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1.678 go-uber-org-multier v1.5.0
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1.680 github.com/jackc/pgio 1.0.0
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1.712 go-autorest-validation 0.3.1
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1.713 pip 3.9.1-7.ph4
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1.714 golang-protobuf-extensions 1.0.2-0.20181231171920-c182affec369
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1.715 github.com/harlow/kinesis-consumer 0.3.1-0.20181230152818-2f58b136fee0
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1.750 api v0.20.2
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1.755 azure-storage-blob-go v0.13.0
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1.756 pyasn1-modules 0.0.5
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1.759 distribution v2.7.1+incompatible
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1.760 client-golang v1.8.0
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1.761 github.com/soniah/gosnmp v1.23.1-0.20200214014533-6d3944030084
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1.762 fwd 1.1.1
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1.763 backoff 2.2.1+incompatible
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1.766 stretchr-testify 1.7.0
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1.768 github.com/azure/azure-storage-queue-go 0.0.0-2018121501428-6ed74e755687
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1.847 go-uber-org-zap v1.10.0
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1.1591 github.com/azure/azure-amqp-common-go/v3 3.0.0
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1.3 github.com/pion/transport 0.12.3

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1.4 go-grpc-prometheus 1.2.0

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1.5 x-oauth2 0.0.0-20190604053449-0f29369cfe45

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1.10 github.com/multiplay/go-ts3 1.0.0

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1.11 zapr v0.3.0

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1.12 grid-x-serial 0.0.0-20191104121038-e24bc9bf6f08

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1.13 jaeger-client-go v2.29.1+incompatible
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1.14 cast v1.3.0
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1.15 github.com/aws/aws-sdk-go-v2/credentials 1.1.5
1.15.1 Available under license :

// 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 received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...
func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
// *
// ProductSKU
//
// * Status
//
// * Fingerprint
//
// * IssuerName
//
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32
// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
  err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
  if err != nil {
    return err
  }
  err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    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
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

    noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}
func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    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.AddClientRequestIMiddleware(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 = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
        return err
    }
}
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

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

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

package grafana

import (   //context
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns ...
    func(*Options)) (*DisassociateLicenseOutput, error)
{
    if params == nil {
        params = &DisassociateLicenseInput{}
    }
    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,

c.addOperationDisassociateLicenseMiddleware)
if err != nil {
    return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {
    // The type of license to remove from the workspace.
    // // This member is required.
    LicenseType types.LicenseType
    // The ID of the workspace to remove the Grafana Enterprise license from.
    // // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {
    // A structure containing information about the workspace.
    // // This member is required.
    Workspace *types.WorkspaceDescription
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddleware(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 = addHTTPSRequestV4Middleware(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",
    }
}

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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"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {
    // Amazon Resource Name (ARN) of the license.
    // // This member is required.
    LicenseArn *string

    // License version.
    Version *string

    noSmithyDocumentSerde
}

type GetLicenseOutput struct {
    // License details.
    License *types.License

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

    noSmithyDocumentSerde
}
func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != 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 = addOpGetLicenseValidationMiddleware(stack); 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)
    return err
}
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.\nNodeId *string

// Signed token.
SignedToken *string

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

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {

return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = 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 = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

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

package licensemanager

import (
    "context"
    awsmiddleware  "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp  "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{ }
    }
    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

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 = 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 = 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 {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return 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"
// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // Beneficiary
    //
    // * ProductSKU
    //
    // * Fingerprint
    //
    // * Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListLicensesOutput struct {
// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

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

noSmithyDocumentSerde

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != 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
    }
}
```go
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
}
```

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

package licensemanager

)

// 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
}
if err != nil {
    return err
}
if 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 = 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
    }
}
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 ...func(*Options))
    if err != nil {
        return err
    }
    return result, metadata
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 = 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 = 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
}
func newServiceMetadataMiddleware_opAssociateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "grafana",
        OperationName: "AssociateLicense",
    }
}

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

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{
        }
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
        c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.

}
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// 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 = 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 = 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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1.16 bean-validation-api 1.1.0.Final

1.17 aerospike-aerospike-client-go 1.27.0

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1.18 mdns v1.0.0

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package cmd

func initBsdClause2() {
    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
                                  "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.
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func initGpl2() {
    Licenses["gpl2"] = License{
        Name:            "GNU General Public License 2.0",
        PossibleMatches: [string{"gpl2", "gnu gpl2", "gplv2"}].
        Header: `
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}
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  Licenses["gpl3"] = License{
    Name:            "GNU General Public License 3.0",
    PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
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package cmd
import (
    "strings"
    "time"

    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license

type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}
    initApache2()
    initMit()
    initBsdClause3()
    initBsdClause2()
    initGpl2()
    initGpl3()
    initLgpl()
    initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header")},
    }

    return Licenses["none"]
}
Text: viper.GetString("license.text")
}

// If user wants to have built-in license, use that.
if viper.IsSet("license") {
    return findLicense(viper.GetString("license"))
}

// If user didn't set any license, use Apache 2.0 by default.
return Licenses["apache"]

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }
    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        er("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }

    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }

    return ""
func initAgpl() {
Licenses["agpl"] = License{
Name: "GNU Affero General Public License",
PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
Header: `This program is free software: you can redistribute it and/or modify
it under the terms of the GNU Affero General Public License as published by
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        Name: "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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func initApache2() {
    Licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
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'`
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package cmd

func initMit() {
    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
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1.20  github.com/tklauser/numcpus 0.2.2
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1.21 tzdata 2018g-0+deb9u1

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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(50) Michael R. Neilly (riscv-* targets)

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DRuntime: Runtime Library for the D Programming Language

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========

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==============================================================================

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Developed by:
LLVM Team

University of Illinois at Urbana-Champaign

http://llvm.org

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<th>Directory</th>
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<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
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</tbody>
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jar/io/grpc/stub/InternalClientCalls.java 
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jar/io/grpc/stub/AbstractBlockingStub.java 
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1.31 zlib 1.2.8.dfsg-5

1.31.1 Available under license:

Found license 'General Public License 2.0' in 'No. PKWare has apparently decided to keep that format proprietary, since 42. The match.asm code in contrib is under the GNU General Public License. GNU GPL?'

1.32 github.com/aws/aws-sdk-go-v2/service/sso 1.1.5
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

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }

    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }

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

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

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

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

    if err = c.addMiddleware(stack, options); err != nil {
        return err
    }

    if err = c.addRequestValidator(stack); err != nil {
        return err
    }

    if err = c.addServiceErrorHandling(stack); err != nil {
        return err
    }

    return nil
}
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 = 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-
# 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

    noSmithyDocumentSerde
}
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
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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

package grafana

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns ...
    func(*Options)) (*DisassociateLicenseOutput, error) {
if params == nil {
    params = &DisassociateLicenseInput{ }
}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil


type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string

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    }

type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

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

    noSmithyDocumentSerde
    }

    func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) { 
        err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
        if err != nil {
            return err
        }

    }
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

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

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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"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {
    // Amazon Resource Name (ARN) of the license.
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string
}

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type GetLicenseOutput struct {
    // License details.
    License *types.License
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde

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  
  }  
  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 = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        return 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
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
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 = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}

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

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }
    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {
    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType
}
// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.

// This member is required.
ClientToken *string

// License entitlements.

// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.

// This member is required.
KeyFingerprint *string

// Product SKU.

// This member is required.
ProductSKU *string

// License beneficiary.

// Node ID.

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}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string
// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

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

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}

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

    if err != nil {
        return err
    }

    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
    }

    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 {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return 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 (
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
        c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // Beneficiary
    //
    // * ProductSKU
    //
    // * Fingerprint
    //
    // * Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string
}
type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

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

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

    if err != nil {
        return err
    }

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

    if err = 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); 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",
    }
}

// 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"
// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    // This member is required.
    SourceVersion *string

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}

type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}
func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPRequestV4Middleware(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
    }
}
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 (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options)) (*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }
    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
}
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

// 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

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
    }
}
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
        c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
type CreateLicenseInput struct {

// License beneficiary.
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Enterments []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

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}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

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

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}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
    return err
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    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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1.49 github.com/jackc/pgpassfile 1.0.0

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1.51 go-control-plane 0.9.9

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1.52 libpng 1.6.36 6
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cpan/bignum/*
cpan/Tie-RefHash/*
cpan/Win32API-File/*
dist/ExtUtils-Install/*
dist/Math-BigInt/*
dist/Math-BigInt-FastCalc/*
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dist/base/*
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dist/Devel-SelfStubber/*
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dist/Env/*
dist/ExtUtils-Command/*
dist/ExtUtils-Manifest/*
dist/I18N-Collate/*
dist/Safe/*
ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBM_File/*
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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1.57 gopkg.in/gorethink/gorethink.v3 3.0.5

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1.58 go-units v0.4.0

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1.59 sync v0.0.0-20190911185100-cd5d95a43a6e

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1.61 kubernetes-klog 2.8.0

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1.62 spf13-cobra v0.0.3

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1.63 httpcomponents-client 4.5.13

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1.74 scram 0.0.0-20180814205039-7eeb5667e42c

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1.76 githubcomgolangprotobuf v1.4.3

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1.77 api v0.19.2

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  jar/org/apache/commons/digester/xmlrules/DigesterRuleParser.java

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jar/org/apache/commons/digester/substitution/package.html
*/opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
jar/org/apache/commons/digester/package.html
*/opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
jar/org/apache/commons/digester/xmlrules/package.html
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jar/org/apache/commons/digester/plugins/package.html
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jar/org/apache/commons/digester/parser/package.html
*/opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-
jar/org/apache/commons/digester/plugins/strategies/package.html

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jar/org/apache/commons/digester/plugins/strategies/FinderFromResource.java

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Clockwork - a scheduler process to replace cron
===============================================

Cron is non-ideal for running scheduled application tasks, especially in an app deployed to multiple machines. [More details.](http://adam.heroku.com/past/2010/4/13/rethinking_cron/)

Clockwork is a lightweight, long-running Ruby process which sits alongside your web processes (Mongrel/Thin) and your worker processes (DJ/Resque/Minion/Stalker) to schedule recurring work at particular times or dates. For example, refreshing feeds on an hourly basis, or send reminder emails on a nightly basis, or generating invoices once a month on the 1st.

Example
-------

Create schedule.rb:

```ruby
require 'clockwork'
include Clockwork

every('10s') { puts 'every 10 seconds' }
every('3m') { puts 'every 3 minutes' }
every('1h') { puts 'once an hour' }
every('1d', :at => '00:00') { puts 'every night at midnight' }
```

Run it with the clockwork binary:
$ clockwork schedule.rb

Or run directly with Ruby:

$ ruby -r schedule -e Clockwork.run

Use with queueing
---------------

Clockwork only makes sense as a place to schedule work to be done, not to do the work. It avoids locking by running as a single process, but this makes it impossible to parallelize. For doing the work, you should be using a job queueing system, such as [Delayed Job](http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job), [Beanstalk/Stalker](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/), [RabbitMQ/Minion](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/), or [Resque](http://github.com/blog/542-introducing-resque). This design allows a simple scheduler process with no locks, but also offers near infinite horizontal scalability.

For example, if you're using Beanstalk/Staker:

    require 'clockwork'
    include Clockwork

    require 'stalker'
    include Stalker

    every('1h') { enqueue('feeds.refresh') }
    every('1d', :at => '01:30') { enqueue('reminders.send') }

Using a queueing system which doesn't require that your full application be loaded is preferable, because the scheduler process can keep a tiny memory footprint. If you're using DJ or Resque, however, you can go ahead and load your full application environment. For example, with DJ/Rails:

    require 'config/boot'
    require 'config/environment'

    require 'clockwork'
    include Clockwork

    every('1h') { Feed.send_later(:refresh) }
    every('1d', :at => '01:30') { Reminder.send_later(:send_reminders) }

In production
--------
Only one scheduler process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

* Machine 1: 3 web (thin start), 3 workers (rake jobs:work), 1 scheduler (clockwork schedule.rb)
* Machine 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your scheduler process running the same way you keep your web and workers running.

Meta
----

Created by Adam Wiggins

Inspired by [rufus-scheduler](http://rufus.rubyforge.org/rufus-scheduler/) and [http://github.com/bvandenbos/resque-scheduler](resque-scheduler)

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http://github.com/adamwiggins/clockwork

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1.101 go-autorest-auth 0.5.6

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  jar/android/annotation/SuppressLint.java
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1.105 runtime v0.19.4

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1.110 x-net v0.0.0-20200707034311-ab3426394381

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1.112 adal v0.9.5

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1.117 zap 1.15.0

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1.123 githubcompmezardgodifflib 1.0.0

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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This package contains a modified version of ca-bundle.crt:

c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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Just configure this file as the SSLCACertificateFile.#

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@(#) SRCFile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.128 client-golang v1.7.1

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1.131 github.com/jackc/chunkreader/v2 2.0.1

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1.133 udev v248

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

1.135 udev 241 7~deb10u8

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LIBGCRYPT Timo Schulz  2001-08-31
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GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22
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Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word2005-04-15
Assigns past and future changes. (new: src/libgcrypt.pc.in, src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S, mpi/hppa1.1/udiv-qrnn.S, mpi/hppa1.1/mpih-mul2.S, mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c, tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c, tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09
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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex. added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang 2006-09-07
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LIBGCRYPT Werner Dittmann 2009-05-20
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GNUPG David Shaw
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LIBGCRYPT Andrey Jivsov 2010-12-09
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Libgcrypt used to be part of GnuPG but has been taken out into its own package on 2000-12-21.

Most of the stuff in mpi has been taken from an old GMP library version by Torbjorn Granlund <tege@noisy.tmg.se>.

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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

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1.140 aws-lambda-go v1.13.3

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1.141 protobuf 1.26.0-rc.1

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package spec
import "testing"
func TestIntegrationLicense(t *testing.T) {
license := License{Name: "the name", URL: "the url"}
const licenseJSON = `{"name":"the name","url":"the url"}`
const licenseYAML = "name: the name\nurl: the url\n"
assertSerializeJSON(t, license, licenseJSON)
assertParsesJSON(t, licenseJSON, license)
}
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// 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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```html
<div
  ...attributes
  class="consul-intention-permission-form"
>
  <FormGroup
    @name={@name}
    as={group}>

    {{yield (hash
      submit=(action 'submit' changeset)
      reset=(action 'reset' changeset)

      isDirty=(and changeset.isValid)
      changeset=changeset
    )}}
  
  <fieldset>
    <div data-property="action">
      <span class="label">
        Should this permission allow the source connect to the destination?
      </span>
      <div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
        {{#each intents as |intent|}}
          <label>
            <span>{{capitalize intent}}</span>
            <input
              type="radio"
              name="Action"
              value={{intent}}
              checked={{if (eq changeset.Action intent) 'checked'}}
              onchange={{action (changeset-set changeset 'Action') value="target.value"}} />
          </label>
        {{/each}}
      </div>
    </div>
    </fieldset>
  
  <fieldset>
    <header>
      <h2>Path</h2>
    </header>
    <div>
      <group.Element
        @name="PathType"
        @type="select"
        as={el}>
```
Path type

```
<el.Label>
  Path type
</el.Label>

<PowerSelect
  @options={{pathTypes}}
  @selected={{pathType}}
  @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|
    {{get pathLabels Type}}
</PowerSelect>
```

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

```
</fieldset>

<fieldset>
  <h2>Methods</h2>
  <div class="type-toggle">
    <span>All methods are applied by default unless specified</span>
    <group.Element
      @name="allMethods"
      as [el]>
      <el.Checkbox
        checked={{if allMethods 'checked'}}
        onchange={{action 'change' 'allMethods' changeset}}
      />
    </group.Element>
  </div>
```

<el.Label>All Methods</el.Label>
</group.Element>
</div>

{{#if shouldShowMethods}}
<div class="checkbox-group" role="group">
{{#each methods as |method|}}
<label class="type-checkbox">
<input
  type="checkbox"
  name="method"
  value={{method}}
  checked={{if (contains method changeset.HTTP.Methods) 'checked'}}
  onchange={{action 'change' 'method' changeset}}
/>

<span>{{method}}</span>
</label>
{{/each}}
</div>
{{/if}}
</fieldset>

<fieldset>
<h2>Headers</h2>

<Consul::Intention::Permission::Header::List
  @items={{changeset-get changeset 'HTTP.Header'}}
  @ondelete={{action 'delete' 'HTTP.Header' changeset}}
as [headerList]>
</Consul::Intention::Permission::Header::List>

<Consul::Intention::Permission::Header::Form
  @onsubmit={{action 'add' 'HTTP.Header' changeset}}
as [headerForm]>
  <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
</Consul::Intention::Permission::Header::Form>

<button
  data-test-add-header
  type="button"
  class="type-submit"
  disabled={{if (not this.headerForm.isDirty) 'disabled'}}
  onclick={{action this.headerForm.submit}}
>
Add[{#if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0)}] another{#/if} header
</button>
<button
type="button"
class="type-cancel"
onclick={ {action this.headerForm.reset} }
>
  Cancel
  </button>
</fieldset>
</FormGroup>
</div>

Notice
@type="info"
as [notice]
<notice.Body>
  <p>
    {{t "components.consul.intention.notice.permissions.body"}}
  </p>
</notice.Body>
<notice.Footer>
  <p>
    <a href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions" target="_blank" rel="noopener noreferrer">
      {{t "components.consul.intention.notice.permissions.footer"}}
    </a>
  </p>
</notice.Footer>
</Notice>

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Protocol Buffers for Go with Gadgets

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The `license` command provides a datacenter-level view of the Consul Enterprise license. This was added in Consul 1.1.0 but Consul 1.10.0 removed the ability to set and reset the license using the CLI. See the [licensing documentation](/docs/enterprise/license/overview) for more information about Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in order to use this command. Requests are forwarded internally to the leader if required, so this can be run from any Consul node in a cluster. See the [ACL Guide](https://learn.hashicorp.com/consul/security-networking/production-acls) for more information.

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

This command has subcommands for managing the Consul Enterprise license. Here are some simple examples, and more detailed examples are available in the subcommands or the documentation.

Install a new license from a file:

```bash
$ consul license put @consul.license
```

Install a new license from stdin:

```bash
$ consul license put -
```

Install a new license from a string:

```bash
$ consul license put "<license blob>"
```

Retrieve the current license:

```bash
$ consul license get
```

Inspect a license:
$ consul license inspect "<path to license file>"

Reset the current license:

$ consul license reset

For more examples, ask for subcommand help or view the documentation.

Subcommands:
- get: Get the active license
- inspect: Inspect a signed license
- put: Puts a new license in the datacenter
- reset: Resets the license in the datacenter

## inspect

This command inspects and validates a license. Just like a Consul agent it can load the license from a file on disk or from the `CONSUL_LICENSE` and `CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [<options>] [<license file>]`

Inspect a license contained in a file:

```
$ consul license inspect consul.hclic
```

Inspect a license loaded from the environment:

```
$ consul license inspect
```

This will look at the CONSUL_LICENSE environment variable first and if not present then we will look for the file specified by the CONSUL_LICENSE_PATH environment variable.

The output looks like this:

```
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
```
License is valid

```
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffec85e-0830-c0822c15f2f
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
```
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation

## get

This command gets the Consul Enterprise license.

Usage: `consul license get [options]`

#### API Options

```
@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'
```

The output looks like this:

```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```

## reset

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid. If the builtin license is invalid, the current one stays active.
Usage: `consul license reset [options]`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  - Automated Backups
  - Automated Upgrades
  - Enhanced Read Scalability
  - Network Segments
  - Redundancy Zone
  - Advanced Network Federation
```

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limitations under the License.

@import '../skin';
@import '../layout';
.consul-intention-permission-list > ul > li {
  @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
  @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
  @extend %pill-500;
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     Header=(component 'anonymous' tagName="header")
     Body=(component 'anonymous')
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<dl class="permission-methods">
<dt>
<Tooltip>
Methods
</Tooltip>
</dt>
<dd>
{{#each item.HTTP.Methods as |item|}}
{{item}}
{{/each}}
</dd>
</dl>

{{#if item.HTTP.Path}}
<dl class="permission-path">
<dt>
<Tooltip>
{{item.HTTP.PathType}}
</Tooltip>
</dt>
<dd>
{{item.HTTP.Path}}
</dd>
</dl>
{{/if}}

{{#each item.HTTP.Header as |item|}}
<dl class="permission-header">
<dt>
<Tooltip>
Header
</Tooltip>
</dt>
<dd>
{{item.Name}} {{route-match item}}
</dd>
</dl>
{{/each}}
</BlockSlot>

{{#if onclick}}
<BlockSlot @name="actions" as |Actions|>
Actions as |Action|
<Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={{true}}>
<BlockSlot @name="label">
Edit
</BlockSlot>
</Action>
</BlockSlot>
{{/if}}
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```start
>>> agl_ed25519-master
>>> airbrake_gobrake_v2-c9d51adc624b5cc4c1bf8de730a09af4878ffe2d
>>> api_compute_v1-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> api_gensupport-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> api_googleapi-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> armon_go-metrics-f303b03b91d770a11a39677f1d355d5a4002bbcb
>>> armon_go-radix-4239b7f77079c7b5d1243b74736304ce8dbbb6f0f2
>>> asaskevich_govalidator-9699ab6b38bee2e02cd3fe8bb99ecf67665395e96
>>> azure_go-ansiterm-70b2c90b260171e829f1ebd7c17600e1185d8db
>>> boltdb_bolt-b514920f8fe20a68f857e5a12c774f385a59ae9f
>>> cenkalu_backoff-b02f2bbee11d7e6a69f7282e1f771b0fe2f65eef3
>>> client9_misspell-b2456ac9e8e9eb4be9d005b6e7adac0357f
>>> codegangsta/inject-33e0a1cb7c019cc3fbee0949a8262a403d30504
>>> codegangsta_cli-master
>>> cpuguy83_go-md2man_md2man-a65fdd4de4d5f7c74868da9b202ac38e1315aaa
>>> d2g_dhcpc4-0e4d429ff0231dce3c6e250b2ed9ff80412584bca
>>> deckarep_golang-set-1f04ff83dfbe9328522993ce71c35890f67554
>>> dustin_go-humanize-259d2a102b871d730e3cd9881a642961a1e486
>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc544e73c31810dd
>>> gizak_termui-798fb9cbe10473ef1886069ca4a2ca6a6676b
>>> go-check_check-20d25e28040501c1d24a7e6a7e447d10e74ec
>>> go-martini/martini-22fa46961aabd2665cf3f1343b146d20028f5071
>>> go-nfs-client-42fca177a36031d648551c751d1da5f55d4f0
>>> godbus_dbus-230e4b23dbfd81c53ea0073f76659d48494ee51
>>> gogo_protobuf_gogoproto-6a92c871a8f5333cf106b2cd93756725808d7bb2b7
>>> gogo_protobuf_proto-6a92c871a8f5333cf106b2cd93756725808d7bb2b7
>>> gogo_protobuf_protoc-gen-gogoscript-6a92c871a8f5333cf106b2cd93756725808d7bb2b7
>>> gogo_protobuf_sortkeys-6a92c871a8f5333cf106b2cd93756725808d7bb2b7
>>> goji/param-d7f49fd7d1ed53fd56e2737a8bb5bbcc7e3d925e2
```
>>> tylerb_graceful-d7d7a205e779a4738d38eda0671fff8bfc965f14
>>> ugorji_go_codec-708a42d246822952f38190a8d8c4e6b16a0e600c
>>> x_crypto_aecm-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_crypto_curve25519-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_crypto_keybox-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_crypto_poly1035-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_crypto_salsa20-salsa-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_crypto_ssh-728b753d0135da6801d45a38e6f43ff55779c5c2
>>> x_net_context-a6577fac2d73be281a500b310739095313165611
>>> x_net_http2-a6577fac2d73be281a500b310739095313165611
>>> x_net_idna-a6577fac2d73be281a500b310739095313165611
>>> x_net_internal_timeseries-a6577fac2d73be281a500b310739095313165611
>>> x_net_lex_httplexer-a6577fac2d73be281a500b310739095313165611
>>> x_net_proxy-a6577fac2d73be281a500b310739095313165611
>>> x_net_trace-a6577fac2d73be281a500b310739095313165611
>>> x_net_websocket-a6577fac2d73be281a500b310739095313165611
>>> x_oauth2-1611bb46e67abe64a71eccc53ae671f1cbbe2b921
>>> x_sync_singleflight-5a06fca2c336a4b2b2fcb4570e28ec47621b2aa2c
>>> x_text_language-f28f36722d5ef2f9655dad3de1f248e3e52ad5ebd
>>> x_text_message-f28f36722d5ef2f9655dad3de1f248e3e52ad5ebd
>>> x_tools_go_ast_astutil-381149a26e58f319ccf04bfebcf71e03a78b868
>>> x_tools_go_GCexportdata-381149a26e58f319ccf04bfebcf71e03a78b868
>>> x_tools_go_GCimporter15-381149a26e58f319ccf04bfebcf71e03a78b868
>>> x_tools_go_Loader-381149a26e58f319ccf04bfebcf71e03a78b868
>>> x_tools Imports-381149a26e58f319ccf04bfebcf71e03a78b868
>>> zenazn/goji-c05078ca81940f8e081bba3dc0e6b86b7f0d93

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>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875fb671b3dec66f8e2f0acc33829c8cb989a38d
>>> hashicorp_memberlist-cef12a58224d55cf26ca99e3d239e2fcb3432a2

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>>> curl-7.59.0-4.ph2
>>> expat-2.2.4-1.ph2
>>> iputils-20151218-4.ph2
>>> krb5-1.16-2.ph2
>>> libarchive-3.3.1-2.ph2
>>> libcap-2.25-7.ph2
>>> libdb-5.3.28-1.ph2
>>> libffi-3.2.1-5.ph2
>>> libmysql-0.6.26-3.ph2
>>> libssh2-1.8.0-1.ph2
>>> libtirpc-1.0.1-8.ph2
>>> linux-pam-1.3.0-1.ph2
>>> lssof-4.89-2.ph2
>>> ncmurses-6.0-14.ph2
>>> openssh-7.5p1-11.ph2
>>> opensssl-1.0.2q-1.ph2
>>> pcres-8.41-1.ph2
>>> popt-1.16-5.ph2
>>> shadow-4.2.1-16.ph2
>>> sqlite-3.22.0-3.ph2
>>> sudo-1.8.20p2-5.ph2
>>> vim-8.0.0533-6.ph2
>>> xz-5.2.3-2.ph2
>>> zlib-1.2.11-1.ph2

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>>> gcc-6.3.0-7.ph2
>>> iproute2-4.10.0-3.ph2
>>> iptables-1.6.1-4.ph2
>>> linux-esx-4.9.154-1.ph2
>>> logrotate-3.11.0-3.ph2
>>> mingetty-1.08-2.ph2
>>> net-tools-1.60-11.ph2
>>> procps-ng-3.3.15-2.ph2
>>> rpm-4.13.0.2-1.ph2
>>> tdnf-1.2.3-6.ph2
>>> util-linux-2.32-1.ph2

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>>> coreutils-8.27-3.ph2
>>> elfutils-0.169-3.ph2
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>>> haveged-1.9.1-4.ph2
>>> readline-7.0-2.ph2

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>>> glibc-2.26-13.ph2
>>> hawkey-2017.1-6.ph2
>>> kmod-24-3.ph2
>>> libgcrypt-1.8.1-2.ph2
>>> libgpg-error-1.27-1.ph2
>>> systemd-233-18.ph2

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>>> glib-2.52.1-3.ph2

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>>> nspr-4.15-1.ph2
>>> nss-3.31.1-1.ph2

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Go support for leveled logs, analogous to https://code.google.com/glog

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google-api-go-client-dfa61ae24628a06502b9c2805d983b57e89399b5/examples/compute.go

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>>> armon_go-metrics-f303b03b91d770a11a39677f1d3b55da4002bbcb

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>>> boltdb_bolt-b514920f8f2e0a68f857e5a12c774f385a59ae9

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>>> cenkalti_backoff-b02f2bbce11d7ea6b97f282ef1771b0fe2f65ef3
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>>> client9_mispell-9a1fc2456ac9e8c9b4cbe9d005b6e7adac0d357f

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>>> codegangsta_cli-master

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868d6a9b202a3c8be315aaa

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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>>> gizak_termui-798ff9cbe4073ef1f88e6069ca4a2e6a6676b

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>>> gogo_protobuf_gogoprotobuf-6a92c871a8f5333cf106b2c0df937567208dbb2b7

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objx - by Mat Ryer and Tyler Bunnell

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tomb - support for clean goroutine termination in Go.

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>>> ugorji_go_codec-708a42d246822952f38190a8d8c4e6b16a0e600c

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+build appengine

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package short

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
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lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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slave/kpropd_rpc.c
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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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SHA-1 in C
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Written by Gary V. Vaughan, 2004

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>>> ncurses-6.0-14.ph2

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-- vile: txtmode file-encoding=utf-8

>>> openssh-7.5p1-11.ph2

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
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chkconfig:   2345 11 89
description: sets up CBQ-based traffic control

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iproute

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extensions\libip6t_HL.c

IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
Based on HW’s ttl target
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iptables-apply

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>>> linux-esx-4.9.154-1.ph2

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Written by David Howells (dhowells@redhat.com)

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Arithmetic Package, Release 2.

Written by John R. Hauser. This work was made possible in part by the
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Street, Berkeley, California 94704. Funding was partially provided by the
National Science Foundation under grant MIP-9311980. The original version
of this code was written as part of a project to build a fixed-point vector
processor in collaboration with the University of California at Berkeley,
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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no) to read /etc/passwd directly so that passwd, chsh and chfn can work on machines that run NIS (previously YP). Changes will not be made to usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
   You should assume a struct passwd has an infinite number of fields, so
   you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but
use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn,
chsh and passwd. _I HAVE_ to read and write /etc/passwd directly. Let
those who say nay be forever silent and think about how getpwnam (and
family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to
stderr, this is a library function and should not print on the screen,
but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
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Python bindings for the libmount library.

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Written by Ondrej Oprala and Karel Zak

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Bison interface for Yacc-like parsers in C


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This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep
track of all alloca-allocated blocks, and reclaim any
that are found to be deeper in the stack than the current
invocation. This heuristic does not reclaim storage as
soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
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This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.

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Heavily modified for GnuPG by Werner Koch

/

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DRBG: Deterministic Random Bits Generator
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CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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Version 3, 29 June 2007

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SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007
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[VIC152GAMS030419]
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---
layout: docs
page_title: Consul-Terraform-Sync Enterprise License
description: >-
   Consul-Terraform-Sync Enterprise License
---

# Consul-Terraform-Sync Enterprise License

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</EnterpriseAlert>

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## Setting the License

Choose one of the following methods (in order of precedence) to set the license:
1. Set the `CONSUL_LICENSE` environment variable to the license string.

```
```shell-session
export CONSUL_LICENSE=<LICENSE_VALUE>
```
```

1. Set the `CONSUL_LICENSE_PATH` environment variable to the path of the file containing the license.

```
```shell-session
export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
```
```

1. Configure the `license_path` option in the configuration file to point to the file containing the license.

```
```hcl
license_path = "<PATH>/<TO>/<FILE>"
```
```

--> **Note**: the [options to set the license and the order of precedence](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) are the same as Consul Enterprise server agents.

Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

### Updating the License

The previous section describes options for [setting the license](#setting-the-license) needed to start running Consul-Terraform-Sync Enterprise. Use the following procedure to update the license when it expires or is near the expiration date:

1. Update the license environment variable or configuration with the new license value or path to the new license file
1. Stop and restart Consul-Terraform-Sync Enterprise

Once Consul-Terraform-Sync Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

## Notification and Termination Behavior

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. Consul-Terraform-Sync Enterprise will cease to function once the termination date has passed.

The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement for complete terms of your grace period.

When approaching expiration and termination, Consul-Terraform-Sync Enterprise will provide notifications in the...
system logs:

<table>
<thead>
<tr>
<th>Time period</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 days before expiration</td>
<td>Warning-level log every 24-hours</td>
</tr>
<tr>
<td>7 days before expiration</td>
<td>Warning-level log every 1 hour</td>
</tr>
<tr>
<td>1 hour before expiration</td>
<td>Warning-level log every 1 minute</td>
</tr>
<tr>
<td>1 day before expiration</td>
<td>Warning-level log every 5 minutes</td>
</tr>
<tr>
<td>At or after expiration (before termination)</td>
<td>Error-level log every 1 minute</td>
</tr>
<tr>
<td>At or after termination</td>
<td>Error-level log and exit</td>
</tr>
</tbody>
</table>

--> **Note**: Notification frequency and [grace period](/docs/enterprise/license/faq#is-there-a-grace-period-when-licenses-expire) behavior is the same as Consul Enterprise.

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@onChange={{action 'change' 'HeaderType' changeset}} as [Type]
  [ [get headerLabels Type]]
</PowerSelect>
</group.Element>

</group.Element
  @name="Name"
  @error={{changeset-get changeset 'error.Name'}}
  as [el]>
<el.Label>Header name</el.Label>
<el.Text
  @value={{changeset-get changeset 'Name'}}
oninput={{action 'change' 'Name' changeset}}
/>n
<State @state={{el.state}} @matches="error">
  <el.Error>
    {{changeset-get changeset 'error.Name.validation'}}
  </el.Error>
</State>
</group.Element>

{{#if shouldShowValueField}}
  <group.Element
    @name="Value"
    @error={{changeset-get changeset 'error.Value'}}
    as [el]>
  <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
  <el.Text
    @value={{changeset-get changeset 'Value'}}
oninput={{action 'change' 'Value' changeset}}
/>n
  <State @state={{el.state}} @matches="error">
    <el.Error>
      {{changeset-get changeset 'error.Value.validation'}}
    </el.Error>
  </State>
  </group.Element>
{{/if}}

</div>
</fieldset>
</FormGroup>
</div>
---
layout: docs
page_title: Consul Enterprise License
description: Consul Enterprise License Overview.
# Consul Enterprise License

## Licensing

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend on which binary is in use, whether the agent is a server, client or snapshot agent and whether ACLs have been enabled for the cluster.

-> **Consul Enterprise 1.10.0 removed temporary licensing.** In previous versions Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also prior to 1.10.0 server agents would automatically propagate the license between themselves. This no longer occurs and the license must be present on each server when they are started.

-> Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

### Binaries with Built In Licenses

If you are downloading Consul from Amazon S3, then the license is included in the binary and you do not need to take further action. This is the most common use case.

In the S3 bucket you will find three Enterprise zip packages. The packages with `+pro` and `+prem` in the name, are the binaries that include the license. The package with `+ent` in the name does not include the license.

When using these binaries no further action is necessary to configure the license.

### Binaries Without Built In Licenses

For Consul Enterprise 1.10.0 or greater, binaries that do not include built in licenses a license must be available at the time the agent starts. For server agents this means that they must either have the `license_path` configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or `CONSUL_LICENSE_PATH` environment variables. Both the configuration item and the `CONSUL_LICENSE_PATH` environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple of these are set the order of precedence is:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Both client agents and the snapshot agent may also be licensed in the very same manner. However to prevent
the need to configure the license on many client agents and snapshot agents those agents have the capability to retrieve the license automatically under specific circumstances.

#### Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn't need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the 
[`start_join`](/docs/agent/options#start_join) or 
[`retry_join`](/docs/agent/options#retry_join) configurations. If those are both unset or no 
`[`agent` token](/docs/agent/options#acl_tokens_agent)` is set then the client agent will immediately shut itself down.

If all preliminary checks pass the client agent will attempt to reach out to any server on its RPC port to request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.

Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

#### Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents, the snapshot agent will shut itself down after being unable to retrieve the license for 5 minutes.

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# https://developers.google.com/open-source/cla/corporate
#
# Names should be added to this file as:
# Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spiermar@gmail.com>
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package api
import (
    "io/ioutil"
    "strings"
    "time"
)

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"

    // The product the license is valid for
    Product string `json:"product"

    // License Specific Flags
    Flags map[string]interface{} `json:"flags"

    // Modules is a list of the licensed enterprise modules
    Modules []string `json:"modules"

    // List of features enabled by the license
    Features []string `json:"features"
}

type LicenseReply struct {
    Valid    bool
    License  *License
    Warnings []string
}
func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer closeResponseBody(resp)
    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }
    return string(data), nil
}

// LicenseReset will reset the license to the built-in one if it is still valid.
// If the built-in license is invalid, the current license stays active.
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}
// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

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# Notice

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

```hbs
<Notice
  @type={{this.type}}
>
  <notice.Header>
    <h3>Header</h3>
  </notice.Header>

  <notice.Body>
    <p>
      Body
    </p>
  </notice.Body>

  <notice.Footer>
    <p>
      Footer link</p>
  </notice.Footer>
</Notice>

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  <figcaption>Provide a widget to change the @type</figcaption>
  <select
    onchange={{action (mut this.type) value="target.value"}}
  >
    <option>info</option>
    <option>success</option>
    <option>warning</option>
    <option>error</option>
  </select>
</figure>
```

## Arguments

<table>
<thead>
<tr>
<th>Argument/Attribute</th>
<th>Type</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>type</code></td>
<td>String</td>
<td><code>info</code></td>
<td>Type of notice [info</td>
</tr>
</tbody>
</table>

## See

- [Template Source Code](./index.hbs)
---

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%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
    @extend %notice;
}

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

layout: docs
page_title: Consul Enterprise License FAQ
description: Frequently Asked Questions pertaining to Consul Enterprise Licensing.
---

# Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0. Consul Enterprise automatically loads Consul licenses when the server agent starts.

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

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.
If the license is missing, invalid, or expired, the server will immediately exit.
This check is part of the server boot-up process.
In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol. This will no longer work since each server must be able to find a valid license during the startup process.

## Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release. During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token. The upgrade process varies if ACLs are enabled or disabled in the cluster. Refer to the instructions on [upgrading to 1.10.x](https://www.consul.io/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

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

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

## Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](https://www.consul.io/docs/enterprise/upgrades)
- [Consul License Documentation](https://www.consul.io/docs/enterprise/license)
- [License configuration values documentation](https://www.consul.io/docs/enterprise/license/overview#binaries-without-built-in-licenses)
- [Install a HashiCorp Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise)

## Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise. This impacts customers that have an enterprise binary (evaluation or non-evaluation licenses) downloaded from https://releases.hashicorp.com. The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

## Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0, a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up. The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.
## Q: What is the impact on evaluation licenses due to this change?

The 6-hour trial period for evaluation licenses will be deprecated as of Consul Enterprise 1.10.0. This means that any clusters deployed with Consul 1.10.0+ent binaries will need to have a valid license on the disk (auto-loaded) or as an environment variable. Failure to provide a valid license key will result in the Consul server agent not starting.

## Q: Is there a grace period when licenses expire?

A license includes an `expiration_date` and a `termination_date`. An enterprise binary will cease to function once the `termination_date` has passed. Licenses will now have a 24 hrs grace period. The grace period is the time between license expiry until the time it terminates. As Consul Enterprise approaches the expiration date, warnings will be issued in the system logs.

## Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients. Please review the [upgrade requirements](faq#q-what-are-the-upgrade-requirements) documentation.

## Q: Does this affect snapshot agents?

Same behavior as Consul clients. See answer for [Does this affect client agents?](faq#q-does-this-affect-client-agents)

## Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit. Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `start_join/retry_join` addresses.
- The start/retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `start_join/retry_join` addresses, the start/retry join addresses are addresses of the Consul servers.

## Q: Where can users get a trial license for Consul Enterprise?

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

## Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a
## Q: Will this impact HCP Consul?

This will not impact HCP Consul.

## Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for evaluation licenses (non-evaluation licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

## Q: What are the scenarios that a customer must plan for because of these changes?

New Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy.
This valid license must be on-disk (auto-loaded) or as an environment variable.
Please see the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

## Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

### VM

1. Run `consul license get -signed` to extract the license from their running cluster. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/docs/upgrading).

### Kubernetes

**NOTE:** If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, then 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. Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise).

1. Follow the [Kubernetes Upgrade Docs](/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

~~> **WARNING:** If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise) for more details.

## Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

### VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.

1. Store the license in a secure location on disk.

1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.

   - Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

1. Follow the Consul upgrade [documentation](/docs/k8s/upgrading).

### Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.

1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.

   - Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

1. Proceed with the `helm` [upgrade instructions](/docs/k8s/upgrade)

## Q: Will Consul downgrades/rollbacks work?

When downgrading to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

## Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

~~> Verify that you meet the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:
The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example. Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader). The `consul license put` operation will fail due to being removed from 1.10.0. This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node not running 1.10.0+. This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

## Q: Any impacts to Consul Kubernetes?

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

```yaml
---
server:
  enterpriseLicense:
    enableLicenseAutoload: false
---
```

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---

layout: api
page_title: License - Operator - HTTP API
description: |
The /operator/license endpoint allows for retrieving the Consul Enterprise License.
# License - Operator HTTP API

The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/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/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
</tr>
</tbody>
</table>

### Parameters

- `'dc` `(string: "")` - Specifies the datacenter whose license should be retrieved. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```shell-session
$ curl \n  http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffce-0830-c0822c1f5f2b",
    ...}
```
"installation_id": "*",
"issue_time": "2018-05-21T20:03:35.911567355Z",
"start_time": "2018-05-21T04:00:00Z",
"expiration_time": "2019-05-22T03:59:59.999Z",
"product": "consul",
"flags": {
  "package": "premium"
},
"features": [
  "Automated Backups",
  "Automated Upgrades",
  "Enhanced Read Scalability",
  "Network Segments",
  "Redundancy Zone",
  "Advanced Network Federation"
],
"temporary": false
],
"Warnings": []
}
```

## Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/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/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request.
This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```shell-session
$ curl --request PUT --data @consul.license http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
```

### Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with
the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

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

The table below shows this endpoint's support for blocking queries, consistency modes, agent caching, and required ACLs:

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```shell-session
$ curl --request DELETE http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {},
    "package": "premium"
  }
}
```
```
{
    "features": [
        "Automated Backups",
        "Automated Upgrades",
        "Enhanced Read Scalability",
        "Network Segments",
        "Redundancy Zone",
        "Advanced Network Federation"
    ],
    "temporary": false
}

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

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{{#if (gt items.length 0)}}
<ListCollection
    class="consul-intention-permission-header-list"
    @items={{items}}
    @scroll="native"
    @cellHeight={{42}}
    as |item|>
    <BlockSlot @name="details">
        <dl>
            <dt>
                <Tooltip>
                    Header
                </Tooltip>
            </dt>
            <dd>
                {{item.Name}} {{route-match item}}
            </dd>
        </dl>
    </BlockSlot>
    <BlockSlot @name="actions" as |Actions|>
        <Actions as |Action|>
            <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
                <BlockSlot @name="label">
                    Delete
                </BlockSlot>
            </Action>
            <Confirmation class="warning">
                <BlockSlot @name="header">
                    Confirm delete
                </BlockSlot>
                <BlockSlot @name="body">
                    
                </BlockSlot>
            </Confirmation>
        </Actions>
    </BlockSlot>
{{/if}}
Are you sure you want to delete this header?

</Confirmation>
</Action>
</Actions>
</ListCollection>

```css
.consul-intention-permission-list {
  dt::before {
    @extend %with-glyph-icon;
  }
  dl.permission-methods dt::before {
    content: 'M';
  }
  dl.permission-path dt::before {
    content: 'P';
  }
  dl.permission-header dt::before {
    content: 'H';
  }
}
```

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Portions of the client are based on code at:
https://github.com/google/go-github/ and
https://github.com/digitalocean/godo

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 */

/**
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package datatypes

// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"`

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"`

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"`

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"`

    // no documentation yet
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"`
// no documentation yet
WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"
```
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"
`

    // no documentation yet
    KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"
```

    // no documentation yet
    Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"
`
}

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1.159 retroweaver 2.0.3

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1.160 fsnotify 1.4.9

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1.161 nghttp2 1.36.0-2+deb10u1

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.163 time v0.0.0-20200630173020-3af7569d3a1e

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1.164 logfmt v0.5.1

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1.165 libldap-common 2.4.44+dfsg-5+deb9u8

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Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

Stephen,

"There is no restriction on modifications and derived works" on the work I
did for the openldap server as long as this is consistent with the openldap
license. Please forward this email to Kurt so he does the appropriate
changes to the files to reflect this.
Regards, Juan
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MA
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The following is additional information from Mark Adamson on how this license
is to be interpreted:
-----
Local-Date: Thu, 05 Jun 2003 16:53:32 -0400
Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

Hi Stephen,

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-Mark
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---
* To: Stephen Frost <sfrost@snowman.net>
* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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Regards, Kurt

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1.166 go.uber.org/atomi 1.6.0

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1.167 hashicorp-uuid 1.0.2

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1.168 errors v0.8.1

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1.169 pcre 10.32-5

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1.170 protobuf v1.25.0
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1.171 aristanetworks-glog 0.0.0-20191112221043-67e8567f59f3

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1.172 groupcache v0.0.0-20191227052852-215e87163ea7

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1.173 gopkg.in-inf 0.9.1

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 */
/*
package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <p>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</p>
 * <p>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</p>
 * @xsl.usage general
 */
public class Version
{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * <code>"<B>Xalan</B> <B>Java</B> v.r[.dd] <B>D</B>nn"</code>.
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */
public static String getVersion()
{
    return getProduct() + " \+getImplementationLanguage() +" +
        getMajorVersionNum() + " ." +
        getReleaseVersionNum() + " ." +
        (getDevelopmentVersionNum() > 0) ?
            ("D" + getDevelopmentVersionNum()) : ("" +
                getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct() {
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage() {
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum() {
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum() {
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
* fixes for defects reported. It maintains compatibility
* with the release and contains no API changes.
* When missing, it designates the final and complete
* development drop for a release.
*/
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}
/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

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*/
/**
 * This is a special exception that is used to stop parsing when
 * search for an element. For instance, when searching for xml:stylesheet
 * PIs, it is used to stop the parse once the document element is found.
 * @see StylesheetPIHandler
 * @xsl.usage internal
 */

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package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.</P>
 * @xsl.usage general
 * /
 * public final class Version
 {

 /**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * <CODE>"<B>Serializer</B> <B>Java</B> v.<cr>,dd| <B>D</B>nn"]</CODE>.
 * 
 * Futurework: have this read version info from jar manifest.
 * 
 * @return String denoting our current version
 * /
 * public static String getVersion()
 {
 return getProduct()+" "+getImplementationLanguage()+" 
 +getMajorVersionNum()+"."+getReleaseVersionNum()+"." 
 +( (getDevelopmentVersionNum() > 0) ? 
 ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum())");

 */
*/

*/

* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[]) {
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct() {
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage() {
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum() {
    return @version.VERSION@;
}

/**
 * Release Number.
 */
* Release number. This changes when:
  * - a new set of functionality is to be added, eg,
  * - implementation of a new W3C specification.
  * - API or behaviour change.
  * - its designated as a reference release.
*/

public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */

public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.

 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.

 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */

public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return @version.DEVELOPER@;
    }

return Integer.parseInt("@version.DEVELOPER@"));
} catch (NumberFormatException nfe) {
    return 0;
}
}

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src
No license file was found, but licenses were detected in source scan.

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 */

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java
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*/

// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLStream.java

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*/

// Proprietary
/** The 'document-location()' id (Proprietary). */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/FunctionTable.java

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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Encodings.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Makefile.inc
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_html.properties

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 */

/*
 * $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
 */
package org.apache.xalan.xslt.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xalan.xslt.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xslt.runtime.Operators;
import org.apache.xalan.xslt.compiler.util.ErrorMsg;

parser code {
  /**
   * Used by function calls with no args.
   */
  static public final Vector EmptyArgs = new Vector(0);

  /**
   * Reference to non-existing variable.
   */
  static public final VariableRef DummyVarRef = null;

  /**
   * Reference to the Parser class.
   */
  private Parser _parser;
  private XSLTC _xsltc;

  /**
   * String representation of the expression being parsed.
   */
  private String _expression;

  /**
   * Line number where this expression/pattern was declared.
   */
  private int _lineNumber = 0;

  /**
* Reference to the symbol table.
*/
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xsltc = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "*[namespace-uri() = 'uri']" and
 * "*[namespace-uri() = 'uri']:@*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "*[namespace-uri() = 'uri']:@*", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */
public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
    int nodeType;
if (test == null) {  // "*"
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
    (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

    return new StepPattern(axis, nodeType, predicates);
} 
else if (test instanceof Integer) {
    nodeType = ((Integer) test).intValue();

    return new StepPattern(axis, nodeType, predicates);
} 
else { 
    QName name = (QName)test;
    boolean setPriority = false;

    if (axis == Axis.NAMESPACE) { 
        nodeType = (name.toString().equals("*")) ? -1
        : _xsltc.registerNamespacePrefix(name);;
    } 
    else {
        final String uri = name.getNamespace();
        final String local = name.getLocalPart();
        final QName namespace_uri =
        _parser.getQNameIgnoreDefaultNs("namespace-uri");

        // Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
        if (uri != null && (local.equals("*"))) {
            if (predicates == null) {
                predicates = new Vector(2);
            } 
            else {
                final String uri = name.getNamespace();
                final String local = name.getLocalPart();
                final QName namespace_uri =
                _parser.getQNameIgnoreDefaultNs("namespace-uri");

                // Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
                if (uri != null && (local.equals("*"))) {
                    if (predicates == null) {
                        predicates = new Vector(2);
                    } 
                    else { 
                        predicates.add(
                            new Predicate( 
                                new EqualityExpr(Operators.EQ,
                                new NamespaceUriCall(namespace_uri),
                                new LiteralExpr(uri))));
                    }
                
                if (local.equals("*")) {
                    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
                    NodeTest.ELEMENT;
                } 
                else if (local.equals("@*")) {
                    nodeType = NodeTest.ATTRIBUTE;
                } 
            }
        }
    }

else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xslt.registerAttribute(name) : _xslt.registerElement(name);
}
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

// Set priority for case prefix:* and prefix:@* (no predicates)
if (setPriority) {
    result.setPriority(-0.25);
}

return result;
}
}

public int findNodeType(int axis, Object test) {
if (test == null) {  // *
    return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    } else if (test instanceof Integer) {
        return ((Integer)test).intValue();
    } else {
QName name = (QName)test;

    if (axis == Axis.NAMESPACE) {
        return (name.toString().equals("*") ? -1 :
            _xslt.registerNamespacePrefix(name);
    } else if (name.getNamespace() == null) {
        final String local = name.getLocalPart();

        if (local.equals("*")) {
            return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
                NodeTest.ELEMENT;
        } else if (local.equals("@*")) {
            return NodeTest.ATTRIBUTE;
        }
        }
    return (axis == Axis.ATTRIBUTE) ? _xslt.registerAttribute(name) : _xslt.registerElement(name);
/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 *
 * @param lineNumber Line where the current expression is defined.
 * @param external   Set to <tt>true</tt> if this expression is
 *                   compiled in a separate module.
 *
 */

public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
                                     lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}

/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 *
 */

final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
    _parser.reportError(Constants.ERROR, error);
}

public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
                                     message, info);
    _parser.reportError(Constants.ERROR, err);
}


_expression);
_parser.reportError(Paths.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
if (rlp instanceof Step) {
    return new ParentLocationPath(step, (Step) rlp);
} else if (rlp instanceof ParentLocationPath) {
    final ParentLocationPath plp = (ParentLocationPath) rlp;
    final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
    return new ParentLocationPath(newrlp, plp.getStep());
} else {
    addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
    return rlp;
}
}

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}

:}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;
non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLOM;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
    [: RESULT = pattern; :]

    | EXPRESSION Expr:expr
    [: RESULT = expr; :];
/* --------------------------- Patterns ----------------------------------- */

Pattern ::= LocationPathPattern:lpp
{ RESULT = lpp; : }

| LocationPathPattern:lpp VBAR Pattern:p
{ RESULT = new AlternativePattern(lpp, p); : }

LocationPathPattern ::= SLASH
{ RESULT = new AbsolutePathPattern(null); : }

| SLASH RelativePathPattern:rpp
{ RESULT = new AbsolutePathPattern(rpp); : }

| IdKeyPattern:ikp
{ RESULT = ikp; : }

| IdKeyPattern:ikp SLASH RelativePathPattern:rpp
{ RESULT = new ParentPattern(ikp, rpp); : }

| IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
{ RESULT = new AncestorPattern(ikp, rpp); : }

| DSLASH RelativePathPattern:rpp
{ RESULT = new AncestorPattern(rpp); : }

| RelativePathPattern:rpp
{ RESULT = rpp; : }

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
{ RESULT = new IdPattern(l);
  parser.setHasIdCall(true);
  : }

| KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
{ RESULT = new KeyPattern(l1, l2); : }

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
{ RESULT = new ProcessingInstructionPattern(l); : }

RelativePathPattern ::= StepPattern:sp
{ RESULT = sp; : }

| StepPattern:sp SLASH RelativePathPattern:rpp
{ RESULT = new ParentPattern(sp, rpp); : }

| StepPattern:sp DSLASH RelativePathPattern:rpp
{ RESULT = new AncestorPattern(sp, rpp); : }
StepPattern ::= NodeTestPattern:nt
    {: RESULT = parser.createStepPattern(Axis.CHILD, nt, null); :}

| NodeTestPattern:nt Predicates:pp
    {: RESULT = parser.createStepPattern(Axis.CHILD, nt, pp); :}

| ProcessingInstructionPattern:pip
    {: RESULT = pip; :}

| ProcessingInstructionPattern:pip Predicates:pp
    {: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
    {: RESULT = parser.createStepPattern(axis.intValue(), nt, null); :}

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt Predicates:pp
    {: RESULT = parser.createStepPattern(axis.intValue(), nt, pp); :}

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
    {: RESULT = pip; // TODO: report error if axis is attribute :}

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip Predicates:pp
    {: // TODO: report error if axis is attribute
        RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
    :};

NodeTestPattern ::= NameTestPattern:nt
    {: RESULT = nt; :}

| NODE
    {: RESULT = new Integer(NodeTest.ANODE); :}

| TEXT
    {: RESULT = new Integer(NodeTest.TEXT); :}
COMMENT
{: RESULT = new Integer(NodeTest.COMMENT); :}

PI
{: RESULT = new Integer(NodeTest.PI); :};

NameTestPattern ::= STAR
{: RESULT = null; :}

QName:qn
{: RESULT = qn; :};

ChildOrAttributeAxisSpecifier ::= ATSIGN
{: RESULT = new Integer(Axis.ATTRIBUTE); :}

CHILD DCOLON
{: RESULT = new Integer(Axis.CHILD); :}

ATTRIBUTE DCOLON
{: RESULT = new Integer(Axis.ATTRIBUTE); :};

Predicates ::= Predicate:p
{: Vector temp = new Vector(); temp.addElement(p); RESULT = temp; :}

Predicate:p Predicates:pp
{: pp.insertElementAt(p, 0); RESULT = pp; :};

Predicate ::= LBRACK Expr:e RBRACK
{: RESULT = new Predicate(e); :};

Expr ::= OrExpr:ex
{: RESULT = ex; :};

OrExpr ::= AndExpr:ae
{: RESULT = ae; :}

OrExpr:oe OR AndExpr:ae
{: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};
AndExpr ::= EqualityExpr:e
\{ \texttt{RESULT} = e; \}

| AndExpr:ae AND EqualityExpr:ee
\{ \texttt{RESULT} = \texttt{new LogicalExpr(LogicalExpr.AND, ae, ee);} \}

EqualityExpr ::= RelationalExpr:re
\{ \texttt{RESULT} = re; \}

| EqualityExpr:ee EQ RelationalExpr:re
\{ \texttt{RESULT} = \texttt{new EqualityExpr(Operators.EQ, ee, re);} \}

| EqualityExpr:ee NE RelationalExpr:re
\{ \texttt{RESULT} = \texttt{new EqualityExpr(Operators.NE, ee, re);} \}

RelationalExpr ::= AdditiveExpr:ae
\{ \texttt{RESULT} = ae; \}

| RelationalExpr:re LT AdditiveExpr:ae
\{ \texttt{RESULT} = \texttt{new RelationalExpr(Operators.LT, re, ae);} \}

| RelationalExpr:re GT AdditiveExpr:ae
\{ \texttt{RESULT} = \texttt{new RelationalExpr(Operators.GT, re, ae);} \}

| RelationalExpr:re LE AdditiveExpr:ae
\{ \texttt{RESULT} = \texttt{new RelationalExpr(Operators.LE, re, ae);} \}

| RelationalExpr:re GE AdditiveExpr:ae
\{ \texttt{RESULT} = \texttt{new RelationalExpr(Operators.GE, re, ae);} \}

AdditiveExpr ::= MultiplicativeExpr:me
\{ \texttt{RESULT} = me; \}

| AdditiveExpr:ae PLUS MultiplicativeExpr:me
\{ \texttt{RESULT} = \texttt{new BinOpExpr(BinOpExpr.PLUS, ae, me);} \}

| AdditiveExpr:ae MINUS MultiplicativeExpr:me
\{ \texttt{RESULT} = \texttt{new BinOpExpr(BinOpExpr.MINUS, ae, me);} \}

MultiplicativeExpr ::= UnaryExpr:ue
\{ \texttt{RESULT} = ue; \}

| MultiplicativeExpr:me MULT UnaryExpr:ue
\{ \texttt{RESULT} = \texttt{new BinOpExpr(BinOpExpr.TIMES, me, ue);} \}

| MultiplicativeExpr:me DIV UnaryExpr:ue
\{ \texttt{RESULT} = \texttt{new BinOpExpr(BinOpExpr.DIV, me, ue);} \}
MultiplicativeExpr:me MOD UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};

UnaryExpr ::= UnionExpr:ue
{: RESULT = ue; :}

MINUS UnaryExpr:ue
{: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe
{: RESULT = pe; :}

PathExpr:pe VBAR UnionExpr:rest
{: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp
{: RESULT = lp; :}

FilterExpr:fexp
{: RESULT = fexp; :}

FilterExpr:fexp SLASH RelativeLocationPath:rlp
{: RESULT = new FilterParentPath(fexp, rlp); :}

FilterExpr:fexp DSLASH RelativeLocationPath:rlp
{: // Expand '///' into '/descendant-or-self::node()/ or // into /descendant-or-self::*/
   int nodeType = DOM.NO_TYPE;
   if (rlp instanceof Step &&
       parser.isElementAxis(((Step) rlp).getAxis()))
   {
       nodeType = DTM.ELEMENT_NODE;
   }
   final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
   FilterParentPath fpp = new FilterParentPath(fexp, step);
   fpp = new FilterParentPath(fpp, rlp);
   if (fexp instanceof KeyCall == false) {
       fpp.setDescendantAxis();
   }
   RESULT = fpp;
   :};

LocationPath ::= RelativeLocationPath:rlp
{: RESULT = rlp; :}
AbsoluteLocationPath ::=
\{ : RESULT = alp; : \};

RelativeLocationPath ::= Step:step
\{ : RESULT = step; : \}

| RelativeLocationPath:rlp SLASH Step:step
\{ :
  if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
    RESULT = step;       // Remove ‘./’ from the middle
  }
  else if (((Step) step).isAbbreviatedDot()) {
    RESULT = rlp;        // Remove ‘/.’ from the end
  }
  else {
    RESULT =
      new ParentLocationPath((RelativeLocationPath) rlp, step);
  }
\}

| AbbreviatedRelativeLocationPath:arlp
\{ : RESULT = arlp; : \};

AbsoluteLocationPath ::= SLASH
\{ : RESULT = new AbsoluteLocationPath(); : \}

| SLASH RelativeLocationPath:rlp
\{ : RESULT = new AbsoluteLocationPath(rlp); : \}

| AbbreviatedAbsoluteLocationPath:aalp
\{ : RESULT = aalp; : \};

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
\{ :
  final Step right = (Step)step;
  final int  axis   = right.GetAxis();
  final int  type   = right.getNodeType();
  final Vector predicates = right.getPredicates();

  if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
    // Compress ‘//child:E’ into ‘descendant::E’ - if possible
    if (predicates == null) {
      right.setAxis(Axis.DESCENDANT);
      if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
        RESULT = right;
      }
      else {
        // Expand ‘rlp/child::E’ into ‘rlp/descendant::E’
RelativeLocationPath left = (RelativeLocationPath)rlp;
RESULT = new ParentLocationPath(left, right);
}
else {
    // Expand './step' -> 'descendant-or-self::*/step'
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
        Step left = new Step(Axis.DESCENDANTORSELF,
DTM.ELEMENT_NODE, null);
        RESULT = new ParentLocationPath(left, right);
    }
    else {
        // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        Step mid = new Step(Axis.DESCENDANTORSELF,
DTM.ELEMENT_NODE, null);
        ParentLocationPath ppl = new ParentLocationPath(mid, right);
        RESULT = new ParentLocationPath(left, ppl);
    }
}
else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
} else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
};

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
{:
    //
    // Expand './' into '/descendant-or-self::node()/'
    // or
    // into /descendant-or-self::*/
    //
    int nodeType = DOM.NO_TYPE;
    if (rlp instanceof Step &&
parser.isElementAxis(((Step) rlp).getAxis()))
{
    nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
RESULT = new AbsoluteLocationPath(parser.insertStep(step,
(RelativeLocationPath) rlp));
};

Step ::= NodeTest:ntest
{: 
    if (ntest instanceof Step) {
        RESULT = (Step)ntest;
    }
    else {
        RESULT = new Step(Axis.CHILD, 
                        parser.findNodeType(Axis.CHILD, ntest),
                        null);
    }
};

| NodeTest:ntest Predicates:pp
{: 
    if (ntest instanceof Step) {
        Step step = (Step)ntest;
        step.addPredicates(pp);
        RESULT = (Step)ntest;
    }
    else {
        RESULT = new Step(Axis.CHILD, 
                        parser.findNodeType(Axis.CHILD, ntest), pp);
    }
};

| AxisSpecifier:axis NodeTest:ntest Predicates:pp
{: RESULT = new Step(axis.intValue(), 
                        parser.findNodeType(axis.intValue(), ntest), pp);
};

| AxisSpecifier:axis NodeTest:ntest
{: RESULT = new Step(axis.intValue(), 
                        parser.findNodeType(axis.intValue(), ntest), null);
};

| AbbreviatedStep:abbrev
{: RESULT = abbrev; :};
AxisSpecifier ::= AxisName:an DCOLON
    { : RESULT = an; : }

    | ATSIGN
    { : RESULT = new Integer(Axis.ATTRIBUTE); : }

AxisName ::= ANCESTOR
    { : RESULT = new Integer(Axis.ANCESTOR); : }

    | ANCESTORORSELF
    { : RESULT = new Integer(Axis.ANCESTORORSELF); : }

    | ATTRIBUTE
    { : RESULT = new Integer(Axis.ATTRIBUTE); : }

    | CHILD
    { : RESULT = new Integer(Axis.CHILD); : }

    | DESCENDANT
    { : RESULT = new Integer(Axis.DESCEDANT); : }

    | DESCENDANTORSELF
    { : RESULT = new Integer(Axis.DESCEDANTORSELF); : }

    | FOLLOWING
    { : RESULT = new Integer(Axis.FOLLOWING); : }

    | FOLLOWINGSIBLING
    { : RESULT = new Integer(Axis.FOLLOWINGSIBLING); : }

    | NAMESPACE
    { : RESULT = new Integer(Axis.NAMESPACE); : }

    | PARENT
    { : RESULT = new Integer(Axis.PARENT); : }

    | PRECEDING
    { : RESULT = new Integer(Axis.PRECEDING); : }

    | PRECEDINGSIBLING
    { : RESULT = new Integer(Axis.PRECEDINGSIBLING); : }

    | SELF
    { : RESULT = new Integer(Axis.SELF); : ; }

AbbreviatedStep ::= DOT
    { : RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); : }

Open Source Used In kASA v1.5 1864
FilterExpr ::= PrimaryExpr:primary
{: RESULT = primary; :}

| PrimaryExpr:primary Predicates:pp
{: RESULT = new FilterExpr(primary, pp); :};

PrimaryExpr ::= VariableReference:vr
{: RESULT = vr; :}

| LPAREN Expr:ex RPAREN
{: RESULT = ex; :}

| Literal:string
{: /*
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(‘:’);

if (index > 0) {
	final String prefix = string.substring(0, index);
	namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
	: new LiteralExpr(string, namespace);
}

| INT:num
{: 
long value = num.longValue();
if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
RESULT = new RealExpr(value);
}
else {
if (num.doubleValue() == -0)
RESULT = new RealExpr(num.doubleValue());
else if (num.intValue() == 0)
RESULT = new IntExpr(num.intValue());
else if (num.doubleValue() == 0.0)
RESULT = new RealExpr(num.doubleValue());
else {
RESULT = new RealExpr(value);
}
else {
RESULT = new RealExpr(value);
}
else {
RESULT ...

/*
else
    RESULT = new IntExpr(num.intValue());

|

| REAL:num
| : RESULT = new RealExpr(num.doubleValue()); |

| FunctionCall:fc
| : RESULT = fc; |

VariableReference ::= DOLLAR VariableName:varName
|
| // An empty qname prefix for a variable or parameter reference
| // should map to the null namespace and not the default URI.
| SyntaxTreeNode node = parser.lookupName(varName);

if (node != null) {
    if (node instanceof Variable) {
        RESULT = new VariableRef((Variable)node);
    } else if (node instanceof Param) {
        RESULT = new ParameterRef((Param)node);
    } else {
        RESULT = new UnresolvedRef(varName);
    }
}

if (node == null) {
    RESULT = new UnresolvedRef(varName);
}

FunctionCall ::= FunctionName:fname LPAREN RPAREN
|
| if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
|     RESULT = new CurrentCall(fname);
| } else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
|     RESULT = new NumberCall(fname, parser.EmptyArgs);
| } else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
|     RESULT = new StringCall(fname, parser.EmptyArgs);
| } else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
|     RESULT = new ConcatCall(fname, parser.EmptyArgs);
|
else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
}
else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
    RESULT = new BooleanExpr(false);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN |
|::
    if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
        parser.setMultiDocument(true);
        RESULT = new DocumentCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
        RESULT = new StringCall(fname, argl);
    }
else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}

else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(Constatns.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
} else {
    RESULT = new FunctionCall(fname, argl);
}
};

NonemptyArgumentList ::= Argument:arg
{:
    Vector temp = new Vector();
    temp.addElement(arg);
    RESULT = temp;
:}

| Argument:arg COMMA NonemptyArgumentList:argl
{: argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
{: 
    RESULT = fname;
:};

VariableName ::= QName:vname
{: 
    RESULT = vname;
:};

Argument ::= Expr:ex
{: RESULT = ex; :};

NodeTest ::= NameTest:nt
{: RESULT = nt; :}
| NODE
{}: RESULT = new Integer(NodeTest.ANODE); :
|
| TEXT
{}: RESULT = new Integer(NodeTest.TEXT); :
|
| COMMENT
{}: RESULT = new Integer(NodeTest.COMMENT); :
|
| PIPARAM LPAREN Literal:l RPAREN
{}:
  QName name = parser.getQNameIgnoreDefaultNs("name");
  Expression exp = new EqualityExpr(Operators.EQ,
    new NameCall(name),
    new LiteralExpr(l));
  Vector predicates = new Vector();
  predicates.addElement(new Predicate(exp));
  RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
|
| PI
{}: RESULT = new Integer(NodeTest.PI); :
|
NameTest ::= STAR
{}: RESULT = null; :
| QName:qn
{}: RESULT = qn; :
|
QName ::= QName:qname
{}: RESULT = parser.getQNameIgnoreDefaultNs(qname); :
|
| DIV
{}: RESULT = parser.getQNameIgnoreDefaultNs("div"); :
|
| MOD
{}: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :
|
| KEY
{}: RESULT = parser.getQNameIgnoreDefaultNs("key"); :
|
| ANCESTOR
{}: RESULT = parser.getQNameIgnoreDefaultNs("child"); :
|
| ANCESTORORSELF
{}: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :}
ATTRIBUTE
{: RESULT = parser.getQNameIgnoreDefaultNs("attribute"); :}

CHILD
{: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

DESCENDANT
{: RESULT = parser.getQNameIgnoreDefaultNs("descendant"); :}

DESCENDANTORSELF
{: RESULT = parser.getQNameIgnoreDefaultNs("descendant-or-self"); :}

FOLLOWING
{: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}

FOLLOWINGSIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

NAMESPACE
{: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

PARENT
{: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

PRECEDING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

PRECEDINGSIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}

SELF
{: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}

ID
{: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup
No license file was found, but licenses were detected in source scan.

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*/

// is found, then throw a special exception in order to terminate

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java

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*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java

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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncDoclocation.java
No license file was found, but licenses were detected in source scan.

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* limitations under the License.
*/
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
* */

package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;
%%
cup
%unicode
%class XPathLexer
static boolean isWhitespace(int c) {
    return (c == ' ' || c == '	' || c == '' || c == '
' || c == '');
}

/**
 * If symbol is not followed by '::' or '(', then treat it as a
 * name instead of an axis or function (Jira-1912).
 */
Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    // Peek in the input buffer without changing the internal state
    int index = yy_buffer_index;
    // Skip whitespace
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
        index++;
    }
    // If end of buffer, can't disambiguate :
    if (index >= yy_buffer_read) {
        // Can't disambiguate, so return as symbol
        return new Symbol(ss);
    }
    // Return symbol if next token is '::' or '('
    return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
            yy_buffer[index] == '(') ?
        newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
    case -1:    // first token
    case sym.ATSIGN:
    case sym.DCOLON:
case sym.LPAREN:
case sym.LBRACK:
case sym.COMMA:
case sym.AND:
case sym.OR:
case sym.MOD:
case sym.DIV:
case sym.MULT:
case sym.SLASH:
case sym.DSLSH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.QNAME, yytext());
}
return newSymbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1:     // first token
        case sym.ATSIGN:
case sym.DCOLON:
case sym.LPAREN:
case sym.LBRACK:
case sym.COMMA:
case sym.AND:
case sym.OR:
case sym.MOD:
case sym.DIV:
case sym.MULT:
case sym.SLASH:
case sym.DSLSH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
    case sym.LT:
    case sym.LE:
    case sym.GT:
    case sym.GE:
        return newSymbol(sym.STAR);
    }
return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}
%
%eofval{
    return newSymbol(sym.EOF);
%eofval
}%yylexthrow{
    Exception
%yylexthrow

Letter={BaseChar}|{Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00FF\u0100-\u0131\u0134-
\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-
\u02A8\u02BB-\u0301\u0308\u0386-\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-
\u03D6\u03DA-\u03F0\u03F3-\u0401-\u0404\u040E-\u044F\u0451-\u045C\u045E-
\u0481-\u0490-\u04C7-\u04CE\u04F8-\u04F9-\u0511-\u0556-\u0559\u0561-\u0586\u05D0-\u05F0-\u05F2\u0621-\u0631-\u0641-\u0671-\u06B7-\u06BE-
\u06BE-\u06D0-\u06D3-\u06D5-\u06E5-\u06E6\u0905-\u0939-\u093D-\u0958-\u0961-\u0985-
Open Source Used In kASA v1.5 1878

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

"*" { return disambiguateStar(); }
"/" { return newSymbol(sym.SLASH); }
"+" { return newSymbol(sym.PLUS); }
"-" { return newSymbol(sym.MINUS); }
"div" { return disambiguateOperator(sym.DIV); }
"mod" { return disambiguateOperator(sym.MOD); }
"::" { return newSymbol(sym.DCOLON); }
"," { return newSymbol(sym.COMMA); }
"@" { return newSymbol(sym.ATSIGN); }
".." { return newSymbol(sym.DDOT); }
"=" { return newSymbol(sym.EQ); }
"!=" { return newSymbol(sym.NE); }
"<" { return newSymbol(sym.LT); }
"<>" { return newSymbol(sym.GT); }
"<=" { return newSymbol(sym.LE); }
">=" { return newSymbol(sym.GE); }
"id" { return disambiguateAxisOrFunction(sym.ID); }
"key" { return disambiguateAxisOrFunction(sym.KEY); }
"text()" { return newSymbol(sym.TEXT); }
"text"+[
\u001f]+"{ return newSymbol(sym.TEXT); }
"node()" { return newSymbol(sym.NODE); }
"node"+[
\u001f]+"{ return newSymbol(sym.NODE); }
"comment()" { return newSymbol(sym.COMMENT); }
"comment"+[
\u001f]+"{ return newSymbol(sym.COMMENT); }
"processing-instruction" { return disambiguateAxisOrFunction(sym.PI); }
"processing-instruction()" { return newSymbol(sym.PI); }
"processing-instruction"+[
\u001f]+"{ return newSymbol(sym.PI); }
"or" { return disambiguateOperator(sym.OR); }
"and" { return disambiguateOperator(sym.AND); }
"child" { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute" { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor" { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant" { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following" { return disambiguateAxisOrFunction(sym.FOLLOWING); }
/usr/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.lex

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 */
package org.apache.xalan.processor;

public class XSLProcessorVersion
{

public static void main(String argv[])
{
    System.out.println(S_VERSION);
}

public static final String PRODUCT = "Xalan";

public static final String LANGUAGE = "Java";

public static final int VERSION = @version.VERSION@;


/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static final int MAINTENANCE = @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B> v.r[.dd| <B>D</B>nn"]</CODE>.
 * <P>Semantics of the version string are identical to the Xerces project.</P>
 */
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
+VERSION+"."+RELEASE+"."
+(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
: (""+MAINTENANCE));

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.src
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/lib/sql/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
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 */

// Proprietary, built in functions
/** current function string (Proprietary). */

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Xs1Attribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/MessageHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/KeyIndex.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ElemDesc.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemForEach.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/ContextMatchStepPattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeSetType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TransformerHandlerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/transformer/InternalFatalError.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CurrentCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/transformer/TrAXFilter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/When.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/util/Separator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StylesheetPIHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/When.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/When.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/When.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/util/SerializerMessages_ja.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StylesheetPIHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/When.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/When.java
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* /
*/
jar/org/apache/xalan/xslt/compiler/Sort.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncLast.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/CeilingCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/Function3Args.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/URI.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/XPath.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/DecimalFormatProperties.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_pt_BR.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/NamespaceMappings.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_zh.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/AttributeValue.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NodeSortKey.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_zh_TW.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResourceBundleBase.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMFilter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Key.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_cy.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncId.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/ContainsCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_zh_TW.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_sv.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/LongArrayWrapper.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemPI.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/runtime/output/StringOutputBuffer.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializationHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/TracerEvent.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/FloorCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/FastStringBuffer.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/sax2dtm/SAX2DTM2.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/CustomStringPool.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/DOMWSFilter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExpressionContext.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FunctionDef1Arg.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/OneStepIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/SimpleAttributeValue.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/FiltersExprWalker.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncTranslate.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ValueOf.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/operators/Operators.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ParentLocationPath.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TreeWalker2Result.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/UnparsedEntityUriCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/BooleanCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSubstringBefore.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/NameSpace.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/NameBase.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/dom/MultiDOM.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/CachedXPathAPI.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/KeyPattern.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectVector.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ErrorMessages_tr.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/OutlineableChunkStart.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/BinOpExpr.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ProcessingInstruction.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LogicalExpr.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/dom/AttrNameListImpl.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/dom/ArrayNodeListIterator.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/dom/ObjectArray.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/BooleanType.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/OutlineableChunkStart.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/functions/FuncStringLength.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/functions/FuncGenerateId.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ErrorMessages_tr.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ErrorMessages_ru.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMDefaultBaseIterators.java
* /opt/cola/permissions/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/MutableAttrListImpl.java
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cpackage api

    import (
        "io/ioutil"
        "strings"
        "time"
    )

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"`

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"`

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"`

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"`

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"`

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"`

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"`

    // The product the license is valid for
    Product string `json:"product"`

    // License Specific Flags
Flags map[string]interface{} `json:"flags"

// List of features enabled by the license
Features []string `json:"features"

}

type LicenseReply struct {
    Valid    bool
    License  *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()
    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }
    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    return nil, nil
}
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

1.186 go-immutable-radix 1.2.0

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* /opt/cola/permits/1223249489_1635884939.17/0/grpc-protobuf-lite-1-33-1-sources-
  jar/io/grpc/protobuf/lite/ProtoInputStream.java
* /opt/cola/permits/1223249489_1635884939.17/0/grpc-protobuf-lite-1-33-1-sources-
  jar/io/grpc/protobuf/lite/ProtoLiteUtils.java
1.196 bzip2 1.0.6 9.2~deb10u1

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1.197 ws4py 0.5.1

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package types

import "time"

// FeatureType store features types
type FeatureType string

const (  // HA means High Availability
    HA = FeatureType("HA")

    // DEV means developer licence
    DEV = FeatureType("DEV")
)
// TRIAL means trial licence
TRIAL = FeatureType("TRIAL")

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane

type Licence struct {
    ArrayUUID      string `json:"arrayUUID,omitempty"
    ClusterID      string `json:"clusterID,omitempty"
    CustomerID     string `json:"customerID"
    CustomerName   string `json:"customerName"
    Storage        int    `json:"storage"
    ValidUntil     time.Time `json:"validUntil"
    LicenceType    string `json:"licenceType"
    Features       map[FeatureType]bool `json:"features"
    Unregistered   bool   `json:"unregistered"
}

// LicenceKeyContainer - stores a licence key
type LicenceKeyContainer struct {
    Key string `json:"key"
}

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= vendor/k8s.io/utils/LICENSE 3b83ef96387f14655fc854ddc3c6bd57
package migration

import "fmt"

// Notice is a migration warning
```go
type Notice struct {
    Plugin   string
    Option   string
    Severity string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version   string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == SevUnsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == SevNewDefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (  
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    SevDeprecated = "deprecated" // deprecated, but still completely functional
    SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
    in the Corefile
    SevNewDefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not
    present in the Corefile
    SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    SevAll = "all" // show all statuses
)

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```
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= vendor/github.com/mindprince/gonvml/LICENSE 3b83ef96387f14655fc854ddc3c6bd57
package storageos

import ("encoding/json"

"github.com/storageos/go-api/types"
)

const (licenceAPIPrefix is a partial path to the HTTP endpoint.
    licenceAPIPrefix = "licencing"
)

// Licence returns the current licence on the server.
func (c *Client) Licence() (*types.Licence, error) {
    resp, err := c.do("GET", licenceAPIPrefix, doOptions{}
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    licence := &types.Licence{}
    if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {
        return nil, err
    }
func (c *Client) LicenceApply(licenceKey string) error {
    _, err := c.do("POST", licenceAPIPrefix, doOptions{
        data: &types.LicenceKeyContainer{Key: licenceKey},
    })
    return err
}

func (c *Client) LicenceDelete() error {
    resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{})
    if err != nil {
        return err
    }
    return resp.Body.Close()
}

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Tomb - support for clean goroutine termination in Go.

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package spec

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

type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
)
// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    },
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }
    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

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

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Protocol Buffers for Go with Gadgets

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

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# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `\<path>`
- Remote file format is `\<pod-name>:\<path>`
```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

### Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `\`<path>\`.
- Remote file format is `\`<pod-name>:/<path>\`.

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

### Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
ekubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

### Namespaces

Set the Pod namespace by prefixing the Pod name with `\`<namespace>\`.

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```
{% endmethod %}
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1.205 python-setuptools 49.2.1

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1.207 image-spec 1.0.1

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1.208 sync v0.0.0-20200625203802-6e8e738ad208

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1.209 github.com/vjeantet/grok 1.0.1

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That's all there is to it!

== MariaDB ==

The Debian package of MySQL was first debianzed on 1997-04-12 by Christian Schwarz <schwarz@debian.org> and ist maintained since 1999-04-20 by Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

MariaDB can be downloaded from https://downloads.mariadb.org/

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```c
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    trusted {
    }
    untrusted {
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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    "path/filepath"
    "regexp"
    "testing"
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var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)\(\)\*( All rights reserved\)\)*
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(//|#) 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)
    }
}
1.249 govalidator 0.0.0-20200907205600-7a23bdc65eef

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1.250 pretty v0.1.0

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1.251 goprotobuf 1.4.3

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1.252 go-proxy v0.0.0-20180725130230-947c36da3153
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1.253 docker-distribution 2.7.1+incompatible

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Gocheck - A rich testing framework for Go

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1.255 go-github 32.1.0

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package github

import (
    "context"
    "fmt"
    "net/http"
    "testing"

    "github.com/google/go-cmp/cmp"
)

func TestRepositoryLicense.Marshal(t *testing.T) {
    testJSONMarshal(t, &RepositoryLicense{}, `{
        "Name": "n",
        "Path": "p",
        "SHA": "s",
        "Size": 1,
        "URL": "u",
        "HTMLURL": "h",
        "GitURL": "g",
        "DownloadURL": "d",
        "Type": "t",
        "Content": "c",
        "Encoding": "e",
        "License": &License{
            "Key": "k",
            "Name": "n",
            "URL": "u",
            "SPDXID": "s",
            "HTMLURL": "h",
        }
    }
    `)
}
Featured: Bool(true),
Description: String("d"),
Implementation: String("i"),
Permissions: &[](string{"p"}],
Conditions: &[](string{"c"}],
Limitations: &[](string{"l"}],
Body: String("b"),
}
}
want := `{
"name": "n",
"path": "p",
"sha": "s",
"size": 1,
"url": "u",
"html_url": "h",
"git_url": "g",
"download_url": "d",
"type": "t",
"content": "c",
"encoding": "e",
"license": {
"key": "k",
"name": "n",
"url": "u",
"spdx_id": "s",
"html_url": "h",
"featured": true,
"description": "d",
"implementation": "i",
"permissions": ["p"],
"conditions": ["c"],
"limitations": ["l"],
"body": "b"
}
}`
testJSONMarshal(t, rl, want)
}

func TestLicense.Marshal(t *testing.T) {

testJSONMarshal(t, &License{}, "{}")
}

l := &License{
Key: String("k"),
Name: String("n"),
URL: String("u"),
SPDXID: String("s"),
HTMLURL: String("h"),
Featured: Bool(true),
Description: String("d"),
Implementation: String("i"),
Permissions: &[]string{"p"},
Conditions: &[]string{"c"},
Limitations: &[]string{"l"},
Body: String("b"),
}
want := `
"key": "k",
"name": "n",
"url": "u",
"spdx_id": "s",
"html_url": "h",
"featured": true,
"description": "d",
"implementation": "i",
"permissions": ["p"],
"conditions": ["c"],
"limitations": ["l"],
"body": "b"
`
testJSONMarshal(t, l, want)
}

func TestLicensesService_List(t *testing.T) {
client, mux, _, teardown := setup()
defer teardown()

mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
fmt.Fprint(w,
`[
{
"key": "mit",
"name": "MIT",
"spdx_id": "MIT",
"url": "https://api.github.com/licenses/mit",
"featured": true
}
]`
testJSONMarshal(t, l, want)
})
}

ctx := context.Background()
licenses, _, err := client.Licenses.List(ctx)
if err != nil {
t.Errorf("Licenses.List returned error: %v", err)
}

want := []*License{
Key: String("mit"),
Name: String("MIT"),
SPDXID: String("MIT"),
URL: String("https://api.github.com/licenses/mit"),
Featured: Bool(true),
}
if !cmp.Equal(licenses, want) {
  t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}

const methodName = "List"
testNewRequestAndDoFailure(t, methodName, client, func() (*Response, error) {
  got, resp, err := client.Licenses.List(ctx)
  if got != nil {
    t.Errorf("testNewRequestAndDoFailure %v = %#v, want nil", methodName, got)
  }
  return resp, err
})

func TestLicensesService_Get(t *testing.T) {
  client, mux, _, teardown := setup()
  defer teardown()

  mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
    testMethod(t, r, "GET")
    fmt.Fprint(w, `("key":"mit","name":"MIT")`)  
  })

  ctx := context.Background()
  license, _, err := client.Licenses.Get(ctx, "mit")
  if err != nil {
    t.Errorf("Licenses.Get returned error: %v", err)
  }
  want := &License{Key: String("mit"), Name: String("MIT")}
  if !cmp.Equal(license, want) {
    t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
  }

  const methodName = "Get"
testBadOptions(t, methodName, func() (error) {
    _, _, err = client.Licenses.Get(ctx, "\n")
    return err
  })

testNewRequestAndDoFailure(t, methodName, client, func() (*Response, error) {
  got, resp, err := client.Licenses.Get(ctx, "mit")
  if got != nil {
    t.Errorf("testNewRequestAndDoFailure %v = %#v, want nil", methodName, got)
  }
  return resp, err
})
}
func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    client, _, _, teardown := setup()
    defer teardown()

    ctx := context.Background()
    _, _, err := client.Licenses.Get(ctx, "]")
    testURLParseError(t, err)
}

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package github

import (
    "context"
    "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.

// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"`
    Path *string `json:"path,omitempty"`
    SHA         *string  `json:"sha,omitempty"`
    Size        *int     `json:"size,omitempty"`
    URL         *string  `json:"url,omitempty"`
    HTMLURL     *string  `json:"html_url,omitempty"`
    GitURL      *string  `json:"git_url,omitempty"`
    DownloadURL *string  `json:"download_url,omitempty"`
    Type        *string  `json:"type,omitempty"`
    Content     *string  `json:"content,omitempty"`
    Encoding    *string  `json:"encoding,omitempty"`
    License     *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}
// License represents an open source license.
type License struct {
  Key  *string `json:"key",omitempty`  
  Name *string `json:"name",omitempty`  
  URL  *string `json:"url",omitempty`  
  SPDXID         *string   `json:"spdx_id",omitempty`  
  HTMLURL        *string   `json:"html_url",omitempty`  
  Featured       *bool     `json:"featured",omitempty"  
  Description    *string   `json:"description",omitempty"  
  Implementation *string   `json:"implementation",omitempty"  
  Permissions    *[]string `json:"permissions",omitempty"  
  Conditions     *[]string `json:"conditions",omitempty"  
  Limitations    *[]string `json:"limitations",omitempty"  
  Body           *string   `json:"body",omitempty"  
}

func (l License) String() string {
  return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
  req, err := s.client.NewRequest("GET", "licenses", nil)
  if err != nil {
    return nil, nil, err
  }

  var licenses []*License
  resp, err := s.client.Do(ctx, req, &licenses)
  if err != nil {
    return nil, resp, err
  }

  return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#get-a-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
  u := fmt.Sprintf("licenses/%s", licenseName)
  req, err := s.client.NewRequest("GET", u, nil)
  if err != nil {
    return nil, nil, err
  }

  return nil, nil, err
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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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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a

type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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1.264 tsdb v0.7.1

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.286 go-autorest-adal 0.9.10
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1.287 githubcomimimdariomergo v0.3.6

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

fields:
  site: string
  author: root

1.288 tools v0.0.0-20200616133436-c1934b75d054

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    //
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}

# update-license

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

## Installation

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

## Usage
## 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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import (
    "testing"
)

func TestUpdateData(t *testing.T) {
    tests := []struct {
        input   string
        output  string
        year    int
        license string
    }{
        `package main`
    }
}
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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("expected:
%s
actual:
%s", output, actualOutput)
    }
}

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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.
    _ = 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.
_ = 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.
    }
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"
  "google.golang.org/api/googleapi"
  "google.golang.org/api/iterator"
  "google.golang.org/api/option"
  "google.golang.org/api/option/internaloption"
  "google.golang.org/grpc"
  "google.golang.org/grpc/metadata"
  "google.golang.org/protobuf/encoding/protojson"
  "google.golang.org/protobuf/proto"
}

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"
  "google.golang.org/grpc/metadata"
  "google.golang.org/protobuf/encoding/protojson"
  "google.golang.org/grpc"

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.ListLicenseRequest, ...gax.CallOption) (*computepb.LicenseList, error)
  SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computeql.Policy, error)
  TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computeql.TestIamPermissions, error)
}

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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...)
}
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(kv, []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()

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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 = 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)

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

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

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

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

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

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

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

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

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

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

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

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

httpResp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
def httpResp.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 *compute.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    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
}
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.TestPermissionsResponse{}

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

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

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

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

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

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

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

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

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

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

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

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

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

1.290 fontconfig 2.13.1 2
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1.292 gnupg 2.1.18-8~deb9u4

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.295 kubernetes-klog 2.9.0

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1.296 client-golang 1.7.1

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1.297 tomb-v1 v1.0.0-20141024135613-dd632973f1e7

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  tomb - support for clean goroutine termination in Go.

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1.298 go-cleanhttp 0.5.1

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1.299 mergo 0.3.9

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

fields:
  site: string
  author: root

1.300 v2 v2.1.1

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* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
  jar/io/netty/channel/ChannelHandlerMask.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its [link ChannelPipeline].
 *
 * <h3>Sub-types</h3>
 * <p>
 * [@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
 * <li>[@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
 * </ul>
 * </p>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>[@link ChannelInboundHandlerAdapter] to handle inbound I/O events, and</li>
 * <li>[@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
 * <li>[@link ChannelDuplexHandler] to handle both inbound and outbound events</li>
 * </ul>
 * </p>
 * <p>
 * For more information, please refer to the documentation of each subtype.
 * </p>
 *
 * <h3>The context object</h3>
 * <p>
 * A [@link ChannelHandler] is provided with a [@link ChannelHandlerContext]
 * object. A [@link ChannelHandler] is supposed to interact with the
 * [@link ChannelPipeline] it belongs to via a context object. Using the
* context object, the [@link ChannelHandler] can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using [@link AttributeKey]s) which is specific to the handler.
*
* State management
*
* A [@link ChannelHandler] often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*   // your methods here
* }
*
* public class DataServerHandler extends [@link SimpleChannelInboundHandler]<Message> {
*   
*   private boolean loggedIn;
*
*   @Override
*   public void channelRead0(@link ChannelHandlerContext) ctx, Message message) {
*     if (message instanceof LoginMessage) {
*       authenticate((LoginMessage) message);
*       loggedIn = true;
*     } else (message instanceof GetDataMessage) {
*       if (>loggedIn>){
*         ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*       } else { 
*         fail();
*       }
*     }
*   }
* ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where an unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See [@link ChannelInitializer#initChannel(Channel)].
* public class DataServerInitializer extends [@link ChannelInitializer]&lt;Channel&g; {
*   
*   @Override
*   public void initChannel(@link Channel) channel) {
*     channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*   }
* }
* </pre>
* <h4>Using `AttributeKey`s</h4>
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use `AttributeKey`s which is provided by
* `ChannelHandlerContext`:
* 
* ```java
* public interface Message {
*     // your methods here
* }
* 
* // @code @Sharable
* public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
*     private final AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");
* 
*     @Override
*     public void channelRead(ChannelHandlerContext ctx, Message message) {
*         Attribute<Boolean> attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             attr.set(true);
*         } else (message instanceof GetDataMessage) {
*             if (Boolean.TRUE.equals(attr.get())) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
* 
* Now that the state of the handler is attached to the `ChannelHandlerContext`, you can add the
* same handler instance to different pipelines:
* 
* ```java
* public class DataServerInitializer extends ChannelInitializer<Channel> {
*     private static final DataServerHandler SHARED = new DataServerHandler();
* 
*     @Override
*     public void initChannel(Channel channel) {
*         channel.pipeline().addLast("handler", SHARED);
*     }
* }
* </pre>
* 
*
The `@Sharable` annotation

In the example above which used an `@link AttributeKey`, you might have noticed the `@code @Sharable` annotation.

If a `@link ChannelHandler` is annotated with the `@code @Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `@link ChannelPipeline`s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

Please refer to the `@link ChannelHandler`, and `@link ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources.jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/group/DefaultChannelGroup.java
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* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources.jar/io/netty/channel/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources.jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources.jar/io/netty/channel/AbstractEventLoop.java
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1.310 go-ping-ping 0.0.0-20210201095549-52eed920f98c

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* /opt/ws_local/PERMITS_SQL/1072948623_1595240780.88/0/netty-resolver-4-1-51-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1072948623_1595240780.88/0/netty-resolver-4-1-51-final-sources-jar/io/netty/resolver/DefaultNameResolver.java
* /opt/ws_local/PERMITS_SQL/1072948623_1595240780.88/0/netty-resolver-4-1-51-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/ws_local/PERMITS_SQL/1072948623_1595240780.88/0/netty-resolver-4-1-51-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java

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* /opt/ws_local/PERMITS_SQL/1072948623_1595240780.88/0/netty-resolver-4-1-51-final-sources.jar/io/netty/resolver/InetNameResolver.java
* /opt/ws_local/PERMITS_SQL/1072948623_1595240780.88/0/netty-resolver-4-1-51-final-sources.jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/ws_local/PERMITS_SQL/1072948623_1595240780.88/0/netty-resolver-4-1-51-final-sources.jar/io/netty/resolver/HostsFileParser.java
* /opt/ws_local/PERMITS_SQL/1072948623_1595240780.88/0/netty-resolver-4-1-51-final-sources.jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/ws_local/PERMITS_SQL/1072948623_1595240780.88/0/netty-resolver-4-1-51-final-sources.jar/io/netty/resolver/CompositeNameResolver.java
* /opt/ws_local/PERMITS_SQL/1072948623_1595240780.88/0/netty-resolver-4-1-51-final-sources.jar/io/netty/resolver/AddressResolver.java

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1072948623_1595240780.88/0/netty-resolver-4-1-51-final-sources.jar/io/netty/resolver/RoundRobinInetAddressResolver.java

1.315 crypto v0.0.0-20200220183623-bac4c82f6975

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1.317 json-iterator-go 1.1.8

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1.319 x-crypto v0.0.0-20200622213623-75b288015ac9

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1.320 tcp-wrappers 7.6.q-28

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1.321 coreutils 8.30 3
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1.324 jackson-databind 2.9.5

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

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package spec

// License information for the exposed API.

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

import (
    "github.com/vmware/govmomi/object"
    "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: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    }
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref
    }
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

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

    return m

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 {
            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
      }
    }
  }

  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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* https://golang.org/src/strings/replace.go
* https://github.com/golang/go/blob/master/LICENSE

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v` `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v` `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
} else {
    s += "is " + n.Severity + " in " + n.Version + "."
}

if n.ReplacedBy != "" {
    s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
}

if n.Additional != "" {
    s += " " + n.Additional
}

return s
}

const (  
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored    = "ignored"    // if included in the corefile, it will be ignored by CoreDNS
    removed    = "removed"    // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool
)

// The following statuses are used for selecting/filtering notifications
all = "all" // show all statuses

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# Copying Container Files

## Motivation

- Copying files from Containers in a cluster
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.
## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `path`
- Remote file format is `<pod-name>:path`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `path`
- Remote file format is `<pod-name>:path`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c container-name`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:<path>`

```bash
ekubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```
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goproperties - properties file decoder for Go

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tomb - support for clean goroutine termination in Go.

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1.332 clientmodel v0.2.0

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1.333 jctools-core 3.0.0
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Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
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Bundle-Version: 3.0.0
Created-By: Apache Maven Bundle Plugin
Export-Package: org.jctools.maps;version="3.0.0",org.jctools.util;version="3.0.0",org.jctools.queues;version="3.0.0";uses:="sun.misc",org.jctools.queues.spec;version="3.0.0",org.jctools.queues.atomic;version="3.0.0";uses:="org.jctools.queues.org.jctools.queues.spec"
Import-Package: sun.misc;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-4.2.0.201903051501

Found in path(s):
* /opt/cola/permits/1177956791_1625584358.42/0/jctools-core-3-0-0-5-jar/META-INF/MANIFEST.MF

1.334 urllib3 1.25.9
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# Contributions to the urllib3 project

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In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBR5RiBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.
* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravelosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters
* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabadacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
* Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
* Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
* Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
* Various character-encoding fixes/tweaks
* Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
* Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
* Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
* History list to Retry object.
* HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
* Ensure timeouts are not booleans and greater than zero.
* Fixed infinite loop in `stream` when amt=None.
* Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
* Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
* Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
* Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.
* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header
* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside
    HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying `SSLContext.load_verify_locations()`.

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <tycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

1.335 golang-org-x-time v0.0.0-20200630173020-3af7569d3a1e

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1.336 openssl 1.0.2u-1~deb9u6

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1.339 josepy 1.1.0
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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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1.341 go-homedir v1.1.0

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1.343 gophercloud v0.1.0

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package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"
        }
    }
    err := r.ExtractInto(&s)
    if err != nil {
This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

At this point, you should have:

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

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

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

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

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

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

### Adding a Single Field

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

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

### Adding a Single API Call

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

### Adding a Suite of API Calls

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

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

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

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

### Adding an Entire OpenStack Project

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

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

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

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

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

### Unit Tests

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

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

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

### Documentation

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

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

There are two methods of handling this:

### Create Independent Pull Requests

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

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

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

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

Advantages of this Method:

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

Disadvantages of this Method:

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

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.
Use the following `git` workflow to implement this method:

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

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

Advantages of this Method:

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

Disadvantages of this Method:

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

The choice of method is up to you.

---

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

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.
Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).
2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author. Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `{
}
`

// GetResult provides a Get result.
```
const GetResult = '
{
}
'

// CreateRequest provides the input to a Create request.
const CreateRequest = '
{
}
'

// UpdateRequest provides the input to a Update request.
const UpdateRequest = '
{
}
'

// UpdateResult provides an update result.
const UpdateResult = '
{
}
'

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{
}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{
}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{
}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{
FirstResource, SecondResource
}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, ListResult)
})
}
// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, GetResult)
})
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "POST")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.WriteHeader(http.StatusCreated)
fmt.Fprintf(w, GetResult)
})
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "DELETE")

w.WriteHeader(http.StatusNoContent)
})
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "PATCH")

w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
}
}
package RESOURCE

import (
  "github.com/gophercloud/gophercloud"
  "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
  ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
  q, err := gophercloud.BuildQueryString(opts)
  return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
  url := listURL(client)
  if opts != nil {
    query, err := opts.ToResourceListQuery()
    if err != nil {
      return pagination.Pager{Err: err}
    }
    url += query
  }
    return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
  })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
  _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
  return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.

type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.

type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToResourceUpdateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}
package testing

import {
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
}

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)
allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
th.AssertNoErr(t, err)
actual, err := resources.ExtractResources(allPages)
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!
========================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing
==========================

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you
submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](http://acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

```
/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE
Example to Create a RESOURCE
Example to Update a RESOURCE
Example to Delete a RESOURCE
*/

package RESOURCE
Step 2: Create an Issue
=================================

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug
-------------

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request
---------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749)
issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* [https://github.com/gophercloud/gophercloud/issues/715](https://github.com/gophercloud/gophercloud/issues/715)
* [https://github.com/gophercloud/gophercloud/issues/719](https://github.com/gophercloud/gophercloud/issues/719)

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* [https://github.com/gophercloud/gophercloud/issues/539](https://github.com/gophercloud/gophercloud/issues/539)
* [https://github.com/gophercloud/gophercloud/issues/555](https://github.com/gophercloud/gophercloud/issues/555)
* [https://github.com/gophercloud/gophercloud/issues/571](https://github.com/gophercloud/gophercloud/issues/571)
* [https://github.com/gophercloud/gophercloud/issues/583](https://github.com/gophercloud/gophercloud/issues/583)
* [https://github.com/gophercloud/gophercloud/issues/605](https://github.com/gophercloud/gophercloud/issues/605)

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for `_issues_`, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen
here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

====================

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621).

In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Measuring, we want to change:

```go
type Network struct {
    ID      string `json:"id"`
    Name    string `json:"name"`
    AdminStateUp bool  `json:"admin_state_up"`
    Status  string `json:"status"`
    Subnets []string `json:"subnets"`
    TenantID string `json:"tenant_id"`
    Shared  bool  `json:"shared"`
}
```

```

```

to look like

```go
type Network struct {
    ID      string `json:"id"`
    Name    string `json:"name"`
    AdminStateUp bool  `json:"admin_state_up"`
    Status  string `json:"status"`
    Subnets []string `json:"subnets"`
    TenantID string `json:"tenant_id"`
    Shared  bool  `json:"shared"`

    AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```

```
We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).

However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips
--------------------
OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.344 x-oauth2 0.0.0-20200107190931-bf48bf16ab8d

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1.345 gopkgin 0.9.1

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1.346 exp v0.0.0-20191227195350-da58074b4299

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1.347 hibernate-validator 5.0.2.Final

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1.355 rsync 3.1.3 6

1.355.1 Available under license:

This is Debian's prepackaged version of Andrew Tridgell and Paul Mackerras' rsync utility.

This package provides the rsync program, which is a replacement for rcp that uses the rsync algorithm to transfer only the differences between two sets of files.

This package was put together by Philip Hands <phil@hands.com>, from sources obtained from:
http://rsync.samba.org/ftp/rsync/rsync-2.5.4.tar.gz
The current version was downloaded from:
https://rsync.samba.org/ftp/rsync/src/rsync-3.1.3.tar.gz
on 2018-12-02 by Samuel Henrique <samueloph@debian.org>.

The changes were very minimal - merely adding support for the Debian package maintenance scheme by adding various debian/* files.
The only significant change is passing the -4 / -6 options through to ssh.
See the debian/patches/ directory.

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Version 3, 29 June 2007

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1.372 mitchellh-mapstructure 1.4.1

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1.373 json-c 0.15-r1

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1.381 linux-atm 2.5.1-2

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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1.386 github.com/golang-sql/civil 0.0.0-20190719163853-cb61b32ac6fe
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1.387 tools v0.1.1
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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, 15)

if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
t.Skip("generating licenses only works on Unixes")
}

tmp, err := ioutil.TempFile("", ")
if err != nil {
t.Fatal(err)
}
tmp.Close()

if out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {
t.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
    }
    // Look for copyright lines.
    m := copyrightRe.FindStringSubmatch(normalized)
    if m != nil {
        return true, nil
    }
    return false, nil
}
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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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, 
"
"))
  }
}

1.388 utfbom v1.1.1

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lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
and the initial implementation of incremental propagation, including
the following new or changed files:

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
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1.405 apiserver-network-proxy-konnectivity-client v0.0.9

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# Contributions to the urllib3 project

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In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRiBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix
* kennethreitz <me@kennethreitz.com>
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  * Bugfixes, Improvements and Test coverage

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  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL
* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
* Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovskiy@gmail.com>
* Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
* Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
* Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
* HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
* Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
* Disabled TLS compression by default on Python 3.2+
* Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
* Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
* Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
* HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
* Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
* PEP8 Compliance and Linting
* Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.
* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

---

Open Source Used In kASA v1.5 4876
* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist
* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl()` method to provide `urllib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings
* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* [Your name or handle] <[email or website]>
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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1.424 syslog-ng-json 3.30.1-r0

1.424.1 Available under license:

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libtest/
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FAQ:
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Q: Is it possible to create derived works of syslog-ng under the GPL/LGPL licenses?

A: Yes, that's exactly the point of open source. Works derived from the plugins will have to use the GPL license, but you can choose to use LGPL for them as well.

Q: Do I need to sign a Contributory License Agreement in order for my contribution to be accepted?

A: No, starting with syslog-ng 3.2, you don't need to sign a CLA in order to have your contributions accepted.

Q: Is it possible to create non-free plugins for syslog-ng?

A: Yes. It is our understanding that plugins are derived works of the syslog-ng core but not derived works of other plugins. Thus, non-free plugins are possible, provided they do not link to any of the GPLd plugins explicitly and the only connection between two plugins is via the syslog-ng core.

Q: Who is permitted to create non-free plugins for syslog-ng? Is it just BalaBit (the current copyright holder as of the initial 3.2 release)?

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.433 miekg-dns 1.1.43

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Dynamic NDArray Developers list:

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* /opt/ws_local/PERMITS_SQL/1083459527_1598192340.79/0/netty-tcnative-boringssl-static-2-0-31-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodDecryptTask.java

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1.439 ssl-client 1.32.1-r7

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Julian Seward, Cambridge, UK.
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-----------------------------

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}
#
# update-license

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

## Installation

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

## Usage

```go
update-license 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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import (  "testing"
)

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

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

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

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jar/io/netty/handler/codec/EmptyHeaders.java
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* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
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* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java
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* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java

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*/
/**
 * A decoder that splits the received [@link ByteBuf]s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * [@link LengthFieldBasedFrameDecoder] has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 * <pre>
 *    lengthFieldOffset   = 0
 *    lengthFieldLength   = 2
 *    lengthAdjustment    = 0
 *    initialBytesToStrip = 0 (= do not strip header)
 * </pre>
 * <p>
 * <h3>2 bytes length field at offset 0, strip header</h3>
 * Because we can get the length of the content by calling
 * [@link ByteBuf#readableBytes()], you might want to strip the length
 * field by specifying <tt>initialBytesToStrip</tt>. In this example, we
 * specified <tt>2</tt>, that is same with the length of the length field, to
 * strip the first two bytes.
 * <pre>
 *    lengthFieldOffset   = 0
 * </pre>
 *
* lengthFieldLength = 2
* lengthAdjustment = 0
* initialBytesToStrip = 2 (= the length of the Length field)
* 
* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+

* </pre>
* 
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* lengthAdjustment. Because the length value in this example message
* is always greater than the body length by 2, we specify -2 for
* compensation.
* 
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = -2 (= the length of the Length field)
* initialBytesToStrip = 0
* 
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
* 
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. lengthAdjustment is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* 
* lengthFieldOffset = 2 (= the length of Header 1)
* lengthFieldLength = 3
* lengthAdjustment = 0
* initialBytesToStrip = 0
* 
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `lengthAdjustment` so that the decoder counts the extra header into the frame length calculation.

```
lengthFieldOffset   = 0
lengthFieldLength   = 3
lengthAdjustment    = 2 (= the length of Header 1)
initialBytesToStrip = 0
```

```
BEFORE DECODE (17 bytes):                           AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
|  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
| 0x00000C | 0xCAFE   | "HELLO, WORLD" |      | 0x00000C | 0xCAFE   | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
```

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `lengthFieldOffset` and the extra header affects the `lengthAdjustment`. We also specified a non-zero `initialBytesToStrip` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `initialBytesToSkip` for `lengthFieldOffset`.

```
lengthFieldOffset   = 1 (= the length of HDR1)
lengthFieldLength   = 2
lengthAdjustment    = 1 (= the length of HDR2)
initialBytesToStrip = 3 (= the length of HDR1 + LEN)
```

```
BEFORE DECODE (16 bytes):                           AFTER DECODE (13 bytes)
+----------+----------+----------+----------------+      +----------+----------------+
| HDR1     | Length   | HDR2     | Actual Content |----->| HDR2     | Actual Content |
| 0xCA     | 0x000C   | 0xFE     | "HELLO, WORLD" |      | 0xFE     | "HELLO, WORLD" |
+----------+----------+----------+----------------+      +----------+----------------+
```

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `lengthFieldOffset` and the extra header affects the `lengthAdjustment`. We also specified a non-zero `initialBytesToStrip` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `initialBytesToSkip` for `lengthFieldOffset`.

```
lengthFieldOffset   = 1 (= the length of HDR1)
lengthFieldLength   = 2
lengthAdjustment    = 1 (= the length of HDR2)
initialBytesToStrip = 3 (= the length of HDR1 + LEN)
```

```
BEFORE DECODE (16 bytes):                           AFTER DECODE (13 bytes)
+----------+----------+----------+----------------+      +----------+----------------+
| HDR1     | Length   | HDR2     | Actual Content |----->| HDR2     | Actual Content |
| 0xCA     | 0x000C   | 0xFE     | "HELLO, WORLD" |      | 0xFE     | "HELLO, WORLD" |
+----------+----------+----------+----------------+      +----------+----------------+
```
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
*<pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
*
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +--------+--------+----------------+      +--------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +--------+--------+----------------+      +--------+----------------+
* </pre>
* @see LengthFieldPrepender
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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 */

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/**
* Utility class for {link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
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1.444 jsonpatch v4.5.0+incompatible
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1.449 zap 1.10.0

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1.450 p11-kit 0.23.3-2+deb9u1

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1.452 ip-address 1.0.14

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Metadata-Version: 1.1
Name: ipaddress
Version: 1.0.14
Summary: IPv4/IPv6 manipulation library
Home-page: https://github.com/phihag/ipaddress
Author: Philipp Hagemeister
Author-email: phihag@phihag.de
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Description: Port of the 3.3+ ipaddress module to 2.6, 2.7, 3.2
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1.453 aws-sdk-go-v2 v0.24.0

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1.454 libffi 1.14.4

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

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Ty Coon, President of Vice
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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
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Ty Coon, President of Vice
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c ispell-local-pdict: "ispell-dict"
c End:

1.469 go-autoregist-cli 0.4.2
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1.471 netty-transport 4.1.61.Final

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Manifest-Version: 1.0
Implementation-Title: Netty/Transport
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
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Bundle-SymbolicName: io.netty.transport
Implementation-Version: 4.1.61.Final
Built-By: norman
Bnd-LastModified: 161709666373
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.nettyresolver;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
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1.485 antchfx-xpath 1.1.11

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1.486 godigest 1.0.0

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1.487 armon-go-metrics v0.3.3

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

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1.500 dgryski-go-rendezvous 0.0.0-20200823014737-9f7001d12a5f

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1.501 googlecloudgo v0.51.0

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

package compute_test

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

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

    // TODO: Use client.
    _ = c
}

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

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

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

    req := &computepb.GetLicenseRequest{
    // TODO: Fill request struct fields.
    // 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 {

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.
    }
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"   "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()

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

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

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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/optional"
)

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 is an iterator for the License iterator.
*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()
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())
    }
    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
}
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, 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
    }
    defer httpReq.Body.Close()

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

    buf, err := ioutil.ReadAll(httpReq.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
}
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.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 *compute.GetIamPolicyLicenseRequest,
    opts ...gax.CallOption) (*compute.License, 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)

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

baseUrl.RawQuery = params.Encode()

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

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

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

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

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

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

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

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.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
    }
    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
}

// 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.
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.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 []*compute pb.License, nextPageToken string, err error)
}

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

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

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

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

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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/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.

LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.

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

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

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Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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* To: Stephen Frost <sfrost@snowman.net>
* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>
* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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<!!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>
</xsl:stylesheet>
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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(1)

ExceptionConverter:
The original version of this class was published in an article by Heinz Kabutz. Read http://www.javaspecialists.co.za/archive/newsletter.do?issue=033&print=yes&locale=en_US "This material from The Java(tm) Specialists' Newsletter by Maximum Solutions (South Africa). Please contact Maximum Solutions for more information.

(2)

SimpleXMLParser:
The original version of this class was published in a JavaWorld article by Steven Brandt:


Jennifer Orr (JavaWorld) wrote: "You have permission to use the code appearing in Steven Brandt's JavaWorld article, 'Java Tip 128: Create a quick-and-dirty XML parser.' We ask that you reference the author as the creator and JavaWorld as the original publisher of the code." Steven Brandt also agreed with the use of this class.

(3)

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LibTIFF:

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FAQ:
=====

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Q: Is it possible to create derived works of syslog-ng under the GPL/LGPL licenses?

A: Yes, that's exactly the point of open source. Works derived from the plugins will have to use the GPL license, but you can choose to use LGPL for them as well.

Q: Do I need to sign a Contributory License Agreement in order for my contribution to be accepted?

A: No, starting with syslog-ng 3.2, you don't need to sign a CLA in order to have your contributions accepted.

Q: Is it possible to create non-free plugins for syslog-ng?

A: Yes. It is our understanding that plugins are derived works of the syslog-ng core but not derived works of other plugins. Thus, non-free plugins are possible, provided they do not link to any of the GPL'd plugins explicitly and the only connection between two plugins is via the syslog-ng core.

Q: Who is permitted to create non-free plugins for syslog-ng? Is it just BalaBit (the current copyright holder as of the initial 3.2 release)?

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1.545 multierr v1.5.0

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1.547 googlecloudgo v0.93.3

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

package compute_test

import ( "context" "compute" "cloud.google.com/go/compute/apiv1" "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.
    // 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.
    _ = 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
        // 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.
    }
func ExampleLicenseCodesClient_TestIamPermissions() {
    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
        // TODO: Handle error.
    }
    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/protobuf"
)
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.

```go
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.

```go
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.

```go
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.

```go
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 {
    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 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, 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.
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 := &compute.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 *compute.LicenseGetIamPolicyRequest, opts ...gax.CallOption) (*compute.Policy, error) {
    baseUrl, _ := url.Parse(c.endpoint)

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

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

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

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

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
res := &compute.Operation{
    proto: r
}
if err := unm.Unmarshal(d, res); err != nil {
    return nil, maybeUnknownEnum(err)
}

t := &Operation{proto: res}
return t, 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) ([1]*computepb.License, string, error) {
    resp := &computepb.LicensesListResponse{}
    if pageToken != "" {
      req.PageToken = proto.String(pageToken)
    }
    if pageSize > math.MaxInt32 {
      req.MaxResults = proto.Uint32(math.MaxInt32)
    } else if pageSize != 0 {
      req.MaxResults = proto.Uint32(uint32(pageSize))
    }
    baseUrl, _ := url.Parse(c.endpoint)

    params := url.Values{}
    if req != nil && req.Filter != nil {
    }
    if req != nil && req.MaxResults != nil {
      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.Set(k, v)
    }
    // Add the rest of the request options

    resp, err = c.httpClient.Do(httpReq)
    if err != nil {
      return nil, "", err
    }
    if resp.StatusCode != 200 {
      return nil, "", errors.New("Unexpected status code")
    }
    // Parse the response
    err = proto.Unmarshal(resp.Body, resp)
    if err != nil {
      return nil, "", err
    }
    return it, resp.Header.Get("Link"), nil
  }
  it.InternalFetch(pageSize, pageToken)
  return it, "", nil
}
```
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.
Download the document for detailed review.
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
}

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.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 []*compute pb.License, nextPageToken string, err error)

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

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

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

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

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// 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/metadatal"
    "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{}}
}

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([]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 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.TestIamPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, _ := url.Parse(c.endpoint)
    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
    }

    return &computepb.TestIamPermissionsResponse{Permissions: marshalOptions.UnmarshalOptions(buf, req.GetTestPermissionsRequestResource())}, nil
}
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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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kropd_rpc.c
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* /opt/ws_local/PERMITS_SQL/1075084041_1596044813.39/0/netty-transport-native-epoll-4-1-51-final-sources-jar/netty_epoll_native.c

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1.567 hostname 3.21

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hostname -- set the host name or show the host/domain name

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Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper
mail.

You should also get your employer (if you work as a programmer) or
your school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

---------

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

---------

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th= 
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of = a=20
library to dictact to application writes what license they should be using.= 
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20
_______________________________________________
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of 
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec 
> > directly 
> > and see if he wants to relicense his code as LGPL... but at this 
> > point, 
> > it was enough to just get it consistent and documented as to what 
> > it was 
> > released under. This wasn't actually a license change, just a 
> > clarification of the licensing that was already in place. 
> > the original license (before moving to sourceforge -- aka, 2.7) was

---
> not
> GPL-2 ... it was a modified artistic license ... i didn't notice the
> license
> change until it was mentioned in the latest notes.
> >=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isn't the
> place of a
> library to dictate to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.
Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.
>
> I am sympathetic. Guys, what do you reckon?
What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

yes, go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

yes, go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scanrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail.mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxpbr020623
   for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
   for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
   Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 1IcOcX-0004Qt-6L
   for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=floved
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit

-----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
-----------
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.570 go-hclog v0.12.2
1.570.1 Available under license :
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1.571 musl 1.2.2-r1

1.571.1 Available under license:

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----------------------------------------------------------------------

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----------------------------------------------------------------------

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* Frodo Looijaard
Original author of libsensors, sensors-detect, sensors and isadump.

* Merlin Hughes
Original author of sensord.

* Bob Schlaermann
Dynamic chip feature detection (a.k.a. generic chip support) in
libsensors and sensors.

* Mark M. Hoffman
Many improvements to the libsensor configuration file scanner.

* Jean Delvare
New libsensor API, and migration of sensors and sensord thereto.
Many optimizations in libsensor and sensors.
Configuration file converter.
Rewrite of sensors-detect.
Support for multiple configuration files in libsensor.

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1.574 golang-org-x-time v0.0.0-20210723032227-1f47c861a9ac

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package spec
import "testing"
func TestIntegrationLicense(t *testing.T) {
license := License{Name: "the name", URL: "the url"}
const licenseJSON = `{"name":"the name","url":"the url"}`
const licenseYAML = "name: the name\nurl: the url\n"
assertSerializeJSON(t, license, licenseJSON)
assertParsesJSON(t, licenseJSON, license)
}
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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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1.587 python 3.7.3 2+deb10u3

1.587.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the Python programming
language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from
sources from ftp.python.org:/pub/python, based on the Debianization by
the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and
Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final
2.3 version is released.

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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py3compile, py3clean and debpython module:
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1.590 netbase 5.6

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1.591 xxhash 2.1.2

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1.592 go-ieproxy 0.0.1

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1.593 commons-codec 1.11

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
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1.594 inf 0.9.1

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// DataInQueryLicenses is a nested struct in linkface response
package linkface

type DataInQueryLicenses struct {
    DataItem []DataItem `json:"DataItem" xml:"DataItem"
}

package ocr

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//--
import (  "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"  "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// RecognizeDriverLicense invokes the ocr.RecognizeDriverLicense API synchronously  
func (client *Client) RecognizeDriverLicense(request *RecognizeDriverLicenseRequest) (response *RecognizeDriverLicenseResponse, err error) {  
response = CreateRecognizeDriverLicenseResponse()  
err = client.DoAction(request, response)  
return
}

// RecognizeDriverLicenseWithChan invokes the ocr.RecognizeDriverLicense API asynchronously  
func (client *Client) RecognizeDriverLicenseWithChan(request *RecognizeDriverLicenseRequest) (<-chan *RecognizeDriverLicenseResponse, <-chan error) {  
responseChan := make(chan *RecognizeDriverLicenseResponse, 1)  
errChan := make(chan error, 1)  
er := client.AddAsyncTask(func() {  
deffer close(responseChan)  
deffer close(errChan)  
response, err := client.RecognizeDriverLicense(request)  
if err != nil {  
errChan <- err  
} else {  
responseChan <- response
}  
})  
if err != nil {  
errChan <- err  
close(responseChan)  
close(errChan)  
}  
return responseChan, errChan
}

// RecognizeDriverLicenseWithCallback invokes the ocr.RecognizeDriverLicense API asynchronously  
func (client *Client) RecognizeDriverLicenseWithCallback(request *RecognizeDriverLicenseRequest, callback func(response *RecognizeDriverLicenseResponse, err error)) <-chan int {  
result := make(chan int, 1)  
er := client.AddAsyncTask(func() {  
return
})  
if err != nil {  
result <- 0  
close(result)  
}  
return result
var response *RecognizeDriverLicenseResponse
var err error
deffer close(result)
response, err = client.RecognizeDriverLicense(request)
callback(response, err)
result <- 1
}
if err != nil {
defer close(result)
callback(nil, err)
result <- 0
}
return result

// RecognizeDriverLicenseRequest is the request struct for api RecognizeDriverLicense
type RecognizeDriverLicenseRequest struct {
  *requests.RpcRequest
  ImageType requests.Integer `position:"Body" name:"ImageType"
  Side      string           `position:"Body" name:"Side"
  ImageURL  string           `position:"Body" name:"ImageURL"
}

// RecognizeDriverLicenseResponse is the response struct for api RecognizeDriverLicense
type RecognizeDriverLicenseResponse struct {
  *responses.BaseResponse
  RequestId string `json:"RequestId" xml:"RequestId"
  Code      string `json:"Code" xml:"Code"
  Message   string `json:"Message" xml:"Message"
  Data      Data   `json:"Data" xml:"Data"
}

// CreateRecognizeDriverLicenseRequest creates a request to invoke RecognizeDriverLicense API
func CreateRecognizeDriverLicenseRequest() (request *RecognizeDriverLicenseRequest) {
  request = &RecognizeDriverLicenseRequest{
    RpcRequest: &requests.RpcRequest{
    }
  request.InitWithApiInfo("ocr", "2019-12-30", "RecognizeDriverLicense", "ocr", "openAPI")
  request.Method = requests.POST
  return
}

// CreateRecognizeDriverLicenseResponse creates a response to parse from RecognizeDriverLicense response
func CreateRecognizeDriverLicenseResponse() (response *RecognizeDriverLicenseResponse) {
  response = &RecognizeDriverLicenseResponse{
    BaseResponse: &responses.BaseResponse{
    }
  return
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if err != nil {
    errChan <- err
} else {
    responseChan <- response
}
}
if err != nil {
    errChan <- err
    close(responseChan)
    close(errChan)
}
return responseChan, errChan

// GetLicenseWithCallback invokes the mts.GetLicense API asynchronously
func (client *Client) GetLicenseWithCallback(request *GetLicenseRequest, callback func(response *GetLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *GetLicenseResponse
        var err error
        defer close(result)
        response, err = client.GetLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// GetLicenseRequest is the request struct for api GetLicense
type GetLicenseRequest struct {
    *requests.RpcRequest
    ResourceOwnerId string `position:"Query" name:"ResourceOwnerId"`
    Data string `position:"Query" name:"Data"`
    Type string `position:"Query" name:"Type"`
    ResourceOwnerAccount string `position:"Query" name:"ResourceOwnerAccount"`
    OwnerAccount string `position:"Query" name:"OwnerAccount"`
    OwnerId string `position:"Query" name:"OwnerId"`
    MediaId string `position:"Query" name:"MediaId"`
    Header string `position:"Query" name:"Header"`
    LicenseUrl string `position:"Query" name:"LicenseUrl"`
}
// GetLicenseResponse is the response struct for api GetLicense
type GetLicenseResponse struct {
*responses.BaseResponse
RequestId string `json:"RequestId" xml:"RequestId"
License  string `json:"License" xml:"License"
}

// CreateGetLicenseRequest creates a request to invoke GetLicense API
func CreateGetLicenseRequest() (request *GetLicenseRequest) {
request = &GetLicenseRequest{
RpcRequest: &requests.RpcRequest{},
}
request.InitWithApiInfo("Mts", "2014-06-18", "GetLicense", "mts", "openAPI")
request.Method = requests.POST
return
}

// CreateGetLicenseResponse creates a response to parse from GetLicense response
func CreateGetLicenseResponse() (response *GetLicenseResponse) {
response = &GetLicenseResponse{
BaseResponse: &responses.BaseResponse{},
}
return
}

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)

// ActivateLicense invokes the market.ActivateLicense API synchronously
func (client *Client) ActivateLicense(request *ActivateLicenseRequest) (response *ActivateLicenseResponse, err error) {
    response = CreateActivateLicenseResponse()
    err = client.DoAction(request, response)
    return
}

// ActivateLicenseWithChan invokes the market.ActivateLicense API asynchronously
func (client *Client) ActivateLicenseWithChan(request *ActivateLicenseRequest) (<-chan *ActivateLicenseResponse, <-chan error) {
    responseChan := make(chan *ActivateLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.ActivateLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        defer close(responseChan)
        defer close(errChan)
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

// ActivateLicenseWithCallback invokes the market.ActivateLicense API asynchronously
func (client *Client) ActivateLicenseWithCallback(request *ActivateLicenseRequest, callback func(response *ActivateLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *ActivateLicenseResponse
        var err error
        defer close(result)
        response, err = client.ActivateLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        defer close(result)
    }
    return result
}
callback(nil, err)
result <- 0
}
return result
}

// ActivateLicenseRequest is the request struct for api ActivateLicense
type ActivateLicenseRequest struct {
  *requests.RpcRequest
  Identification string `position:"Query" name:"Identification"`
  LicenseCode string `position:"Query" name:"LicenseCode"`
}

// ActivateLicenseResponse is the response struct for api ActivateLicense
type ActivateLicenseResponse struct {
  *responses.BaseResponse
  RequestId string `json:"RequestId" xml:"RequestId"`
  Success bool `json:"Success" xml:"Success"`
}

// CreateActivateLicenseRequest creates a request to invoke ActivateLicense API
func CreateActivateLicenseRequest() (request *ActivateLicenseRequest) {
  request = &ActivateLicenseRequest{
    RpcRequest: &requests.RpcRequest{},
  }
  request.InitWithApiInfo("Market", "2015-11-01", "ActivateLicense", "yunmarket", "openAPI")
  return
}

// CreateActivateLicenseResponse creates a response to parse from ActivateLicense response
func CreateActivateLicenseResponse() (response *ActivateLicenseResponse) {
  response = &ActivateLicenseResponse{
    BaseResponse: &responses.BaseResponse{},
  }
  return
}

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    readerc.go
    scanncrc.go
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import (  "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"  "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// RecognizeLicensePlate invokes the ocr.RecognizeLicensePlate API synchronously  
func (client *Client) RecognizeLicensePlate(request *RecognizeLicensePlateRequest) (response *RecognizeLicensePlateResponse, err error) {  
    response = CreateRecognizeLicensePlateResponse()  
    err = client.DoAction(request, response)  
    return
}

// RecognizeLicensePlateWithChan invokes the ocr.RecognizeLicensePlate API asynchronously  
func (client *Client) RecognizeLicensePlateWithChan(request *RecognizeLicensePlateRequest) (<-chan *RecognizeLicensePlateResponse, <-chan error) {  
    responseChan := make(chan *RecognizeLicensePlateResponse, 1)  
    errChan := make(chan error, 1)  
    err := client.AddAsyncTask(func() {  
        defer close(responseChan)  
        defer close(errChan)  
        response, err := client.RecognizeLicensePlate(request)  
        if err != nil {  
            errChan <- err  
        } else {  
            responseChan <- response  
        }  
    })  
    if err != nil {  
        errChan <- err  
        close(responseChan)  
        close(errChan)  
    }  
    return responseChan, errChan
}

// RecognizeLicensePlateWithCallback invokes the ocr.RecognizeLicensePlate API asynchronously  
func (client *Client) RecognizeLicensePlateWithCallback(request *RecognizeLicensePlateRequest, callback func(response *RecognizeLicensePlateResponse, err error)) <-chan int {  
    result := make(chan int, 1)  
    err := client.AddAsyncTask(func() {  
        var response *RecognizeLicensePlateResponse  
        var err error  
        defer close(result)  
        response, err = client.RecognizeLicensePlate(request)  
        callback(response, err)  
        result <- 1
if err != nil {
    defer close(result)
    callback(nil, err)
    result <- 0
} return result

// RecognizeLicensePlateRequest is the request struct for api RecognizeLicensePlate
type RecognizeLicensePlateRequest struct {
    *requests.RpcRequest
    ImageType requests.Integer `position:"Body" name:"ImageType"
    ImageURL  string           `position:"Body" name:"ImageURL"
}

// RecognizeLicensePlateResponse is the response struct for api RecognizeLicensePlate
type RecognizeLicensePlateResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId"
    Code      string `json:"Code" xml:"Code"
    Message   string `json:"Message" xml:"Message"
    Data      Data   `json:"Data" xml:"Data"
}

// CreateRecognizeLicensePlateRequest creates a request to invoke RecognizeLicensePlate API
func CreateRecognizeLicensePlateRequest() (request *RecognizeLicensePlateRequest) {
    request = &RecognizeLicensePlateRequest{
        RpcRequest: &requests.RpcRequest{},
    }
    request.InitWithApiInfo("ocr", "2019-12-30", "RecognizeLicensePlate", "ocr", "openAPI")
    request.Method = requests.POST
    return
}

// CreateRecognizeLicensePlateResponse creates a response to parse from RecognizeLicensePlate response
func CreateRecognizeLicensePlateResponse() (response *RecognizeLicensePlateResponse) {
    response = &RecognizeLicensePlateResponse{
        BaseResponse: &responses.BaseResponse{},
    }
    return
}

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// PositionsInRecognizeLicensePlate is a nested struct in ocr response
type PositionsInRecognizeLicensePlate struct {
    Positions []Positions `json:"positions" xml:"positions"
}

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import (  "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"  "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

}


// RecognizeBusinessLicenseWithCallback invokes the ocr.RecognizeBusinessLicense API asynchronously  func (client *Client) RecognizeBusinessLicenseWithCallback(request *RecognizeBusinessLicenseRequest, callback func(response *RecognizeBusinessLicenseResponse, err error)) <-chan int {  result := make(chan int, 1)  err := client.AddAsyncTask(func() {  var response *RecognizeBusinessLicenseResponse  var err error  }) (request)  if err != nil {  result <- err  } else {  response, err = client.RecognizeBusinessLicense(request)  if err != nil {  result <- err  } else {  callback(response, nil)  }  }  return result
}
defer close(result)
response, err = client.RecognizeBusinessLicense(request)
callback(response, err)
result <- 1
}
if err != nil {
defer close(result)
callback(nil, err)
result <- 0
}
return result

// RecognizeBusinessLicenseRequest is the request struct for api RecognizeBusinessLicense
type RecognizeBusinessLicenseRequest struct {
requests.RpcRequest
ImageType requests.Integer `position:"Body" name:"ImageType"
ImageURL string `position:"Body" name:"ImageURL"
}

// RecognizeBusinessLicenseResponse is the response struct for api RecognizeBusinessLicense
type RecognizeBusinessLicenseResponse struct {
responses.BaseResponse
RequestId string `json:"RequestId" xml:"RequestId"
Data Data `json:"Data" xml:"Data"
}

// CreateRecognizeBusinessLicenseRequest creates a request to invoke RecognizeBusinessLicense API
func CreateRecognizeBusinessLicenseRequest() (request *RecognizeBusinessLicenseRequest) {
request = &RecognizeBusinessLicenseRequest{
RpcRequest: &requests.RpcRequest{},
}
request.InitWithApiInfo("ocr", "2019-12-30", "RecognizeBusinessLicense", "ocr", "openAPI")
request.Method = requests.POST
return
}

// CreateRecognizeBusinessLicenseResponse creates a response to parse from RecognizeBusinessLicense response
func CreateRecognizeBusinessLicenseResponse() (response *RecognizeBusinessLicenseResponse) {
response = &RecognizeBusinessLicenseResponse{
BaseResponse: &responses.BaseResponse{},
}
return
}

package linkface

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//
// Code generated by Alibaba Cloud SDK Code Generator.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// QueryLicenses invokes the linkface.QueryLicenses API synchronously
func (client *Client) QueryLicenses(request *QueryLicensesRequest) (response *QueryLicensesResponse, err error) {
    response = CreateQueryLicensesResponse()
    err = client.DoAction(request, response)
    return
}

// QueryLicensesWithChan invokes the linkface.QueryLicenses API asynchronously
func (client *Client) QueryLicensesWithChan(request *QueryLicensesRequest) (<-chan *QueryLicensesResponse, <-chan error) {
    responseChan := make(chan *QueryLicensesResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.QueryLicenses(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}
func (client *Client) QueryLicensesWithCallback(request *QueryLicensesRequest, callback func(*QueryLicensesResponse, error)) <-chan int {
result := make(chan int, 1)
err := client.AddAsyncTask(func() {
var response *QueryLicensesResponse
var err error
defer close(result)
response, err = client.QueryLicenses(request)
callback(response, err)
result <- 1
})
if err != nil {
defer close(result)
callback(nil, err)
result <- 0
}
return result
}

// QueryLicensesRequest is the request struct for api QueryLicenses
type QueryLicensesRequest struct {
*requests.RpcRequest
LicenseType requests.Integer `position:"Body" name:"LicenseType"`
PageSize requests.Integer `position:"Body" name:"PageSize"`
CurrentPage requests.Integer `position:"Body" name:"CurrentPage"`
}

// QueryLicensesResponse is the response struct for api QueryLicenses
type QueryLicensesResponse struct {
*responses.BaseResponse
RequestId string `json:"RequestId" xml:"RequestId"`
Code int `json:"Code" xml:"Code"`
Message string `json:"Message" xml:"Message"`
PageCount int `json:"PageCount" xml:"PageCount"`
PageSize int `json:"PageSize" xml:"PageSize"`
Page int `json:"Page" xml:"Page"`
Total int `json:"Total" xml:"Total"`
Success bool `json:"Success" xml:"Success"`
Data []DataItem `json:"Data" xml:"Data"`
}
// CreateQueryLicensesRequest creates a request to invoke QueryLicenses API
func CreateQueryLicensesRequest() (request *QueryLicensesRequest) {
    request = &QueryLicensesRequest{
        RpcRequest: &requests.RpcRequest{},
    }
    request.InitWithApiInfo("LinkFace", "2018-07-20", "QueryLicenses", "", "")
    return
}

// CreateQueryLicensesResponse creates a response to parse from QueryLicenses response
func CreateQueryLicensesResponse() (response *QueryLicensesResponse) {
    response = &QueryLicensesResponse{
        BaseResponse: &responses.BaseResponse{},
    }
    return
}

package imm

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//
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// Changes may cause incorrect behavior and will be lost if the code is regenerated.

import (  
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"  
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// GetDRMLicense invokes the imm.GetDRMLicense API synchronously
func (client *Client) GetDRMLicense(request *GetDRMLicenseRequest) (response *GetDRMLicenseResponse, err error) {
    response = CreateGetDRMLicenseResponse()
    err = client.DoAction(request, response)
    return
}

// GetDRMLicenseWithChan invokes the imm.GetDRMLicense API asynchronously
func (client *Client) GetDRMLicenseWithChan(request *GetDRMLicenseRequest) (<-chan
*GetDRMLicenseResponse, <-chan error) {
    responseChan := make(chan *GetDRMLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.GetDRMLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

// GetDRMLicenseWithCallback invokes the imm.GetDRMLicense API asynchronously
func (client *Client) GetDRMLicenseWithCallback(request *GetDRMLicenseRequest, callback func(response *GetDRMLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *GetDRMLicenseResponse
        var err error
        defer close(result)
        response, err = client.GetDRMLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// GetDRMLicenseRequest is the request struct for api GetDRMLicense
type GetDRMLicenseRequest struct {
    *requests.RpcRequest
    Project    string `position:"Query" name:"Project"
    DRMType    string `position:"Query" name:"DRMType"
    DRMLicense string `position:"Query" name:"DRMLicense"
}
// GetDRMLicenseResponse is the response struct for api GetDRMLicense
type GetDRMLicenseResponse struct {
  *responses.BaseResponse
  RequestId  string `json:"RequestId" xml:"RequestId"
  DeviceInfo string `json:"DeviceInfo" xml:"DeviceInfo"
  DRMData    string `json:"DRMData" xml:"DRMData"
}

// CreateGetDRMLicenseRequest creates a request to invoke GetDRMLicense API
func CreateGetDRMLicenseRequest() (request *GetDRMLicenseRequest) {
  request = &GetDRMLicenseRequest{
    RpcRequest: &requests.RpcRequest{},
  }
  request.InitWithApiInfo("imm", "2017-09-06", "GetDRMLicense", "imm", "openAPI")
  request.Method = requests.POST
  return
}

// CreateGetDRMLicenseResponse creates a response to parse from GetDRMLicense response
func CreateGetDRMLicenseResponse() (response *GetDRMLicenseResponse) {
  response = &GetDRMLicenseResponse{
    BaseResponse: &responses.BaseResponse{},
  }
  return
}

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// License is a nested struct in market response
type License struct {
    LicenseStatus string `json:"LicenseStatus" xml:"LicenseStatus"`
    LicenseCode   string `json:"LicenseCode" xml:"LicenseCode"`
    InstanceId    string `json:"InstanceId" xml:"InstanceId"`
    CreateTime    string `json:"CreateTime" xml:"CreateTime"`
    ExpiredTime   string `json:"ExpiredTime" xml:"ExpiredTime"`
    ActivateTime  string `json:"ActivateTime" xml:"ActivateTime"`
    ProductSkuId  string `json:"ProductSkuId" xml:"ProductSkuId"`
    ProductCode   string `json:"ProductCode" xml:"ProductCode"`
    ProductName   string `json:"ProductName" xml:"ProductName"`
    SupplierName  string `json:"SupplierName" xml:"SupplierName"`
    ExtendInfo    ExtendInfo `json:"ExtendInfo" xml:"ExtendInfo"`
    ExtendArray   ExtendArray `json:"ExtendArray" xml:"ExtendArray"`
}

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import (
    "github.com/aliyun/aliyun-alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/aliyun-alibaba-cloud-sdk-go/sdk/responses"
)

// DescribeLicense invokes the market.DescribeLicense API synchronously
func (client *Client) DescribeLicense(request *DescribeLicenseRequest) (response *DescribeLicenseResponse, err error) {
    response = CreateDescribeLicenseResponse()
    err = client.DoAction(request, response)
    return
}
// DescribeLicenseWithChan invokes the market.DescribeLicense API asynchronously
func (client *Client) DescribeLicenseWithChan(request *DescribeLicenseRequest) (<-chan *DescribeLicenseResponse, <-chan error) {
    responseChan := make(chan *DescribeLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.DescribeLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

// DescribeLicenseWithCallback invokes the market.DescribeLicense API asynchronously
func (client *Client) DescribeLicenseWithCallback(request *DescribeLicenseRequest, callback func(response *DescribeLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *DescribeLicenseResponse
        var err error
        defer close(result)
        response, err = client.DescribeLicense(request)
        callback(response, err)
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
    }
    return result
}
// DescribeLicenseRequest is the request struct for api DescribeLicense
type DescribeLicenseRequest struct {
    *requests.RpcRequest
    LicenseCode string `position:"Query" name:"LicenseCode"
}

// DescribeLicenseResponse is the response struct for api DescribeLicense
type DescribeLicenseResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId"
    License License `json:"License" xml:"License"
}

// CreateDescribeLicenseRequest creates a request to invoke DescribeLicense API
func CreateDescribeLicenseRequest() (request *DescribeLicenseRequest) {
    request = &DescribeLicenseRequest{
        RpcRequest: &requests.RpcRequest{
        }
    }
    request.InitWithApiInfo("Market", "2015-11-01", "DescribeLicense", "yunmarket", "openAPI")
    return
}

// CreateDescribeLicenseResponse creates a response to parse from DescribeLicense response
func CreateDescribeLicenseResponse() (response *DescribeLicenseResponse) {
    response = &DescribeLicenseResponse{
        BaseResponse: &responses.BaseResponse{
        }
    }
    return
}

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// LicenseAttribute is a nested struct in market response
type LicenseAttribute struct {
    Code  string `json:"Code" xml:"Code"
    Value string `json:"Value" xml:"Value"
}

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import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// GetUserLicense invokes the linkwan.GetUserLicense API synchronously
func (client *Client) GetUserLicense(request *GetUserLicenseRequest) (response *GetUserLicenseResponse, err error) {
    response = CreateGetUserLicenseResponse()
    err = client.DoAction(request, response)
    return
}

// GetUserLicenseWithChan invokes the linkwan.GetUserLicense API asynchronously
func (client *Client) GetUserLicenseWithChan(request *GetUserLicenseRequest) (<-chan *GetUserLicenseResponse, <-chan error) {
    responseChan := make(chan *GetUserLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.GetUserLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

// GetUserLicenseWithCallback invokes the linkwan.GetUserLicense API asynchronously
func (client *Client) GetUserLicenseWithCallback(request *GetUserLicenseRequest, callback func(response *GetUserLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *GetUserLicenseResponse
        var err error
        defer close(result)
        response, err = client.GetUserLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// GetUserLicenseRequest is the request struct for api GetUserLicense
type GetUserLicenseRequest struct {
    *requests.RpcRequest
    ApiProduct string `position:"Body" name:"ApiProduct"`
    ApiRevision string `position:"Body" name:"ApiRevision"`
}
// GetUserLicenseResponse is the response struct for api GetUserLicense

package arms

func CreateGetUserLicenseRequest() (request *GetUserLicenseRequest) {
    request = &GetUserLicenseRequest{
        RpcRequest: &requests.RpcRequest{},
    }
    request.InitWithApiInfo("LinkWAN", "2019-03-01", "GetUserLicense", "linkwan", "openAPI")
    request.Method = requests.POST
    return
}

func CreateGetUserLicenseResponse() (response *GetUserLicenseResponse) {
    response = &GetUserLicenseResponse{
        BaseResponse: &responses.BaseResponse{},
    }
    return
}

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import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)
// DescribeTraceLicenseKey invokes the arms.DescribeTraceLicenseKey API synchronously
func (client *Client) DescribeTraceLicenseKey(request *DescribeTraceLicenseKeyRequest) (response *DescribeTraceLicenseKeyResponse, err error) {
    response = CreateDescribeTraceLicenseKeyResponse()
    err = client.DoAction(request, response)
    return
}

// DescribeTraceLicenseKeyWithChan invokes the arms.DescribeTraceLicenseKey API asynchronously
func (client *Client) DescribeTraceLicenseKeyWithChan(request *DescribeTraceLicenseKeyRequest) (<-chan *DescribeTraceLicenseKeyResponse, <-chan error) {
    responseChan := make(chan *DescribeTraceLicenseKeyResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.DescribeTraceLicenseKey(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

// DescribeTraceLicenseKeyWithCallback invokes the arms.DescribeTraceLicenseKey API asynchronously
func (client *Client) DescribeTraceLicenseKeyWithCallback(request *DescribeTraceLicenseKeyRequest, callback func(response *DescribeTraceLicenseKeyResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *DescribeTraceLicenseKeyResponse
        var err error
        defer close(result)
        response, err = client.DescribeTraceLicenseKey(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
}
// DescribeTraceLicenseKeyRequest is the request struct for api DescribeTraceLicenseKey
type DescribeTraceLicenseKeyRequest struct {
    *requests.RpcRequest
}

// DescribeTraceLicenseKeyResponse is the response struct for api DescribeTraceLicenseKey
type DescribeTraceLicenseKeyResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId"`
    LicenseKey string `json:"LicenseKey" xml:"LicenseKey"`
}

// CreateDescribeTraceLicenseKeyRequest creates a request to invoke DescribeTraceLicenseKey API
func CreateDescribeTraceLicenseKeyRequest() (request *DescribeTraceLicenseKeyRequest) {
    request = &DescribeTraceLicenseKeyRequest{
        RpcRequest: &requests.RpcRequest{
        }
    }
    request.InitWithApiInfo("ARMS", "2019-08-08", "DescribeTraceLicenseKey", "arms", "openAPI")
    request.Method = requests.POST
    return
}

// CreateDescribeTraceLicenseKeyResponse creates a response to parse from DescribeTraceLicenseKey response
func CreateDescribeTraceLicenseKeyResponse() (response *DescribeTraceLicenseKeyResponse) {
    response = &DescribeTraceLicenseKeyResponse{
        BaseResponse: &responses.BaseResponse{
        }
    }
    return
}

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import (  
"github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"  
"github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// RecognizeDrivingLicense invokes the ocr.RecognizeDrivingLicense API synchronously  
func (client *Client) RecognizeDrivingLicense(request *RecognizeDrivingLicenseRequest) (response *RecognizeDrivingLicenseResponse, err error) {  
response = CreateRecognizeDrivingLicenseResponse()  
err = client.DoAction(request, response)  
return
}

// RecognizeDrivingLicenseWithChan invokes the ocr.RecognizeDrivingLicense API asynchronously  
func (client *Client) RecognizeDrivingLicenseWithChan(request *RecognizeDrivingLicenseRequest) (<-chan *RecognizeDrivingLicenseResponse, <chan error) {  
responseChan := make(chan *RecognizeDrivingLicenseResponse, 1)  
responseChan
errChan := make(chan error, 1)
err := client.AddAsyncTask(func()
    defer close(responseChan)
    defer close(errChan)
    response, err := client.RecognizeDrivingLicense(request)
    if err != nil {
        errChan <- err
    } else {
        responseChan <- response
    }
})
if err != nil {
    errChan <- err
    close(responseChan)
    close(errChan)
}
return responseChan, errChan

// RecognizeDrivingLicenseWithCallback invokes the ocr.RecognizeDrivingLicense API asynchronously
func (client *Client) RecognizeDrivingLicenseWithCallback(request *RecognizeDrivingLicenseRequest, callback func(response *RecognizeDrivingLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func()
        var response *RecognizeDrivingLicenseResponse
        var err error
        defer close(result)
        response, err = client.RecognizeDrivingLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// RecognizeDrivingLicenseRequest is the request struct for api RecognizeDrivingLicense
type RecognizeDrivingLicenseRequest struct {
    *requests.RpcRequest
    ImageType requests.Integer `position:"Body" name:"ImageType"`
    Side string `position:"Body" name:"Side"`
    ImageURL string `position:"Body" name:"ImageURL"`
}

// RecognizeDrivingLicenseResponse is the response struct for api RecognizeDrivingLicense
```go
type RecognizeDrivingLicenseResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId"
    Data      Data   `json:"Data" xml:"Data"
}

// CreateRecognizeDrivingLicenseRequest creates a request to invoke RecognizeDrivingLicense API
func CreateRecognizeDrivingLicenseRequest() (request *RecognizeDrivingLicenseRequest) {
    request = &RecognizeDrivingLicenseRequest{
        RpcRequest: &requests.RpcRequest{
            InitWithApiInfo("ocr", "2019-12-30", "RecognizeDrivingLicense", "ocr", "openAPI")
            Method = requests.POST
        }
    return
}

// CreateRecognizeDrivingLicenseResponse creates a response to parse from RecognizeDrivingLicense response
func CreateRecognizeDrivingLicenseResponse() (response *RecognizeDrivingLicenseResponse) {
    response = &RecognizeDrivingLicenseResponse{
        BaseResponse: &responses.BaseResponse{
            }
    return
}
```

### 1.596 fsnotify v1.4.9

#### 1.596.1 Available under license:
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Found in path(s):
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* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/integration_test.go
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```
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* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/inotify_poller_test.go
* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/inotify_poller.go

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* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/fsnotify_test.go

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* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/open_mode_darwin.go

1.597 influxdata-wlog 0.0.0-20160411224016-7c63b0a71ef8
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1.603 duo_web2 2.0.0
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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"
)
// * 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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}
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",
}
}
nname: 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 }} > refDiffFiles.txt
        with:
          path: sdkbase
      - name: Get Target Files
        run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
        with:
          repository: nexB/scancode-toolkit
          path: scancode-toolkit
          fetch-depth: 1
      - name: Set up Python
        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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}`

// 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 = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

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

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

package grafana

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws smithy-go/middleware"
    smithyhttp "github.com/aws smithy-go/transport/http"
// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns ...func(*Options)) (*DisassociateLicenseOutput, error) {
if params == nil {
    params = &DisassociateLicenseInput{
}
}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

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

    noSmithyDocumentSerde
}
func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
        return err
    }
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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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"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
    }
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    // // This member is required.
    LicenseArn *string

    // License version.
    Version *string

    noSmithyDocumentSerde
}
type GetLicenseOutput struct {

// License details.
License *types.License

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

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
    }
    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
    }
    return
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

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

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

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/aws/smitty-go/middleware"
    smithyhttp "github.com/aws/smitty-go/transport/http"
)
// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{
    }
}

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata
// Node ID.
NodeId *string

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}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

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

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}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
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 = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

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

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

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {
// Checkout type.
//
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

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}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.

IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.\nNodeId *string

// Signed token.
SignedToken *string

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

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}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    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 = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
}
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = 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 {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return 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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package licensemanager

import {
    "context"
    awsMiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }
    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }
    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

// Filters to scope the results. The following filters are supported:
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string
// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

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}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

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

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}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
}
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); 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",
}
} // Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
package main

)

// Deletes the specified license.   func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {   if params == nil {   params = &DeleteLicenseInput{}   }

   result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,   c.addOperationDeleteLicenseMiddlewares)   if err != nil {   return nil, err   }

   out := result.(*DeleteLicenseOutput)   out.ResultMetadata = metadata   return out, nil
}

type DeleteLicenseInput struct {

   // Amazon Resource Name (ARN) of the license.
   //   // This member is required.
   LicenseArn *string

   // Current version of the license.
   //   // This member is required.
   SourceVersion *string

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}

type DeleteLicenseOutput struct {

   // Date when the license is deleted.
   DeletionDate *string

   // License status.
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 {

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/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
}

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
}

deprecated

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
}

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

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

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

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

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

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

err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}

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

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

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

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

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

err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}

err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region), middleware.Before); err != nil {
    return err
}
func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
Region:    region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "AssociateLicense",
}
}

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

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
if params == nil {
params = &CreateLicenseInput{
}
}

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, c.addOperationCreateLicenseMiddlewares)
if err != nil {
return nil, err
}
out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

// License beneficiary.
// // This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
// // This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
// // This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
// // This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
// // This member is required.
HomeRegion *string

// License issuer.
// // This member is required.
Issuer *types.Issuer

// License name.
// // This member is required.
LicenseName *string

// Product name.
// //
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

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}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

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

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}

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

if err != nil {
    return err
}

if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    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 = 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
func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CreateLicense",
    }
}

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* Author: Jim Fulton, MIT The Open Group
* Xlib Extension-Writing Utilities
* This package contains utilities for writing the client API for various
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1.618 github.com/prometheus/common/sigv4

v0.1.0

1.618.1 Available under license :

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1.619 go-uber-org-atomic v1.9.0

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1.620 aws-sdk-go-v2 1.8.0

1.620.1 Available under license:
// 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 received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...
func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
    params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // ProductSKU
    //
    // * Status
    //
    // * Fingerprint
    //
    // * IssuerName
    //
    // * Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
type ListReceivedLicensesOutput struct {

    // Received license details.
    Licenses []types.GrantedLicense

    // Token for the next set of results.
    NextToken *string

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

    noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {

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 }}
  > refDiffFiles.txt
- name: Get Target Files
  run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Get Diff
  run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ 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
  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 ( 

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
    c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string

    noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {

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

    noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }

    return 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
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns ...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{
        }
    }
    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
        c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
}
out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

  // The type of license to remove from the workspace.
  //   //
  //   // This member is required.
  LicenseType types.LicenseType

  // The ID of the workspace to remove the Grafana Enterprise license from.
  //   //
  //   // This member is required.
  WorkspaceId *string

  noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

  // A structure containing information about the workspace.
  //   //
  //   // This member is required.
  Workspace *types.WorkspaceDescription

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

  noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
  if err != nil {
    return err
  }

  err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
  if err != nil {
    return err
  }

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

  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = aws.SetRawResponseToMetadata(stack); err != nil {
    return err
}
if err = aws.SetRecordResponseTiming(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 = 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",
    }
}

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"

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// Code generated by smithy-go-codegen DO NOT EDIT.
// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {
    // Amazon Resource Name (ARN) of the license.
    // //
    // // This member is required.
    LicenseArn *string

    // License version.
    Version *string

    noSmithyDocumentSerde
}

type GetLicenseOutput struct {
    // License details.
    License *types.License

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

    noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != 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 = addHTTPSingerV4Middleware(stack, options); err != nil {
  return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
}
if err = addClientUserAgent(stack); err != nil {
  return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
  return err
}
```go
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{
    }
}

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
```
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string

    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.\nNodeId *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 = 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 = 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",
    }
package licensemanager

import {
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
  if params == nil {
    params = &CheckoutLicenseInput{
  }

  result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
    c.addOperationCheckoutLicenseMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*CheckoutLicenseOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type CheckoutLicenseInput struct {

  // Checkout type.
  //
  // This member is required.
  CheckoutType types.CheckoutType

  // Unique, case-sensitive identifier that you provide to ensure the idempotency of
  // the request.
  //
  // This member is required.
  ClientToken *string

  // License entitlements.
  //
  // This member is required.
}
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

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.
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 = 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
    }
}
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 {
    return err 
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err 
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err 
}
return 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
  }

  out := result.(*ListLicensesOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type ListLicensesInput struct {

  // Filters to scope the results. The following filters are supported:
  // 
  // * 
  // Beneficiary
  // 
  // * ProductSKU
  // 
  // * Fingerprint
  // 
  // * Status
  Filters []types.Filter

  // Amazon Resource Names (ARNs) of the licenses.
  LicenseArns []string

  // Maximum number of results to return in a single call.
  MaxResults *int32

  // Token for the next set of results.
  NextToken *string

  noSmithyDocumentSerde
}

type ListLicensesOutput struct {

  // License details.
  Licenses []types.License

  // Token for the next set of results.
NextToken *string

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

noSmithyDocumentSerde

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != 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
    }
}
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

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

// 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
}
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.

}
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
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
}

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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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/oio/OioByteStreamChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/sctp/SctpChannelOption.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/rxtx/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/rxtx/RxtxChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/rxtx/RxtxChannelOption.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/rxtx/RxtxDeviceAddress.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/rxtx/RxtxChannelConfig.java
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// https://tools.ietf.org/html/rfc7540#section-8.1.2.2 makes a special exception for TE

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2EmptyDataFrameConnectionDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2ControlFrameLimitEncoder.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/HpackStaticTable.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/resolver/dns/AuthoritativeDnsServerCache.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/resolver/dns/DirContextUtils.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/NoopDnsCnameCache.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/sctp/SctpInboundByteStreamHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/traffic/PackageInfo.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/traffic/TrafficMessageCompletionHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/traffic/TrafficMessageDecoder.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/memcache/LastMemcacheContent.java
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/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its {@link ChannelPipeline}. 
 *
 * <h3>Sub-types</h3>
 * <p>
 * {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its subtypes:
 * <ul>
 * <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
 * <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
 * </ul>
 *
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
 * <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
 * <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
 * </ul>
 *
 * For more information, please refer to the documentation of each subtype.
 * </p>
 *
 * <h3>The context object</h3>
 * <p>
 * A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
 * {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the [@link ChannelHandler] can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using [@link AttributeKey]s) which is specific to the handler.

* 
* <h3>State management</h3>

* A [@link ChannelHandler] often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends [@link SimpleChannelInboundHandler]<Message> {
*     private boolean loggedIn;
*
*     @Override
*     public void channelRead0([@link ChannelHandlerContext] ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             loggedIn = true;
*         } else if (message instanceof GetDataMessage) {
*             if (loggedIn) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
* }
* ...  
* }
* <pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where an unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See [@link ChannelInitializer#initChannel(Channel)].
* public class DataServerInitializer extends [@link ChannelInitializer]<@link Channel> {
*     @Override
*     public void initChannel(@link Channel channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* }
* </pre>
Using `AttributeKey`s

Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use `AttributeKey`s which is provided by `ChannelHandlerContext`:

```java
public interface Message {
    // your methods here
}

@Sharable
public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private final AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
}
```

Now that the state of the handler is attached to the `ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends ChannelInitializer<Channel> {

    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```
The `@Sharable` annotation

In the example above which used an `AttributeKey`, you might have noticed the `@Sharable` annotation.

If a `ChannelHandler` is annotated with the `@Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `ChannelPipeline`s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

Please refer to the `ChannelHandler`, and `ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/StreamBufferingEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/AbstractInboundHttp2ToHttpAdapterBuilder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/MathUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/ByteProcessor.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/WeightedFairQueueByteDistributor.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2PromisedRequestVerifier.java
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*/
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the {@code TCP_QUICKACK} option on the socket.
 * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a> for more details.
 */

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jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserverFactory.java
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ar/jar/io/netty/resolver/dns/SequentialDnsServerAddressStreamProvider.java
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*/
/*

* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
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*/

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/sctp/SctpOutboundByteStreamHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpResponseStreamIdHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/DefaultHttpContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/telnet/TelnetClient.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/PingWebSocketFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocketx/server/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/ChannelInputShutdownEvent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/channel/socket/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/StringToByteOutput.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/Attribute.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/rtsp/RtspObjectEncoder.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/channel/FixedRecvByteBufAllocator.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/channel/ChannelException.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/http/multipart/HttpPostMultipartRequestDecoder.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/compression/ZlibDecoder.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/http/DefaultHttpRequest.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/socks/SocksAuthRequestDecoder.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
*/opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/http/HttpContentCompressor.java
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jar/io.netty.handler.codec.http.multipart/FileUpload.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4.1-63-final-sources-
jar/io.netty.example.factorial/FactorialServerHandler.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4.1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/netty-all-4.1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/netty-all-4.1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/netty-all-4.1-63-final-sources-
jar/io.netty.channel/epoll/EpollDatagramChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4.1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/netty-all-4.1-63-final-sources-
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jar/io.netty.channel/oio/AbstractOioChannel.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4.1-63-final-sources-
jar/io.netty.handler.logging/package-info.java
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jar/io.netty.example/factorial/FactorialServer.java
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jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker00.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/example/echo/EchoServer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/http/websocketx/WebSocketHandshakeException.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/channel/group/CombinedIterator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/example/http/upload/HttpUploadClientInitializer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/channel/local/LocalChannelRegistry.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/channel/socket/DatagramChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/channel/DefaultChannelPipeline.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/example/udt/echo/bytes/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/socks/SocksAuthRequest.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/socks/SocksMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/http/multipart/AbstractDiskHttpData.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/example/http/upload/HttpUploadServerInitializer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/example/echo/EchoClient.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/example/qotm/QuoteOfTheMomentClientHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/utils/concurrent/SucceededFuture.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/utils/concurrent/EventExecutorGroup.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/multipart/InterfaceHttpPostRequestDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/objectecho/ObjectEchoClient.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/FailedChannelFuture.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/compression/JZlibEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/DecoderException.java
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*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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 */

/*
 * Set the \{code TCP_MD5SIG\} option on the socket. See \{code linux/tcp.h\} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

Found in path(s):
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SupportsIterator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddChunk.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicQueueFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseSpscLinkedAtomicArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/util/internal/shaded/org/jctools/queues/MpscCompoundQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedArrayQueue.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscLinkedQueue.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/util/internal/shaded/org/jctools/queues/package-info.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/util/internal/shaded/org/jctools/queues/QueueFactory.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources.jar/io/netty/channel/kqueue/KQueueDatagramChannel.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources.jar/io/netty/handler/codec/http2/Http2WindowUpdateFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources.jar/io/netty/handler/codec/http2/Http2FrameStream.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources.jar/io/netty/handler/codec/http2/InboundHttpToHttp2Adapter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources.jar/io/netty/handler/codec/smtp/SmtpRequests.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources.jar/io/netty/handler/codec/smtp/SmtpCommand.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources.jar/io/netty/handler/codec/http2/Http2FrameStreamException.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources.jar/io/netty/handler/codec/write/WriteBufferWaterMark.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources.jar/io/netty/handler/codec/haproxy/HAProxyTLV.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources.jar/io/netty/handler/codec/smtp/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources.jar/io/netty/channel/kqueue/AbstractKQueueServerChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources.jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources.jar/io/netty/channel/ChannelInboundInvoker.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources.jar/io/netty/channel/dns/DnsCache.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources.jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java
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* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/channel/socket/DuplexChannel.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/handler/codec/http2/Http2ResetFrame.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/channel/kqueue/KQueueChannelOption.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/handler/codec/smtp/SmtpResponseDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/channel/socket/DuplexChannel.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/handler/codec/http2/Http2PingFrame.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/handler/flush/FlushConsolidationHandler.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/channel/kqueue/KQueueServerChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/handler/codec/DateFormatter.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/handler/codec/dns/DnsPtrRecord.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/resolver/RoundRobinInetAddressResolver.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/resolver/dns/NoopDnsCache.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/channel/kqueue/KQueueServerChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/handler/codec/DateFormatter.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/handler/codec/dns/DnsPtrRecord.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/handler/flush/FlushConsolidationHandler.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/handler/codec/CompressionUtil.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1150446063_1618916486.95/netty-all-4-1-63-final-sources.jar/netty/handler/codec/compression/CompressionUtil.java
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jar/io/netty/handler/codec/http/HttpMessageDecoderResult.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/unix/SegmentedDatagramPacket.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslContextOption.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/epoll/SegmentedDatagramPacket.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/SslContextOption.java
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A decoder that splits the received \{@link ByteBuf\}s dynamically by the
value of the length field in the message. It is particularly useful when you
decode a binary message which has an integer header field that represents the
length of the message body or the whole message.

The value of the length field in this example is \texttt{12} (0x0C) which
represents the length of "HELLO, WORLD". By default, the decoder assumes
that the length field represents the number of the bytes that follows the
length field. Therefore, it can be decoded with the simplistic parameter
combination.

Because we can get the length of the content by calling
\{@link ByteBuf#readableBytes()\}, you might want to strip the length
field by specifying \texttt{initialBytesToStrip}. In this example, we
specified \texttt{2}, that is same with the length of the length field, to
strip the first two bytes.
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.

```
lengthFieldOffset   = 0
lengthFieldLength   = 3
lengthAdjustment   = 2
initialBytesToStrip = 0
```

BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
| Length   | Header 1 | Actual Content |----->| Length   | Header 1 | Actual Content |
| 0x00000C | 0xCAFE   | "HELLO, WORLD" |      | 0x00000C | 0xCAFE   | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `<tt>initialBytesToSkip</tt>`.

```
lengthFieldOffset   = 1 (= the length of HDR1)
lengthFieldLength   = 2
lengthAdjustment   = 1 (= the length of HDR2)
initialBytesToStrip = 3 (= the length of HDR1 + LEN)
```

BEFORE DECODE (16 bytes)      AFTER DECODE (13 bytes)
+-------+--------+--------+----------------+      +--------+----------------+
| HDR1  | Length | HDR2   | Actual Content |----->| HDR2   | Actual Content |
| 0xCA  | 0x000C | 0xFE   | "HELLO, WORLD" |      | 0xFE   | "HELLO, WORLD" |
+-------+--------+--------+----------------+      +--------+----------------+

This is a combination of all the examples above. There are the prepended header at the beginning of 5 bytes header, do not strip header

```
lengthFieldOffset   = 0
lengthFieldLength   = 3
lengthAdjustment   = 2
initialBytesToStrip = 0
```

BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
| Length   | Header 1 | Actual Content |----->| Length   | Header 1 | Actual Content |
| 0x00000C | 0xCAFE   | "HELLO, WORLD" |      | 0x00000C | 0xCAFE   | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `<tt>initialBytesToSkip</tt>`.

```
lengthFieldOffset   = 1 (= the length of HDR1)
lengthFieldLength   = 2
lengthAdjustment   = 1 (= the length of HDR2)
initialBytesToStrip = 3 (= the length of HDR1 + LEN)
```

BEFORE DECODE (16 bytes)      AFTER DECODE (13 bytes)
+-------+--------+--------+----------------+      +--------+----------------+
| HDR1  | Length | HDR2   | Actual Content |----->| HDR2   | Actual Content |
| 0xCA  | 0x000C | 0xFE   | "HELLO, WORLD" |      | 0xFE   | "HELLO, WORLD" |
+-------+--------+--------+----------------+      +--------+----------------+
Let's give another twist to the previous example. The only difference from
the previous example is that the length field represents the length of the
whole message instead of the message body, just like the third example.
We have to count the length of HDR1 and Length into \textit{lengthAdjustment}.
Please note that we don't need to take the length of HDR2 into account
because the length field already includes the whole header length.

\begin{verbatim}
<table>
<thead>
<tr>
<th>lengthFieldOffset</th>
<th>lengthFieldLength</th>
<th>lengthAdjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>-3</td>
</tr>
</tbody>
</table>

BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)

+-------+------|      +--------+----------------+      +-------+----------------+
| HDR1  | Length| HDR2 | Actual Content| ----->| HDR2 | Actual Content |
| 0xCA  | 0x0010| 0xFE | "HELLO, WORLD"|      | 0xFE | "HELLO, WORLD" |
+-------+------|      +--------+----------------+      +-------+----------------+
\end{verbatim}

@see LengthFieldPrepender

*/

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jar/io/netty/handler/codec/http/cors/CorsHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/cors/CorsConfig.java
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jar/io/netty/handler/codec/redis/FixedRedisMessagePool.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http2/helloworld/multiplex/server/HelloWorldHttp2Handler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/ErrorRedisMessage.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/RedisCodecException.java
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jar/io/netty/handler/codec/redis/FullBulkStringRedisMessage.java
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jar/io/netty/handler/codec/redis/RedisMessagePool.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/RedisArrayAggregator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/SimpleStringRedisMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/BulkStringRedisContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/redis/RedisMessage.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/search/SearchProcessorFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/search/KmpSearchProcessorFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/helloworld/frame/client/Http2ClientFrameInitializer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/helloworld/frame/client/Http2ClientStreamFrameResponseHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/search/MultiSearchProcessor.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/search/AhoCorasicSearchProcessorFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/search/MultiSearchProcessorFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/search/MultiSearchProcessor.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http2/helloworld/frame/client/Http2FrameClient.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/search/MultiSearchProcessor.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodDecryptTask.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/internal/tcnative/CertificateVerifierTask.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodSignTask.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethod.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/internal/tcnative/SSLTask.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/internal/tcnative/CertificateCallbackTask.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java

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1.636 bson 0.5.10

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Found in path(s):
* /opt/cola/permits/1157342329_1619545918.03/0/bson-0-5-10-1-tar-gz/bson-0.5.10/bson/py3compat.py
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* /opt/cola/permits/1157342329_1619545918.03/0/bson-0-5-10-1-tar-gz/bson-0.5.10/bson/c codec.py
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* /opt/cola/permits/1157342329_1619545918.03/0/bson-0-5-10-1-tar-gz/bson-0.5.10/bson/objectid.py
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Found in path(s):
* /opt/cola/permits/1157342329_1619545918.03/0/bson-0-5-10-1-tar-gz/bson-0.5.10/bson/__init__.py
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bson
====

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   :target: https://github.com/py-bson/bson

Independent BSON codec for Python that doesn't depend on MongoDB. The bson
ObjectId implementation is forked from the PyMongo project, licensed under
the Version 2.0 Apache License.

Installation
------------

.. sourcecode:: bash
~ $ python setup.py install

or can use pip

.. sourcecode:: bash

~ $ pip install bson

Quick start
-----------

.. sourcecode:: python

>>> import bson
>>> a = bson.dumps({'A':[1,2,3,4,5,"6", u"7", {'C':u"DS"}]})
>>> b = bson.loads(a)
>>> b
{'A': [1, 2, 3, 4, 5, '6', u'7', {'C': u'DS'}]}

Sending and receiving BSON objects to and from network sockets.

.. sourcecode:: python

>>> from gevent import monkey, socket
>>> monkey.patch_all()

>>> import bson
>>> bson.patch_socket()
>>> s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
>>> s.connect(('127.0.0.1', 12345))
>>> s.sendobj({u"message" : "hello!"})

Found in path(s):
* /opt/cola/permits/1157342329_1619545918.03/0/bson-0-5-10-1-tar-gz/bson-0.5.10/README.rst

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Metadata-Version: 1.1
Name: bson
Version: 0.5.10
Summary: BSON codec for Python
Home-page: http://github.com/py-bson/bson
Author: Ayun Park
Author-email: iamparkayun@gmail.com
License: BSD
Description: Independent BSON codec for Python that doesn't depend on MongoDB.
1.637 mock v1.3.1

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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{}
// 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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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/logging/LoggingHandler.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/stream/ChunkedFile.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/ssl/SslHandler.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/logging/LogLevel.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/timeout/IdleStateHandler.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/timeout/WriteTimeoutException.java
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/ssl/ssl/package-info.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/timeout/IdleState.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/timeout/TimeoutException.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/timeout/package-info.java
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/timeout/IdleState.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/timeout/TimeoutException.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/timeout/package-info.java
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/pcap/PcapWriter.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/pcap/UDPPacket.java
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1.jar/io/netty/handler/ipfilter/package-info.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1.jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1.jar/io/netty/handler/ssl/JdkSslServerContext.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1.jar/io/netty/handler/ssl/OpenSsl.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1.jar/io/netty/handler/ipfilter/package-info.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1.jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1.jar/io/netty/handler/ssl/Java7SslParametersUtils.java
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1.jar/io/netty/handler/ssl/OpenSslContext.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1.jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar.io/netty/handler/pcap/PcapWriteHandler.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1.jar/io/netty/handler/pcap/PcapHeaders.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1.jar/io/netty/handler/pcap/package-info.java
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  jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/ClientAuth.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java
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  jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
  jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
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jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
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* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/ssl/PemValue.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-jar/io/netty/handler/ssl/OpenSslCertificateException.java
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jar/io/netty/handler/ipfilter/IpSubnetFilter.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
jar/io/netty/handler/ssl/SslClosedEngineException.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
jar/io/netty/handler/ssl/SslTrustManagerFactoryBuilder.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
jar/io/netty/handler/logging/ByteBufFormat.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java
* /opt/cola/permits/1168237012_1621962037.41/0/netty-handler-4-1-63-final-sources-1-
jar/io/netty/handler/address/ResolveAddressHandler.java
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  jar/io/netty/handler/ssl/util/SelfSignedCertificate.java

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* /opt/cola/permits/1212207596_1633726302.78/0/helidon-config-yaml-1-2-0-sources-1-jar/io/helidon/config/yaml/package-info.java
* /opt/cola/permits/1212207596_1633726302.78/0/helidon-config-yaml-1-2-0-sources-1-jar/io/helidon/config/yaml/YamlConfigParserBuilder.java
* /opt/cola/permits/1212207596_1633726302.78/0/helidon-config-yaml-1-2-0-sources-1-jar/io/helidon/config/yaml/internal/package-info.java
* /opt/cola/permits/1212207596_1633726302.78/0/helidon-config-yaml-1-2-0-sources-1-jar/io/helidon/config/yaml/internal/YamlFileTypeDetector.java

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* /opt/cola/permits/1212207596_1633726302.78/0/helidon-config-yaml-1-2-0-sources-1.jar/io/helidon/config/yaml/internal/YamlConfigParser.java
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io.helidon.config.yaml.internal.YamlConfigParser

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* /opt/cola/permits/1212207596_1633726302.78/0/helidon-config-yaml-1-2-0-sources-1.jar/META-INF/services/io.helidon.config.spi.ConfigParser
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* /opt/cola/permits/1212207596_1633726302.78/0/helidon-config-yaml-1-2-0-sources-1.jar/META-INF/maven/io.helidon.config/helidon-config-yaml/pom.xml
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* /opt/cola/permits/1212207596_1633726302.78/0/helidon-config-yaml-1-2-0-sources-1-jar/META-INF/services/java.nio.file.spi.FileTypeDetector

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

## Usage

```
update-license go_files...
```

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    "testing"
)

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

"MIT",
}

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

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

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1.668 xz 5.2.4 1

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Upstream-Name: XZ Utils
Upstream-Contact:
Lasse Collin <lasse.collin@tukaani.org>
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To: Jonathan Nieder <jrnieder@gmail.com>
Subject: Re: XZ utils for Debian
Date: Sun, 19 Jul 2009 13:28:23 +0300
Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

[..]

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L. Peter Deutsch
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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)
  }
}

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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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1.673 x-sys 0.0.0-20210615035016-665e8c7367d1

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1.674 github.com/vapourismo/knx-go 0.0.0-20201122213738-75fe09ace330
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1.676 activation 2.0.0

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1.680 github.com/jackc/pgio 1.0.0

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1.681 diskv v2.0.1+incompatible

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1.682 docker 20.10.8+incompatible

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cpan/IPC-Cmd/*
cpan/Module-Load/*
cpan/Module-Load-Conditional/*
cpan/Module-Loaded/*
cpan/Package-Constants/*
cpan/Params-Check/*
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cpan/Locale-Maketext-Simple/t/po_with_i_default/fr.po
cpan/Locale-Maketext-Simple/t/po_with_i_default/en.po

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cpan/Tie-RefHash/*
cpan/Win32API-File/*
dist/ExtUtils-Install/*
dist/Math-BigInt/*
dist/Math-BigInt-FastCalc/*
dist/Math-BigRat/*
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dist/Dumpvalue/*
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dist/ExtUtils-Manifest/*
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dist/Safe/*
ext/Fcntl/*
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1.690 kubernetes-component-base 0.18.6

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1.692 debianutils 4.8.1.1

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1.696 protobuf v1.23.0

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1.702 groupcache v0.0.0-20191227052852-215e87163ea7

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Version 3, 29 June 2007

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This package contains a modified version of ca-bundle.crt:

c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.

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@(#) SRCFile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes the various releases.

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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package types

import "time"

// FeatureType store features types
type FeatureType string

const (

    // HA means High Availability
    HA = FeatureType("HA")

    // DEV means developer licence
    DEV = FeatureType("DEV")

    // TRIAL means trial licence
    TRIAL = FeatureType("TRIAL")
)

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane

type Licence struct {

    ArrayUUID string `json:"arrayUUID,omitempty"`
    ClusterID string `json:"clusterID,omitempty"`
    CustomerID string `json:"customerID"`
    CustomerName string `json:"customerName"`
    Storage int `json:"storage"`
    ValidUntil time.Time `json:"validUntil"`
    LicenceType string `json:"licenceType"`
    Features map[FeatureType]bool `json:"features"`
    Unregistered bool `json:"unregistered"`
}

// FeatureType store features types

const (

    // HA means High Availability
    HA = FeatureType("HA")

    // DEV means developer licence
    DEV = FeatureType("DEV")

    // TRIAL means trial licence
    TRIAL = FeatureType("TRIAL")
)
// LicenceKeyContainer - stores a licence key
type LicenceKeyContainer struct {
    Key string `json:"key"
}

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin "%v"", n.Plugin)
    } else {
        s += fmt.Sprintf("Option "%v" in plugin "%v"", n.Option, n.Plugin)
    }
    if n.Severity == SevUnsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == SevNewDefault {
        s += "is new default in " + n.Version + "."
    } else {
        s += fmt.Sprintf("%s %s", n.Plugin, n.Option)
    }
    return s
}
s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const {
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    SevDeprecated = "deprecated" // deprecated, but still completely functional
    SevIgnored    = "ignored"    // if included in the corefile, it will be ignored by CoreDNS
    SevRemoved    = "removed"    // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    SevNewDefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool
    // The following statuses are used for selecting/filtering notifications
    SevAll = "all" // show all statuses
}

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package storageos

import (  
    "encoding/json"
    "github.com/storageos/go-api/types"
)

const (  
    // licenceAPIPrefix is a partial path to the HTTP endpoint.  
    licenceAPIPrefix = "licencing"
)

// Licence returns the current licence on the server.  
func (c *Client) Licence() (*types.Licence, error) {  
    resp, err := c.do("GET", licenceAPIPrefix, doOptions{})  
    if err != nil {  
        return nil, err  
    }  
    defer resp.Body.Close()  
    licence := &types.Licence{}  
    if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {  
        return nil, err  
    }  
    return licence, nil  
}

// LicenceApply applies a licence on the server.  
func (c *Client) LicenceApply(licenceKey string) error {  
    _, err := c.do("POST", licenceAPIPrefix, doOptions{  
        data: &types.LicenceKeyContainer{Key: licenceKey},  
    })  
    return err  
}

// LicenceDelete removes the current licence.  
func (c *Client) LicenceDelete() error {  
    resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{})  
    if err != nil {  
        return err  
    }  
    return resp.Body.Close()  
}
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tomb - support for clean goroutine termination in Go.

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package spec

// License information for the exposed API.

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

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package simulator

import ( 
   "github.com/vmware/govmomi/object"
   "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: "feature",
       Value: types.KeyValue{
       }}
   }
}
Key:  "dvs",
Value: "vSphere Distributed Switch",
},
},
},
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
m := &LicenseManager{}
m.Self = ref
m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

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

return m
}

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 {
    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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Copy files to and from Containers in a cluster.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```
## Specify the Container

Specify the Container within a Pod running multiple containers.

```
- `--c <container-name>`
```

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
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tomb - support for clean goroutine termination in Go.

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1.729 aws-sdk-go 1.40.37

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1.730 julienschmidt-httprouter v1.3.0

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1.731 prometheus-procfs 0.1.3

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

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1.732 v2 v2.0.0

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1.733 attr 2.4.48 4

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(For example, a function in a library to compute square roots has
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.744 go-openapi-spec 0.20.3
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package spec

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

var license = License{
    LicenseProps:      LicenseProps{Name: "the name", URL: "the url"},
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{
        "x-license": "custom term"}}
}

const licenseJSON = `{
    "name": "the name",
    "url": "the url",
    "x-license": "custom term"
}`

func TestIntegrationLicense(t *testing.T) {
    // const licenseYAML = "name: the name\n    // url: the url"

    b, err := json.MarshalIndent(license, "", "	")
    if assert.NoError(t, err) {
        assert.Equal(t, licenseJSON, string(b))
    }

    actual := License{}
    err = json.Unmarshal([]byte(licenseJSON), &actual)
    if assert.NoError(t, err) {
        assert.EqualValues(t, license, actual)
    }
}

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package spec

import {
"encoding/json"
    "github.com/go-openapi/swag"
}

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

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return b1, b2, nil
}
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1.747 v3 v3.0.2

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1.755 azure-storage-blob-go v0.13.0

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1.756 pyasn1-modules 0.0.5

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1.757 github.com/go-ping/ping 0.0.0-20210201095549-52eed920f98c

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1.758 groupcache 0.0.0-20191227052852-215e87163ea7

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Gocheck - A rich testing framework for Go

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1.783 ncurses 6.0+20161126 1+deb9u2

1.783.1 Available under license:

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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
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1.784 netbase 5.6
1.784.1 Available under license :

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1.785 procfs v0.1.3
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1.786 kubernetes-klog 2.2.0

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5eff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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1.798 jaxb-core 2.3.0

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1.801 githubcomgolangprotobuf v1.5.2

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1.804 blang-semver 3.5.0+incompatible

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1.805 client-model v0.2.0

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1.806 gosnmp 1.29.0

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1.818 groupcache v0.0.0-20210331224755-41bb18bfe9da

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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{
  // 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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1.828 github.com/renekroon/ttlcache/v2

v2.1.0

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1.835 jackson-module-jsonschema 2.9.8

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1.836 restlet 2.4.3

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/**
 * Constructor.
 *
 * @param server
 * @param exchange
 * @param confidential
 */

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 */
/**
 * Authorizer allowing only confidential calls. Confidential calls typically come through HTTPS server connectors.
 *
 * @author Jerome Louvel
 */

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* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/ExpectationWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/DecoderService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/Validator.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/Template.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Put.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/local/Entity.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/PreferenceWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/DateWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/SystemUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/DateUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/CorsFilter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/Decoder.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/DecoderService.java
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- jar/org/restlet/engine/security/AuthenticatorUtils.java
- * /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/component/ServerRouter.java
- * /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/TagReader.java
- * /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/component/ComponentXmlParser.java
- * /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/io/WakeupListener.java
- * /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/ConnectorHelper.java
- * /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/CookieReader.java
- * /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/ssl/DefaultSslContextFactory.java
- * /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/adapter/ServerAdapter.java
- * /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/ClientInfo.java
- * /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/MemoryRealm.java
- * /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/Variable.java
- * /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/InputRepresentation.java
- * /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/ChannelRepresentation.java
- * /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/adapter/ServerAdapter.java
- * /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/DefaultSaxHandler.java
- * /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/RecipientInfoWriter.java
- * /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/RangeFilter.java

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* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/HttpProtocolHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/CookieSettingReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/Authorizer.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/StringRepresentation.java
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* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/ssl/WrapperSslServerSocketFactory.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/Redirector.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/HttpBasicHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/ListUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/FormUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/ConnectionClosingRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/io/NbChannelOutputStream.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/ssl/WrapperSslSocketFactory.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/MetadataService.java
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* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/HeaderUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/MapResolver.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/ServerInfo.java
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* /opt/cola/permits/1122075426_1629910343.42/0/org/restlet-2-4-3-sources-jar/org/restlet/engine/log/LoggingThreadFactory.java
* /opt/cola/permits/1122075426_1629910343.42/0/org/restlet-2-4-3-sources-jar/org/restlet/engine/log/DefaultAccessLogFormatter.java
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* /opt/cola/permits/1122075426_1629910343.42/0/org/restlet-2-4-3-sources-jar/org/restlet/engine/util/SetUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org/restlet-2-4-3-sources-jar/org/restlet/engine/resource/MethodAnnotationInfo.java
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* /opt/cola/permits/1122075426_1629910343.42/0/org/restlet-2-4-3-sources-jar/org/restlet/representation/DigesterRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org/restlet-2-4-3-sources-jar/org/restlet/representation/AppendableRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org/restlet-2-4-3-sources-jar/org/restlet/engine/local/ZipClientHelper.java
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/** The confidentiality. */
/**
 * Constructor.
 *
 * @param schemeName
 *      The scheme name.
 *
 * @param name
 *      The unique name.
 *
 * @param description
 *      The description.
 *
 * @param defaultPort
 *      The default port.
 *
 * @param confidential
 *      The confidentiality.
 */
/**
 * Indicates if the protocol guarantees the confidentially of the messages
 * exchanged, for example via a SSL-secured connection.
 *
 * @return True if the protocol is confidential.
 */

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 */
/**
 * Indicates if the call came over a confidential channel such as an
 * SSL-secured connection.
 *
 * @return True if the call came over a confidential channel.
 */

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 */
/** Indicates if the call is confidential. */
/**
 * Indicates if the confidentiality of the call is ensured (ex: via SSL).
 *
 * @return True if the confidentiality of the call is ensured (ex: via SSL).
 */
/**
 * Indicates if the confidentiality of the call is ensured (ex: via SSL).
 *
 * @param confidential True if the confidentiality of the call is ensured (ex: via
 * SSL).
 */

Found in path(s):
 * /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/adapter/Call.java
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*/
/**
  * Sets the reference comparator based on the more friendly "Alphanum
  * Algorithm" created by David Koelle. The internal implementation used is
  * based on an optimized public domain implementation provided by Rob
  * Heittman from the Solertium Corporation.
  *
  * @see <a href="http://www.davekoelle.com/Alphanum.html">The original
       Alphanum Algorithm from David Koelle</a>
  * @see #setComparator(Comparator)
  */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Directory.java
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  */
/**
  * Application service capable of running and scheduling tasks asynchronously.
  * The service instance returned will not invoke the runnable task in the

Open Source Used In kASA v1.5 8423
In addition to allowing pooling, this method will ensure that the threads executing the tasks will have the thread local variables copied from the calling thread. This will ensure that call to static methods like `Application#getCurrent()` will still work.

Also, note that this executor service will be shared among all Restlets and Resources that are part of your context. In general this context corresponds to a parent Application's context. If you want to have your own service instance, you can use the `TaskService#wrap(ScheduledExecutorService)` method to ensure that thread local variables are correctly set.

@Author Jerome Louvel
@Author Doug Lea (docs of ExecutorService in public domain)
@Author Tim Peierls

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 */
/**
 * Optimized public-domain implementation of a Java alphanumeric sort.
 */
* This implementation uses a single comparison pass over the characters in a
* CharSequence, and returns as soon as a differing character is found, unless
* the difference occurs in a series of numeric characters, in which case that
* series is followed to its end. Numeric series of equal length are compared
* numerically, that is, according to the most significant (leftmost) differing
* digit. Series of unequal length are compared by their length.
* <p>
* This implementation appears to be 2-5 times faster than alphanumeric
* comparators based based on substring analysis, with a lighter memory
* footprint.
* <p>
* This alphanumeric comparator has approximately 20%-50% the performance of the
* lexical String.compareTo() operation. Character sequences without numeric
* data are compared more quickly.
* <p>
* Dedicated to the public domain by the original author:
* http://creativecommons.org/licenses/publicdomain/
* <p>
* @author Rob Heittman, <a href="http://www.solertium.com">Solertium
* Corporation</a>
* */

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*/

/**
 * Implemented based on the [@link Protocol#isConfidential()] method for the
 * request's protocol returned by [@link Protocol#getProtocol()];
 */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2.4-3-sources.jar/org/restlet/Request.java

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 */

/**
 * Indicates if this service is acting in HTTP or HTTPS mode.
 *
 * @param confidential
 * @param confidential
 * True if this service is acting in HTTP or HTTPS mode.
 */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2.4-3-sources.jar/org/restlet/engine/connector/NetServerHelper.java
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 */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/adapter/ServerCall.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/resource/AnnotationUtils.java

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*/
/**

* Indicates if the message was or will be exchanged confidentially, for
* example via a SSL-secured connection.

* @return True if the message is confidential.
* @see Request#isConfidential()
*/
Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Message.java
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 */
/**
 * Resolves a name into a value. By default, the {@link #createResolver(Map)}
 * static method can adapt a Java map into a resolver. Another useful method is
 *  {@link #createResolver(Request, Response)}, which can expose a Restlet call
 * into a compact data model, with the following variables:
 *
 * <table>
 * <tr>
 * <th>Model property</th>
 * <th>Variable name</th>
 * <th>Content type</th>
 * </tr>
 * <tr>
 * <td>request.confidential</td>
 * <td>c</td>
 * <td>boolean (true|false)</td>
 * </tr>
 * <tr>
 * <td>request.clientInfo.address</td>
 * </tr>
 * <tr>
 * <td>request.clientInfo.address</td>
 * </tr>
 */
<table>
<thead>
<tr>
<th>Request/Response</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>request.clientInfo.upstreamAddress</td>
<td></td>
<td>String</td>
</tr>
<tr>
<td>request.clientInfo.agent</td>
<td></td>
<td>String</td>
</tr>
<tr>
<td>request.challengeResponse.identifier</td>
<td></td>
<td>String</td>
</tr>
<tr>
<td>request.challengeResponse.scheme</td>
<td></td>
<td>String</td>
</tr>
<tr>
<td>request.date</td>
<td></td>
<td>Date (HTTP format)</td>
</tr>
<tr>
<td>request.entity.characterSet</td>
<td></td>
<td>String</td>
</tr>
<tr>
<td>response.entity.characterSet</td>
<td></td>
<td>String</td>
</tr>
<tr>
<td>response.entity.encoding</td>
<td></td>
<td>String</td>
</tr>
</tbody>
</table>

*cia* | *String* |
*cig* | *String* |
*cri* | *String* |
*crs* | *String* |
*d* | *Date (HTTP format)* |
*ee* | *String* |
*ECS* | *String* |
*EE* | *String* |
<table>
<thead>
<tr>
<th>Request Field</th>
<th>Request Value</th>
<th>Response Field</th>
<th>Response Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>request.entity.expirationDate</td>
<td>eed</td>
<td>response.entity.expirationDate</td>
<td>EED</td>
</tr>
<tr>
<td>Date (HTTP format)</td>
<td></td>
<td>Date (HTTP format)</td>
<td></td>
</tr>
<tr>
<td>request.entity.language</td>
<td>el</td>
<td>response.entity.language</td>
<td>EL</td>
</tr>
<tr>
<td>String</td>
<td></td>
<td>String</td>
<td></td>
</tr>
<tr>
<td>request.entity.modificationDate</td>
<td>emd</td>
<td>response.entity.modificationDate</td>
<td>EMD</td>
</tr>
<tr>
<td>Date (HTTP format)</td>
<td></td>
<td>Date (HTTP format)</td>
<td></td>
</tr>
<tr>
<td>request.entity.mediaType</td>
<td>emt</td>
<td>response.entity.mediaType</td>
<td>EMT</td>
</tr>
<tr>
<td>String</td>
<td></td>
<td>String</td>
<td></td>
</tr>
<tr>
<td>request.entity.size</td>
<td>es</td>
<td>response.entity.size</td>
<td>ES</td>
</tr>
<tr>
<td>Integer</td>
<td></td>
<td>Integer</td>
<td></td>
</tr>
<tr>
<td>Variable</td>
<td>Type</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>-------</td>
<td>-----------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>request.entity.tag</td>
<td>et</td>
<td>String</td>
<td></td>
</tr>
<tr>
<td>response.entity.tag</td>
<td>ET</td>
<td>String</td>
<td></td>
</tr>
<tr>
<td>request.referrerRef</td>
<td>f*</td>
<td>Reference (see table below variable name sub-parts)</td>
<td></td>
</tr>
<tr>
<td>request.hostRef</td>
<td>h*</td>
<td>Reference (see table below variable name sub-parts)</td>
<td></td>
</tr>
<tr>
<td>request.method</td>
<td>m</td>
<td>String</td>
<td></td>
</tr>
<tr>
<td>request.rootRef</td>
<td>o*</td>
<td>Reference (see table below variable name sub-parts)</td>
<td></td>
</tr>
<tr>
<td>request.protocol</td>
<td>p</td>
<td>String</td>
<td></td>
</tr>
<tr>
<td>request.resourceRef</td>
<td>r*</td>
<td>Reference (see table below variable name sub-parts)</td>
<td></td>
</tr>
<tr>
<td>response.redirectRef</td>
<td>R*</td>
<td>Reference (see table below variable name sub-parts)</td>
<td></td>
</tr>
<tr>
<td>Reference property</td>
<td>Sub-part name</td>
<td>Content type</td>
<td></td>
</tr>
<tr>
<td>--------------------</td>
<td>--------------</td>
<td>--------------</td>
<td></td>
</tr>
<tr>
<td>authority</td>
<td>a</td>
<td>String</td>
<td></td>
</tr>
<tr>
<td>baseRef</td>
<td>b*</td>
<td>Reference</td>
<td></td>
</tr>
<tr>
<td>targetRef</td>
<td>t*</td>
<td>Reference</td>
<td></td>
</tr>
</tbody>
</table>

Below is the list of name sub-parts, for Reference variables, that can replace the asterix in the variable names above:
* <td>relativePart</td>
* <td>e</td>
* <td>String</td>
* </tr>
* <tr>
* <td>fragment</td>
* <td>f</td>
* <td>String</td>
* </tr>
* <tr>
* <td>hostIdentifier</td>
* <td>h</td>
* <td>String</td>
* </tr>
* <tr>
* <td>identifier</td>
* <td>i</td>
* <td>String</td>
* </tr>
* <tr>
* <td>path</td>
* <td>p</td>
* <td>String</td>
* </tr>
* <tr>
* <td>query</td>
* <td>q</td>
* <td>String</td>
* </tr>
* <tr>
* <td>remainingPart</td>
* <td>r</td>
* <td>String</td>
* </tr>
* </table>

* @author Jerome Louvel
*/

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/Resolver.java

1.837 gotest.tools v2.2.0+incompatible
1.837.1 Available under license:

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1.838 public-suffix 20190415.1030 0+deb9u1
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1.839 isodate 0.5.4

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* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/src/isodate/tests/test_duration.py
* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/src/isodate/tests/test_datetime.py
* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/src/isodate/__init__.py
* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/src/isodate/isostrf.py
* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/src/isodate/isoduration.py
* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/src/isodate/isoerror.py
* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/src/isodate/isodates.py
* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/src/isodate/isodatetime.py
* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/src/isodate/isotzinfo.py
* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/setup.py

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Metadata-Version: 1.1
Name: isodate
Version: 0.5.4
Summary: An ISO 8601 date/time/duration parser and formatter
Home-page: http://cheeseshop.python.org/pypi/isodate
Author: Gerhard Weis
Author-email: gerhard.weis@proclos.com
License: BSD
Description:
ISO 8601 date/time parser
========================

This module implements ISO 8601 date, time and duration parsing. The implementation follows ISO8601:2004 standard, and implements only date/time representations mentioned in the standard. If something is not mentioned there, then it is treated as non existent, and not as an allowed option.

For instance, ISO8601:2004 never mentions 2 digit years. So, it is not intended by this module to support 2 digit years. (while it may still be valid as ISO date, because it is not explicitly forbidden.)

Another example is, when no time zone information is given for a time, then it should be interpreted as local time, and not UTC.

As this module maps ISO 8601 dates/times to standard Python data types, like *date*, *time*, *datetime* and *timedelta*, it is not possible to convert all possible ISO 8601 dates/times. For instance, dates before 0001-01-01 are not allowed by the Python *date* and *datetime* classes. Additionally fractional seconds are limited to microseconds. That means if the parser finds for instance nanoseconds it will round it to microseconds.

 Documentation
-------------

Currently there are four parsing methods available.

* parse_time:
  parses an ISO 8601 time string into a *time* object
* parse_date:
  parses an ISO 8601 date string into a *date* object
* parse_datetime:
parses an ISO 8601 date-time string into a `datetime` object
* parse_duration:
parses an ISO 8601 duration string into a `timedelta` or `Duration`
object.
* parse_tzinfo:
parses the time zone info part of an ISO 8601 string into a
`tzinfo` object.

As ISO 8601 allows to define durations in years and months, and `timedelta`
does not handle years and months, this module provides a `Duration` class,
which can be used almost like a `timedelta` object (with some limitations).
However, a `Duration` object can be converted into a `timedelta` object.

There are also ISO formatting methods for all supported data types. Each
`xxx_isoformat` method accepts a format parameter. The default format is
always the ISO 8601 expanded format. This is the same format used by
`datetime.isoformat`:

* time_isoformat:
  Intended to create ISO time strings with default format
  `hh:mm:ssZ`.
* date_isoformat:
  Intended to create ISO date strings with default format
  `yyyy-mm-dd`.
* datetime_isoformat:
  Intended to create ISO date-time strings with default format
  `yyyy-mm-ddThh:mm:ssZ`.
* duration_isoformat:
  Intended to create ISO duration strings with default format
  `PnnYnnMnnDTnnHnnMnnS`.
* tz_isoformat:
  Intended to create ISO time zone strings with default format
  `hh:mm`.
* strftime:
  A re-implementation mostly compatible with Python's `strftime`, but
  supports only those format strings, which can also be used for dates
  prior 1900. This method also understands how to format `datetime` and
  `Duration` instances.

Installation:
-------------

This module can easily be installed with Python standard installation methods.

Either use `python setup.py install` or in case you have `setuptools` or
`distribute` available, you can also use `easy_install`.

Limitations:
The parser accepts several date/time representation which should be invalid according to ISO 8601 standard.

1. For date and time together, this parser accepts a mixture of basic and extended format. e.g. the date could be in basic format, while the time is accepted in extended format. It also allows short dates and times in date-time strings.
2. For incomplete dates, the first day is chosen. e.g. 19th century results in a date of 1901-01-01.
3. Negative *Duration* and *timedelta* value are not fully supported yet.

Further information:

The doc strings and unit tests should provide rather detailed information about the methods and their limitations.

The source release provides a *setup.py* script and a *buildout.cfg*. Both can be used to run the unit tests included.

Source code is available at `<http://github.com/gweis/isodate>`_.

**CHANGES**

0.5.4 (2015-08-06)

- Fix parsing of Periods (Fabien Bochu)
- Make Duration objects hashable (Geoffrey Fairchild)
- Add multiplication to duration (Reinoud Elhorst)

0.5.1 (2014-11-07)

- fixed pickling of Duration objects
- raise ISO8601Error when there is no 'T' separator in datetime strings (Adrian Coveney)

0.5.0 (2014-02-23)

- ISO8601Error are subclasses of ValueError now (Michael Hrivnak)
- improve compatibility across various python variants and versions
- raise exceptions when using fractional years and months in date maths with durations
- renamed method todatetime on Duration objects to timedelta

0.4.9 (2012-10-30)
--------------
- support pickling FixedOffset instances
- make sure parsed fractional seconds are in microseconds
- add leading zeros when formatting microseconds (Jarom Loveridge)

0.4.8 (2012-05-04)
--------------
- fixed incompatibility of unit tests with python 2.5 and 2.6 (runs fine on 2.7 and 3.2)

0.4.7 (2012-01-26)
--------------
- fixed tzinfo formatting (never pass None into tzinfo.utcoffset())

0.4.6 (2012-01-06)
--------------
- added Python 3 compatibility via 2to3

0.4.5 (2012-01-06)
--------------
- made setuptools dependency optional

0.4.4 (2011-04-16)
--------------
- Fixed formatting of microseconds for datetime objects

0.4.3 (2010-10-29)
--------------
- Fixed problem with %P formatting and fractions (supplied by David Brooks)

0.4.2 (2010-10-28)
--------------
- Implemented unary - for Duration (supplied by David Brooks)
- Output fractional seconds with ‘%P’ format. (partly supplied by David Brooks)

0.4.1 (2010-10-13)
-------------------

- fixed bug in comparison between timedelta and Duration.
- fixed precision problem with microseconds (reported by Tommi Virtanen)

0.4.0 (2009-02-09)
-------------------

- added method to parse ISO 8601 time zone strings
- added methods to create ISO 8601 conforming strings

0.3.0 (2009-1-05)
-------------------

- Initial release

TODOs
=====

This to do list contains some thoughts and ideas about missing features, and parts to think about, whether to implement them or not. This list is probably not complete.

Missing features:
-----------------

* time formatting does not allow to create fractional representations.
* parser for ISO intervals.
* currently microseconds are always padded to a length of 6 characters. trailing 0s should be optional

Documentation:
---------------

* parse_datetime:
  - complete documentation to show what this function allows, but ISO forbids. and vice verse.
  - support other separators between date and time than ‘T’

* parse_date:
  - yeardigits should be always greater than 4
  - dates before 0001-01-01 are not supported

* parse_duration:
  - alternative formats are not fully supported due to parse_date restrictions
- standard duration format is fully supported but not very restrictive.

* Duration:
  - support fractional years and month in calculations
  - implement w3c order relation? (`<http://www.w3.org/TR/xmlschema-2/#duration-order>`_)
  - refactor to have duration mathematics only at one place.
  - localize __str__ method (does timedelta do this?)
  - when is a Duration negative?
  - normalize Durations. months [00-12] and years [-inf,+inf]

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
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Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.6
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Found in path(s):
* /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/src/isodate.egg-info/PKG-INFO
  * /opt/cola/permits/1155643436_1619022235.92/0/isodate-0-5-4-1-tar-gz/isodate-0.5.4/PKG-INFO

1.840 libc 2.28-10
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1.854 shurcool-httpfs 0.0.0-20190707220628-8d4bc4ba7749
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1.856 netty-codec-socks 4.1.61.Final
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* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources-jar/io/netty/handler/codec/socks/SocksCmdType.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources-jar/io/netty/handler/codec/socks/SocksAuthScheme.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources-jar/io/netty/handler/codec/socks/SocksAddressType.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources-jar/io/netty/handler/codec/socks/SocksMessageType.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources-jar/io/netty/handler/codec/socks/SocksResponseType.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources-jar/io/netty/handler/codec/socks/SocksRequestType.java

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jar/io/netty/handler/codec/socks/SocksMessageEncoder.java
* /opt/cola/permits/1153055905_1618392510.29/netty-codec-socks-4-1-61-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4CommandType.java
* /opt/cola/permits/1153055905_1618392510.29/netty-codec-socks-4-1-61-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthRequest.java
* /opt/cola/permits/1153055905_1618392510.29/netty-codec-socks-4-1-61-final-sources-
jar/io/netty/handler/codec/socks/SocksRequest.java
* /opt/cola/permits/1153055905_1618392510.29/netty-codec-socks-4-1-61-final-sources-
jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandRequest.java
* /opt/cola/permits/1153055905_1618392510.29/netty-codec-socks-4-1-61-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java
* /opt/cola/permits/1153055905_1618392510.29/netty-codec-socks-4-1-61-final-sources-
jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java
* /opt/cola/permits/1153055905_1618392510.29/netty-codec-socks-4-1-61-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4CommandRequest.java
* /opt/cola/permits/1153055905_1618392510.29/netty-codec-socks-4-1-61-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequest.java
* /opt/cola/permits/1153055905_1618392510.29/netty-codec-socks-4-1-61-final-sources-
jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java
* /opt/cola/permits/1153055905_1618392510.29/netty-codec-socks-4-1-61-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java
* /opt/cola/permits/1153055905_1618392510.29/netty-codec-socks-4-1-61-final-sources-
* /opt/cola/permits/1153055905_1618392510.29/netty-codec-socks-4-1-61-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java
* /opt/cola/permits/1153055905_1618392510.29/netty-codec-socks-4-1-61-final-sources-
jar/io/netty/handler/codec/socks/SocksMessage.java
* /opt/cola/permits/1153055905_1618392510.29/netty-codec-socks-4-1-61-final-sources-
jar/io/netty/handler/codec/socks/SocksAuthResponse.java
* /opt/cola/permits/1153055905_1618392510.29/netty-codec-socks-4-1-61-final-sources-
jar/io/netty/handler/codec/socks/SocksAuthRequest.java
* /opt/cola/permits/1153055905_1618392510.29/netty-codec-socks-4-1-61-final-sources-
jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandStatus.java
* /opt/cola/permits/1153055905_1618392510.29/netty-codec-socks-4-1-61-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java
* /opt/cola/permits/1153055905_1618392510.29/netty-codec-socks-4-1-61-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4CommandStatus.java
jar/io/netty/handler/codec/socks/SocksCommonUtils.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequest.java
* /opt/cola/permits/1153055905_1618392510.29/0/netty-codec-socks-4-1-61-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequest.java

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* /opt/cola/permits/1154736197_1633442508.31/0/capnslog-4-zip/capnslog(pkg_logger.go
* /opt/cola/permits/1154736197_1633442508.31/0/capnslog-4-zip/capnslog/journald_formatter.go
* /opt/cola/permits/1154736197_1633442508.31/0/capnslog-4-zip/capnslog/syslog_formatter.go
* /opt/cola/permits/1154736197_1633442508.31/0/capnslog-4-zip/capnslog/log_hijack.go
* /opt/cola/permits/1154736197_1633442508.31/0/capnslog-4-zip/capnslog/init.go
* /opt/cola/permits/1154736197_1633442508.31/0/capnslog-4-zip/capnslog/logmap.go
* /opt/cola/permits/1154736197_1633442508.31/0/capnslog-4-zip/capnslog/formatters.go
* /opt/cola/permits/1154736197_1633442508.31/0/capnslog-4-zip/capnslog/init_windows.go

1.858 go-uber-org-zap v1.15.0

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1.859 googlecloudgo v0.38.0

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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.
    }
}
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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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 {  

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// 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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google.golang.org/grpc
google.golang.org/grpc/metadata

// 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.googleapi.RoundTripper, 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{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
    baseUrl.RawQuery = params.Encode()
    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
    }
}
httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

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

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

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

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

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

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}
    httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

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

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

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

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

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

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

    if err != nil {
    }
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
}
defhttpRsp.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)
        return nil, nil, nil
    }
    return it
}
if pageSize > math.MaxInt32 {
    req.MaxResults = proto.Uint32(math.MaxInt32)
} else if pageSize != 0 {
    req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, _ := url.Parse(c.endpoint)

params := url.Values{}
if req != nil && req.Filter != nil {
}
if req != nil && req.MaxResults != nil {
    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 = httpReq.WithContext(ctx)
    // Set the headers

    return nil, nil
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{

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
    }
    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
}
defr 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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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
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/transport/http"
computepb "google.golang.org/grpc/protobuf/googlesapis/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 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
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

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{}

    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.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
  }
  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.TestPermissionsResponse{}

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

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1.860 github.com/aws/aws-sdk-go-v2/feature/s3/manager 1.1.2
1.860.1 Available under license :

// 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 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  
  }
  
  return result, err
out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil


type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
// *
// ProductSKU
//
// * Status
//
// * Fingerprint
//
// * IssuerName
//
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

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

noSmithyDocumentSerde
}
func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.CloseResponseBodyMiddleware(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: ${{ github.base_ref }}
- name: Checkout this ref
  uses: actions/checkout@v2
  with:
    path: new-ref
    fetch-depth: 0
- name: Get Diff
run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
uses: actions/checkout@v2
with:
  repository: nexB/scancode-toolkit
  path: scancode-toolkit
  fetch-depth: 1
- name: Set up Python
uses: actions/setup-python@v2
with:
  python-version: {{ matrix.python-version }}
# ScanCode
- name: Self-configure scancode
working-directory: ./scancode-toolkit
run: ./scancode --help
- name: Run Scan code on target
run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$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

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

    noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsJson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsJson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata {


return &awsmiddleware.RegisterServiceMetadata{
    Region: region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "CheckInLicense",
}
}

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

package grafana

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns ...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns, c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.

WorkspaceId *string

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}

type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

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

    noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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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/smithy-go/transport/http"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
    c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
}
out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

// Amazon Resource Name (ARN) of the license.
//
// This member is required.
LicenseArn *string

// License version.
Version *string

noSmithyDocumentSerde
}

type GetLicenseOutput struct {

// License details.
License *types.License

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

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != 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 = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

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

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

package licensemanager

import {
  "context"
  aws Middleware "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

}
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 = 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 = addHTTPSignerVMiddleware(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 = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

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

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

package licensemanager

import (  
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, 
    c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

    // Product SKU.
    //
    // This member is required.
    ProductSKU *string

    // License beneficiary.
    Beneficiary *string
}
// Node ID.
NodeId *string

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}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

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

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}

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

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // Beneficiary
    //
    // * ProductSKU
    //
    // * Fingerprint
    //
    // * Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

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}

type ListLicensesOutput struct {

    // License details.
    Licenses []types.License

    // Token for the next set of results.
    NextToken *string

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

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}

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

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

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

package licensemanager

import (  
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.

// This member is required.
LicenseArn *string

// Current version of the license.
//
// This member is required.
SourceVersion *string

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}

type DeleteLicenseOutput struct {

// Date when the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

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

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}

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",
    }
}
// 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
}
type AssociateLicenseOutput struct {

  // A structure containing data about the workspace.
  //
  // This member is required.
  Workspace *types.WorkspaceDescription

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

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}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
  if err != nil {
    return err
  }
  err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
  if err = 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 = 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"
// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement
}
// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

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}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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

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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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1.861 jsonpatch 2.2.0

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jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
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jar/io/netty/handler/ssl/SniHandler.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-
jar/io/netty/handler/ssl/OpenSslX509Certificate.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-
jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionStats.java
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jar/io/netty/handler/ssl/JettyNpnSslEngine.java
1.863 javax-annotation-api 1.3.2

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BSON library for Go

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## Apache Xerces v2.12.1

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1.925 keyutils 1.6-6

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.926 uuid v1.1.2

1.926.1 Available under license:

Paul Borman <borman@google.com>
bmatsuo
shawnps
theory
jboverfelt
dsymonds
cdl
wallclockbuilder
dansouza
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1.927 gophercloud 0.1.0

1.927.1 Available under license:

package RESOURCE

import (  
  "github.com/gophercloud/gophercloud"
  "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
  gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"`
            Previous string `json:"previous"
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}
// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code
========================

At this point, you should have:

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

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

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

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

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

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

### Adding a Single Field

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

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

### Adding a Single API Call

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

### Adding a Suite of API Calls

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

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

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

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

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

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

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

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

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

### Unit Tests

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

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

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

### Documentation

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

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

There are two methods of handling this:

### Create Independent Pull Requests

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

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

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

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

Advantages of this Method:

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

Disadvantages of this Method:

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

### Create a Chain of Pull Requests

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

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

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

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

Advantages of this Method:

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

Disadvantages of this Method:

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

The choice of method is up to you.

---

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

**Step 6: Code Review**

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful
to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).
2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.
3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult =`
    {
    }
`

// GetResult provides a Get result.
const GetResult =`
    {
    }
`
// CreateRequest provides the input to a Create request.
const CreateRequest = `{
}
`;

// UpdateRequest provides the input to an Update request.
const UpdateRequest = `{
}
`;

// UpdateResult provides an update result.
const UpdateResult = `{
}
`;

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "GET")
    th.TestHeader(t, r, "Accept", "application/json")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

    w.Header().Set("Content-Type", "application/json")
    w.WriteHeader(http.StatusOK)
    fmt.Fprintf(w, GetResult)
})

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)

        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.WriteHeader(http.StatusNoContent)
        }}
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)

        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}
package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}
// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOptsBuilder) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
if err != nil {
    r.Err = err
    return
}
_, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
    OkCodes: []int{200},
})
return
}

package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.
And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

*/

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE

Step 2: Create an Issue

========================

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

-----------

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647
Feature Request
-------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of
'networking/v2/networks'. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in 'networking/v2/extensions'.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723
With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
type Network struct {
    ID           string `json:"id"`
    Name         string `json:"name"`
    AdminStateUp bool  `json:"admin_state_up"`
    Status       string `json:"status"`
    Subnets      []string `json:"subnets"`
    TenantID     string `json:"tenant_id"`
    Shared       bool   `json:"shared"
}
```

to look like

```go
type Network struct {
    ID                    string `json:"id"`
    Name                  string `json:"name"`
    AdminStateUp          bool  `json:"admin_state_up"`
    Status                string `json:"status"`
    Subnets               []string `json:"subnets"`
    TenantID              string `json:"tenant_id"`
    Shared                bool   `json:"shared"
    AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as
a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).

However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

-------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.
* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to Step 4 to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to Step 2.

---

1.928 x-net 0.0.0-20210903162142-ad29c8ab022f

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1.929 x-sys 0.0.0-20200622214017-ed371f2e16b4

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1.930 golang-org-x-sys v0.0.0-20210423082822-04245dca01da

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1.931 protobuf 1.26.0

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1.932 commons-lang3 2.6

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1.938 go-openapi-swag v0.19.5
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1.939 sanitized-anchor-name v1.0.0

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1.940 spec v0.19.3

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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
    url: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseJSON, license)
// License information for the exposed API.

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1.941 net v0.0.0-20200707034311-ab3426394381

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1.942 python-setuptools 59.4.0

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1.950 gophercloud v0.1.0
1.950.1 Available under license:
package RESOURCE

import (  
  "github.com/gophercloud/gophercloud"  
  "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
  gophercloud.Result
}
// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next`"
            Previous string `json:"previous"
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}
Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code
========================

At this point, you should have:

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

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

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

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

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

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

### Adding a Single Field

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

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

### Adding a Single API Call

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

### Adding a Suite of API Calls

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

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

* [https://github.com/gophercloud/gophercloud/pull/584](https://github.com/gophercloud/gophercloud/pull/584)
* [https://github.com/gophercloud/gophercloud/pull/586](https://github.com/gophercloud/gophercloud/pull/586)
* [https://github.com/gophercloud/gophercloud/pull/587](https://github.com/gophercloud/gophercloud/pull/587)
* [https://github.com/gophercloud/gophercloud/pull/594](https://github.com/gophercloud/gophercloud/pull/594)

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

### Adding an Entire OpenStack Project

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

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

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

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

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

### Unit Tests

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

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

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

### Documentation

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

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

There are two methods of handling this:

### Create Independent Pull Requests

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

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

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

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

Advantages of this Method:

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

Disadvantages of this Method:

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

### Create a Chain of Pull Requests

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

Use the following `git` workflow to implement this method:
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$(write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

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

Advantages of this Method:

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

Disadvantages of this Method:

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

The choice of method is up to you.

---

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

Step 6: Code Review

==================

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional
changes to your code.
While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have
enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

package testing

import (
    "fmt"
    "net/http"
    "testing"
    
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
    )

// ListResult provides a single page of RESOURCE results.
const ListResult = `  

// GetResult provides a Get result.
const GetResult = `  

// CreateRequest provides the input to a Create request.
const CreateRequest = `{ }`

// UpdateRequest provides the input to a Update request.
const UpdateRequest = `{ }`

// UpdateResult provides an update result.
const UpdateResult = `{ }`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}
package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}
// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
if err != nil {
    r.Err = err
    return
}
_, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
    OkCodes: []int{200},
})
return

package testing

import {
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
}

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}
func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

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Step 7: Congratulations!
=================================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE

Step 4: Acceptance Testing
=================================
If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647
Feature Request
---------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* [https://github.com/gophercloud/gophercloud/issues/310](https://github.com/gophercloud/gophercloud/issues/310)
* [https://github.com/gophercloud/gophercloud/issues/613](https://github.com/gophercloud/gophercloud/issues/613)
* [https://github.com/gophercloud/gophercloud/issues/729](https://github.com/gophercloud/gophercloud/issues/729)
* [https://github.com/gophercloud/gophercloud/issues/713](https://github.com/gophercloud/gophercloud/issues/713)

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* [https://github.com/gophercloud/gophercloud/issues/620](https://github.com/gophercloud/gophercloud/issues/620)
* [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621)
* [https://github.com/gophercloud/gophercloud/issues/658](https://github.com/gophercloud/gophercloud/issues/658)

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of
`networking/v2/networks` - The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service’s Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723
With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

**Step 3: Code Hunting**

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
type Network struct {
    ID     string `json:"id"`
    Name   string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status string `json:"status"`
    Subnets []string `json:"subnets"`
    TenantID string `json:"tenant_id"`
    Shared bool `json:"shared"`
}
```

to look like

```go
type Network struct {
    ID     string `json:"id"`
    Name   string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status string `json:"status"`
    Subnets []string `json:"subnets"`
    TenantID string `json:"tenant_id"`
    Shared bool `json:"shared"`
    AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as
a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

---------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.
* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.951 aws-sdk-go 1.34.30

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1.956 evanphx-json-patch 4.5.0+incompatible

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1.958 go-uber-org-zap v1.10.0

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1.959 object-model 1.0.25

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2.1. This Agreement consists of these General Conditions, and any Order Form(s) or Specific Conditions, which prevail over these General Conditions to the extent of any conflict. 2.2. This Agreement forms the entire agreement between the Parties relating to this subject matter, replaces and supersedes any previous proposals, correspondence and understandings, whether written or oral; including any Customer terms and conditions, which shall not apply. 2.3. This Agreement may not be altered, modified, amended, changed, rescinded or discharged in whole or in part, except by written agreement signed by both Customer and Axway. 2.4. Nothing contained in any document or purchase order submitted by Customer shall in any way modify or add to the terms of this Agreement.

ARTICLE 3 TERM
3.1. This Agreement shall remain in effect unless terminated in accordance with Article 17. The right of Use is granted from the Effective Date, or if none stated, upon Delivery by Axway. 3.2. If purchased by Customer, Support Services shall commence on the Effective Date and shall continue for an initial period of one (1) year (Initial Support Term) except as otherwise set forth in the Order Form. Upon expiration of the Initial Support Term, the
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ARTICLE 6 SUPPORT SERVICES
6.1. Upon payment of the applicable fees, Axway will provide technical Support Services, at the level specified on the Order Form. 6.2. Axway is under no obligation to provide Support Services (i) if there has been a modification or attempted modification of the Product (other than modifications made by Axway and delivered as part of the Product) or the Product has been improperly installed by Customer or operated or used other than in accordance with this Agreement and the Documentation; or (ii) if Customer has refused, delayed or otherwise failed to
implement a release or other modification that Axway has provided or recommended.

ARTICLE 7 ADDITIONAL SERVICES
7.1. In accordance with its expertise and availability, Axway will, if ordered by Customer, provide services that may include installation, implementation, technical and training assistance services for the Product, or subscription-based services ("Additional Services") to Customer at the rates set forth in the Order Form or, if no rates are set forth, the rates in effect at the time that such Services are provided. 7.2. Except for Retained Works (defined below), all right and title to professional services deliverables shall belong to Customer. Axway will be the owner of any Retained Works, which are defined to include: (i) any pre-existing materials, including any of Axway's preexisting software code, proprietary software tools, or training materials incorporated into the deliverables; (ii) any customized modifications to the Licensed Component unless an applicable work order, SOW or other such similar document expressly provides that such modifications are assigned to Customer; and (iii) any third party programs which are integrated with or incorporated into the deliverables. For any Retained Works incorporated into a deliverable, Axway grants Customer a non-exclusive, worldwide, royalty-free license to use such Retained Works to the same extent that Customer is licensed to use any related Licensed Component.

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ARTICLE 9 CUSTOMER RESPONSIBILITIES
9.1. Unless the hosted option is selected, Customer shall be responsible for operating the Product and shall: ensure that the hardware, base program, network and operating system configuration are suitable, develop the operating measures, control procedures and security measures required for data backup and replacement in the event of interruption in Product operation, 9.2. Customer is also responsible for: protecting its own recorded data, and the results obtained and any direct or indirect consequences thereof, making qualified personnel available to resolve any problems, and appointing one of its employees to serve as the primary point of contact with Axway for any technical issues

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may terminate this Agreement as it applies to the specific Product and the corresponding rights of Use. Customer
agrees to destroy or return the affected Product to Axway on its written request and Axway will then return the
Product license fees to Customer as prorated over a five (5) year term commencing on the date of Delivery of the
applicable Product by Axway. The obligations of Axway in this Article 11 will not apply to the extent that the
infringement or claim thereof is based on (i) Use of the Product other than in accordance with this Agreement, or (ii)
modifications or additions to the Product by Customer personnel (other than modifications at Axways direction) or
(iii) use of other than the most recent version of any Product if and from the time Axway informs Customer in
writing that infringement or misappropriation may be avoided by use of the most recent version of such Product.
THIS ARTICLE 11 SETS FORTH THE FULL SCOPE OF AXWAYS LIABILITY AND CUSTOMERS
EXCLUSIVE REMEDY, TO THE EXTENT PERMITTED BY LAW, FOR ANY ACTUAL OR ALLEGED
INFRINGEMENT OF THIRD PARTY RIGHTS IN CONNECTION WITH THE PRODUCT.

ARTICLE 12  LIABILITY
12.1. Axway does not warrant that the Product will operate in combination with other software selected by Customer, or that the Product will operate uninterrupted or free of non-material Defects. The Customer shall promptly inform Axway of any Defect and afford Axway reasonable opportunity to correct the Defect including, without limitation, the option to provide replacement Product, or correct any deficiency in Support Services. 12.2. Except for Axway's obligations with respect to indemnification or confidentiality, Axway is not liable for any special, indirect, exemplary, incidental, punitive or consequential damages of any kind, including, without limitation, damages for loss of goodwill, work stoppage, lost profits, lost data or computer hardware or software damage, failure or malfunction, whether or not Axway has been advised of the possibility of such damages; except for Axway's obligations with respect to indemnification or confidentiality, Axways liability hereunder shall not exceed the total amount of license and services fees invoiced under this agreement for the software giving rise to such liability during the calendar year in which the claim arose. the foregoing limitations of liability and disclaimers of damages apply regardless of the form in which an action (legal, equitable or otherwise) may be brought, whether in contract, tort, or otherwise. The limitations of liabilities, disclaimers of warranties, exclusivity of remedies and other limitations set forth herein are an essential element of the bargain between the parties (without which the transactions contemplated by this agreement would not occur) and will apply even if a remedy fails in its essential purpose. Axway's liability for death and personal injury caused by its negligence and any breach of its obligations implied by Section 12 of the Sale of Goods Act 1979 or Section 2 of the Supply of Goods and Services Act 1982 will be unlimited. 12.3. This Agreement is enforceable by the Parties to it and by their permitted assignees, otherwise a person who is not a party to this Agreement shall have no right to enforce or rely on any of the terms of this Agreement. The terms of this Article 12 shall survive termination of this Agreement.

ARTICLE 13  ADVERTISING
The Customer must include Axway's name any time it refers to the Product. The Customer hereby authorizes Axway to include its name in a customer list.

ARTICLE 14  ADMINISTRATIVE REQUIREMENTS
The Customer is responsible for obtaining any required legal authorizations arising out of Customers particular use of the Products and is responsible for its compliance with applicable data protection legislation.

ARTICLE 15  CONFIDENTIALITY
15.1. Each Party recognizes that under this Agreement either Party may have access to or otherwise receive trade secrets and confidential or proprietary information of the other, including information concerning products, including but not limited to the names of Customers clients, financial or contractual arrangements. All such information shall constitute "Confidential Information". The Products, including any Documentations or portions thereof and information, material or copy derived there from, is proprietary and confidential to Axway. Each Party agrees not to use, other than for the purposes for which it was disclosed or divulged the other party's Confidential Information and to limit disclosure of same to those of its employees and independent contractors who have a need to know the same and to use all reasonable endeavors to prevent its disclosure to or access by any third party without the prior written consent of the disclosing party. 15.2. Confidential Information does not include information that: (i) is or becomes a part of the public domain through no act or omission of the receiving Party; (ii) was in the receiving Party's lawful possession prior to the disclosure and had not been obtained by the receiving Party either directly or indirectly from the disclosing Party; (iii) is lawfully disclosed to the receiving Party by a third party without restriction on disclosure; (iv) is independently developed by the receiving Party without reference to the disclosing Party's Confidential Information; or (v) is required to be disclosed by any court of competent jurisdiction or by a governmental or regulatory authority or where there is a legal right, duty or requirement to disclose. In such event, the receiving Party will (and without breaching any legal or regulatory requirement) where reasonably practicable give the disclosing Party prompt notice in writing of the requirement to disclose. 15.3. The rights and obligations of the Parties under this Article 15 shall continue for three (3) years following expiration or termination of this agreement.
ARTICLE 16 NON-SOLICITATION
16.1. For the duration of this Agreement and for the period of twelve (12) months following its termination or expiration, neither Party shall, without the prior written consent of the other Party, actively endeavor to solicit or entice away any person employed or engaged by the other Party in the performance or administration of this Agreement. 16.2. If a Party breaches the foregoing obligation, the breaching party shall pay to the other Party twelve times the prior monthly base salary of the relevant person, such sum being deemed by both Parties to be fair compensation for the loss suffered as a result of the breach. 16.3. The provisions of Article 16.2 shall not apply to any individual who can be proven to have responded to a bona fide published recruitment advertisement where the recruited person is not recruited to work for or with a party's personnel or department involved in this Agreement. Nothing in this Article 16 is intended to restrict the right of any individual to seek employment with whomsoever they wish, but is intended to provide for due compensation where such a situation occurs as a result of entering into this Agreement recognizing that loss of experienced personnel can have a serious effect upon any employer.

ARTICLE 17 TERMINATION
17.1. This Agreement may be terminated by either Party immediately upon written notice if the other Party is in material or continuing breach of any of its obligations under this Agreement and fails to remedy that breach (if capable of remedy) within thirty (30) days after receiving written notice of such breach. 17.2. Either Party may terminate this Agreement forthwith on giving written notice to the other Party if such Party has had a receiver or administrative receiver appointed over the whole or any part of its undertaking or assets or passes a resolution for winding up, or a court of competent jurisdiction makes an order to that effect or if the other Party enters into any voluntary arrangement with its creditors or becomes subject to a bankruptcy administration order or ceases to carry on business. 17.3. Upon termination of the Agreement Customer must, depending on the method of Product delivery, either: (i) return the Licensed Component and the Documentation to Axway and destroy or return any copies of the Licensed Component that it may have made within fifteen (15) days from the termination date or (ii) remove all copies of the Licensed Component and certify in writing that all copies have been removed and destroyed. 17.4. After the Initial Support Term or any of the annual renewal of Support Services terms, either Party may terminate the Support Services on six (6) months prior written notice.

ARTICLE 18 WAIVER
The fact that either Party fails to take action after a breach by the other Party of any of its obligations arising hereunder shall not be construed or operate as a waiver of the obligation in question or of any later breach.

ARTICLE 19 SEVERABILITY
If any of the provisions of this Agreement, or any part thereof, is judged to be illegal or unenforceable, the remaining provisions will continue in full force and effect for the remainder of this Agreement and shall not be prejudiced, unless the substantive purpose of this Agreement is thereby frustrated, in which case either Party may terminate this Agreement forthwith on written notice.

ARTICLE 20 ASSIGNMENT
This Agreement and the license granted hereunder may not be assigned or transferred in whole or in part by Customer without Axway's prior written consent. Axway may assign and transfer its complete rights and obligations under this Agreement, without the consent of Customer, to any corporation that is a wholly owned subsidiary or parent or sister corporation of Axway. This Agreement is enforceable by the Parties to it and by their permitted assignees, otherwise a person who is not a party to this Agreement shall have no right, including without limitation under the Contracts (Rights of Third Parties) Act 1999 to enforce or rely on any of the terms of this Agreement.
ARTICLE 21 AUDIT
Axway hereby reserves the right to conduct an on-site audit of Customer to verify compliance with the Licensed Component license granted herein by providing at least three (3) days prior written notice. Customer consents to audit compliance software being run on Customer systems. The Customer hereby agrees to cooperate with the audit in good faith, to grant Axway access to all relevant information and to provide copies of relevant information on request. In addition, Customer agrees, upon request by Axway from time to time, to provide Axway with a written report, certified by an officer, stating the physical Site(s) and computer systems with respect to which Customer is using the Licensed Component.

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ARTICLE 24 - NOTICES
All notices, demands, consents, approvals and other communications shall be sufficient if in writing and sent by facsimile transmission (with a hard copy mailed on the same date) or registered or certified mail, return receipt requested, postage prepaid, or overnight courier service to the other party at its address set out in the Order Form or to such other superseding notice address that it has subsequently provided to other Party in writing. Each such notice shall be deemed to have been served: in the case of by hand and special delivery, when actually received; or if posted by recorded delivery shall be deemed to have been accepted on the expiry of forty eight (48) hours after posting and on proving posting it shall be sufficient to produce a copy of the notice properly addressed with the relevant post office receipt for its dispatch by recorded delivery.

ARTICLE 25 GOVERNING LAW and DISPUTES
25.1. This Agreement will be governed by and interpreted in accordance with the laws of England and Wales. Should any dispute arise, the Parties will use all reasonable efforts to attempt to resolve the dispute in good faith by senior level negotiations. The dispute shall be referred by a written request to an officer of each Party who has authority to resolve the dispute and who is not directly involved with the subject matter of this Agreement who shall meet within fifteen (15) days from the dispatch of the written request in order to attempt to resolve the dispute. 25.2. If the dispute is not resolved through negotiation, both Parties agree that the Courts of England will have exclusive jurisdiction in connection with the resolution of the dispute. The United Nations Convention on the International Sale of Goods shall not apply to this Agreement.

ATTACHMENT A ADDITIONAL DEFINITIONS
To the extent used in the Order Forms pursuant to this Agreement, the following definitions have the following meanings: Active (Production) License means a license for Use of the Product in a production environment. An Active/Active configuration refers to a shared cluster configuration whereby applications and data are simultaneously available to all server Instances in the cluster. Consequently, Active/Active clusters support high availability; Computer means one or a group of physical hardware machines processing data and hosting the running of one or more operating systems as defined in the Order Form; Core means the main part of CPU that interprets the instructions and performs the binary calculations. Every CPU has at least one Core, but can be composed of several Cores. If the right of Use is based on Cores and if the Licensed Component is used on a single computer with multiple Cores, the Core license must correspond with the number of respective Cores contained within such Computer CPU (Central Processing Unit) means a functional unit in a computer that interprets and executes instructions. If the right of Use is based on CPUs and if the Licensed Component is used on a single computer with multiple CPUs, the CPU license must correspond with the number of respective CPUs contained within such Computer Instance means a single occurrence of a Licensed Component. For clarification, if Customer has purchased only one Active Production Instance, Customer may run a single occurrence of the Licensed Component in RAM (Random Access Memory); Named User means a physical person susceptible to establish a session with the Licensed Component; Node means a running instance of an Axway program, i.e. a JVM (Java Virtual Machine) running an Axway application; Partition means a reserved part of the resources of an Operating Environment that is set aside for a specific purpose; Such as: Capped-Partition means the Sub-Capacity Partition using a determined maximum subset of the resources of an Operating Environment. Floating Partition means the Sub-Capacity Partition using a dynamically allocated subset of the resources of an Operating Environment. 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A Passive License may also include those for test, development, archiving or quality control/quality assurance; User means, unless otherwise stated in the applicable Order: (a) with respect to all Products other than Products that are part of Axways Validation Authority or SecureTransport product suites, any person who is assigned login or Use rights or credentials by Customer to access the applicable Product, whether directly, through another application or otherwise; (b) with respect to any Product included in Axways SecureTransport product suite, any person or system who is assigned login or Use rights or credentials by Customer to access the applicable Product, whether directly, through another application or otherwise; and (c) with respect to any Product included in Axways Validation Authority product suite, any Validation Authority User. Validation Authority User means any Human User, Group User or Non-Human User. 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20200630173020-3af7569d3a1e

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1.975 go-autorest 0.9.0

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1.984 google-uuid 1.1.2

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root

1.992 commons-logging 1.1.3

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1.995 adduser 3.118

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Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

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--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /**
 - Unix SMB/CIFS implementation.
+ trivial database library - standalone version

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 -
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23-June-2007

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS)) $(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \n$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \n@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.
import io, sys
from setuptools import setup

def main():
    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2.6',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'test_suite': 'tests',
    }

    setup(**arguments)
if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110765725_1606850597.72/0/kjd-idna-v2-7-0-g5d76cb6-1-tar-gz/kjd-idna-77c8bce/setup.py
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import io
from os import path
import re

VERSION = re.search("VERSION = '([^']+)'", io.open(path.join(path.dirname(__file__), 'webencodings', '__init__.py'), encoding='utf-8').read().strip()).group(1)

LONG_DESCRIPTION = io.open(path.join(path.dirname(__file__), 'README.rst'), encoding='utf-8')
setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
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        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)

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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
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===

webencodings.mklabels
~~~~~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

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```python
import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = [""
    parts.extend(
        f"    {label}: {name:<{max_len}},
""
    for label, name in labels)
    parts.append('}
    return ''.join(parts)

if __name__ == '__main__':

```

```
print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py

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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard
<http://encoding.spec.whatwg.org/>`

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
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* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like ``Content-Type: text/html; charset=latin1``,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually
aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
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Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
python-webencodings

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1.1008 pion-udp 0.1.1

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1.1009 github.com/pion/udp 0.1.1

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1.1010 perfmark-api 0.19.0

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* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/WrappedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/ByteBufHolder.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/DefaultByteBufHolder.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/AbstractDerivedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/FixedCompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/ByteBufProcessor.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/SimpleLeakAwareByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/UnreleasableByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/EmptyByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java

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* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources.jar/io/netty/buffer/search/AhoCorasicSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources.jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources.jar/io/netty/buffer/search/MultiSearchProcessor.java
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* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources.jar/io/netty/buffer/search/AhoCorasicSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources.jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources.jar/io/netty/buffer/search/MultiSearchProcessor.java
jar/io/netty/buffer/search/SearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/search/SearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/search/SearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/search/SearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/search/SearchProcessorFactory.java
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* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/ByteBufAllocatorMetric.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/PooledByteBufAllocatorMetric.java

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* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/ByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/UnpooledHeapByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/PooledSlicedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/WrappedCompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/PooledDuplicatedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java

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1.1030 gcfg v1.2.3

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1.1033 go-openapi-analysis 0.20.0

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1.1066 go-yaml 2.4.0

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1.1070 grpc-gateway 1.16.0

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#
# ##############################################################################
#
#  Gradle start up script for UN*X
#
# ##############################################################################

# Attempt to set APP_HOME
# Resolve links: $0 may be a link
PRG="$0"
# Need this for relative symlinks.
while [-h "$PRG" ]; do
  ls="ls -ld "$PRG"
  link=`expr "$ls" : '.-> \(\.*\)$'
  if expr "$link" : '/' > /dev/null; then
    PRG="$link"
else
    PRG=`dirname "$PRG"`"/"$link"
fi
done
SAVED=""pwd"

cd ""dirname "$PRG"""" >/dev/null
APP_HOME=""pwd -P"

cd "$SAVED" >/dev/null

APP_NAME="Gradle"
APP_BASE_NAME=`basename "$0"

# Add default JVM options here. You can also use JAVA_OPTS and GRADLE_OPTS to pass JVM options to this script.
DEFAULT_JVM_OPTS=":-Xmx64m" "-Xms64m"

# Use the maximum available, or set MAX_FD != -1 to use that value.
MAX_FD="maximum"

warn () {
    echo "$*
}
die () {
    echo echo "$*
    echo exit 1
}

# OS specific support (must be 'true' or 'false').
cygwin=false
msys=false
darwin=false
nonstop=false
case ""uname"" in
    CYGWIN* )
        cygwin=true
    ;;
    Darwin* )
        darwin=true
    ;;
    MINGW* )
        msys=true
    ;;
    NONSTOP* )
        nonstop=true
    ;;
esac

CLASSPATH=$APP_HOME/gradle/wrapper/gradle-wrapper.jar

# Determine the Java command to use to start the JVM.
if [ -n "$JAVA_HOME" ] ; then
  if [ -x "$JAVA_HOME/jre/sh/java" ] ; then
    # IBM's JDK on AIX uses strange locations for the executables
    JAVACMD="$JAVA_HOME/jre/sh/java"
  else
    JAVACMD="$JAVA_HOME/bin/java"
  fi
  if [ ! -x "$JAVACMD" ] ; then
die "ERROR: JAVA_HOME is set to an invalid directory: $JAVA_HOME
Please set the JAVA_HOME variable in your environment to match the location of your Java installation."
  fi
else
  JAVACMD="java"
  which java >/dev/null 2>&1 || die "ERROR: JAVA_HOME is not set and no 'java' command could be found in your PATH.
Please set the JAVA_HOME variable in your environment to match the location of your Java installation."
fi

# Increase the maximum file descriptors if we can.
if "Scygywin" = "false" -a "$darwin" = "false" -a "$nonstop" = "false" ] ; then
  MAX_FD_LIMIT=`ulimit -H -n`
  if [ $? -eq 0 ] ; then
    if [ "$MAX_FD" = "maximum" -o "$MAX_FD" = "max" ] ; then
      MAX_FD="$MAX_FD_LIMIT"
    fi
    ulimit -n $MAX_FD
  fi
  warn "Could not set maximum file descriptor limit: $MAX_FD"
else
  warn "Could not query maximum file descriptor limit: $MAX_FD_LIMIT"
fi

# For Darwin, add options to specify how the application appears in the dock
if $darwin; then
  GRADLE_OPTS="$GRADLE_OPTS \"-Xdock:name=$APP_NAME\" \"-Xdock:icon=$APP_HOME/media/gradle.icns\"
"
For Cygwin or MSYS, switch paths to Windows format before running java
if [ "$cygwin" = "true" -o "$msys" = "true" ] ; then
  APP_HOME=`cygpath --path --mixed "$APP_HOME"
  CLASSPATH=`cygpath --path --mixed "$CLASSPATH"
  JAVACMD=`cygpath --unix "$JAVACMD"
fi

# We build the pattern for arguments to be converted via cygpath
ROOTDIRSRAW=`find -L / -maxdepth 1 -mindepth 1 -type d 2>/dev/null`
SEP="
for dir in "$ROOTDIRSRAW" ; do
  ROOTDIRS="$ROOTDIRS$SEP$dir"
  SEP="|"
done
OURCYGPATTERN="(^($ROOTDIRS))"

# Add a user-defined pattern to the cygpath arguments
if [ "$GRADLE_CYGPATTERN" != "" ] ; then
  OURCYGPATTERN="$OURCYGPATTERN|($GRADLE_CYGPATTERN)"
fi

# Now convert the arguments - kludge to limit ourselves to /bin/sh
for arg in "$@" ; do
  CHECK=`echo "$arg"|egrep -c "$OURCYGPATTERN" -`
  CHECK2=`echo "$arg"|egrep -c "^-"`  # Determine if an option
  if [ $CHECK -ne 0 ] && [ $CHECK2 -eq 0 ] ; then  # Added a condition
    eval `echo args$i`=`cygpath --path --ignore --mixed "$arg"
  else
    eval `echo args$i`=""$arg"
  fi
  i=`expr $i + 1`
done
case $i in
  0) set -- ;;
  1) set -- "$args0" ;;
  2) set -- "$args0" "$args1" ;;
  3) set -- "$args0" "$args1" "$args2" ;;
  4) set -- "$args0" "$args1" "$args2" "$args3" ;;
  5) set -- "$args0" "$args1" "$args2" "$args3" "$args4" ;;
  6) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" ;;
  7) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" ;;
  8) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" "$args7" ;;
  9) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" "$args7" "$args8" ;;
esac
fi
# Escape application args
save () {
    for i do printf %s\n "$i" | sed "s/'/'\\''/g;1s/^/'/;\$s/$/' \\/" ; done
    echo ""
}
APP_ARGS=`save "$@"`

# Collect all arguments for the java command, following the shell quoting and substitution rules
eval set -- $DEFAULT_JVM_OPTS $JAVA_OPTS $GRADLE_OPTS "$-Dorg.gradle.appname=$APP_BASE_NAME" $JAVA_OPTS $GRADLE_OPTS "$CLASSPATH"
org.gradle.wrapper.GradleWrapperMain "$APP_ARGS"
exec "$JAVACMD" "$@

Found in path(s):
* /opt/cola/permits/1223245049_1637113301.71/0/licensing-client-agent-v0-1-10550c937c96a-zip/gradlew

1.1072 pprof v0.0.0-20191218002539-d4f498aebedc
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package spec

import (  
    "encoding/json"  
    "testing"
)

"github.com/stretchr/testify/assert"
)

var license = License{  
LicenseProps: LicenseProps{Name: "the name", URL: "the url"},  
VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `  
"name": "the name",`
func TestIntegrationLicense(t *testing.T) {

    // const licenseYAML = "name: the name\nurl: the url"

    b, err := json.MarshalIndent(license, "", "\t")
    if assert.NoError(t, err) {
        assert.Equal(t, licenseJSON, string(b))
    }

    actual := License{}
    err = json.Unmarshal([]byte(licenseJSON), &actual)
    if assert.NoError(t, err) {
        assert.EqualValues(t, license, actual)
    }
}

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package spec

import {
    "encoding/json"
    "github.com/go-openapi/swag"
}

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}
// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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1.1084 golang-org-x-sys v0.0.0-20200622214017-ed371f2e16b4

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1.1085 lua 5.1

1.1086 curl 7.52.1-5+deb9u16

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License Mixing

============

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

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1.1087 six 1.15.0-3.ph4

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1.1089 doublestar 3.0.0

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 * /opt/cola/permits/1199767181_1630583089.73/0/error-prone-annotations-2-4-0-sources-2-
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* /opt/cola/permits/1153055847_1618392524.25/0/netty-buffer-4-1-61-final-sources-
jar/io/netty/buffer/UnpooledHeapByteBuf.java
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1.1118 go v1.1.8
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1.1119 jackson-databind 2.12.0

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers.

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1.1120 k8s-io-apiextensions-apiserver 0.19.2

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import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
const licenseJSON = '{"name":"the name","url":"the url"}'
const licenseYAML = "name: the name\nurl: the url"

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

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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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1.1124 gmp 6.1.2+dfsg-1+deb9u1

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This gmp package was built for Debian by

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1.1125 gosnmp 1.29.0

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hostname -- set the host name or show the host/domain name

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Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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link a "work that uses the Library" with the Library to produce a
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.1134 golang-mock 1.6.0
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package empty_interface

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

type Empty interface{}

// This is a mock copyright header.

// Lorem ipsum dolor sit amet, consectetur adipiscing elit,
// sed do eiusmod tempor incididunt ut labore et dolore magna
// aliqua. Velit ut tortor pretium viverra suspendisse potenti.

// Code generated by MockGen. DO NOT EDIT.
// Source: input.go

// Package empty_interface is a generated GoMock package.
package empty_interface
import (  gomock "github.com/golang/mock/gomock"
)

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

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

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

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

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1.1135 githubcomshopifysarama 1.27.2
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-->

<opc:TypeDictionary
xmlns:opc="http://opcfoundation.org/BinarySchema/
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:ua="http://opcfoundation.org/UA/
xmlns:tns="http://opcfoundation.org/UA/
DefaultByteOrder="LittleEndian"
TargetNamespace="http://opcfoundation.org/UA/
">

<opc:Import Namespace="http://opcfoundation.org/BinarySchema/" />

<opc:StructuredType Name="XmlElement">
<opc:Documentation>An XML element encoded as a UTF-8 string.</opc:Documentation>
<opc:Field Name="Length" TypeName="opc:Int32" />
<opc:Field Name="Value" TypeName="opc:Char" LengthField="Length"/>
</opc:StructuredType>

<opc:EnumeratedType Name="NodeIdType" LengthInBits="6">
<opc:Documentation>The possible encodings for a NodeId value.</opc:Documentation>
<opc:EnumeratedValue Name="TwoByte" Value="0" />
<opc:EnumeratedValue Name="FourByte" Value="1" />
<opc:EnumeratedValue Name="Numeric" Value="2" />
<opc:EnumeratedValue Name="String" Value="3" />
<opc:EnumeratedValue Name="Guid" Value="4" />
<opc:EnumeratedValue Name="ByteString" Value="5" />
</opc:EnumeratedType>

<opc:StructuredType Name="TwoByteNodeId">
<opc:Field Name="Identifier" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="FourByteNodeId">
<opc:Field Name="NamespaceIndex" TypeName="opc:Byte" />
<opc:Field Name="Identifier" TypeName="opc:UInt16" />
</opc:StructuredType>

<opc:StructuredType Name="NumericNodeId">
<opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
<opc:Field Name="Identifier" TypeName="opc:UInt32" />
</opc:StructuredType>
<opc:StructuredType Name="StringNodeId">
  <opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
  <opc:Field Name="Identifier" TypeName="opc:CharArray" />
</opc:StructuredType>

<opc:StructuredType Name="GuidNodeId">
  <opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
  <opc:Field Name="Identifier" TypeName="opc:Guid" />
</opc:StructuredType>

<opc:StructuredType Name="ByteStringNodeId">
  <opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
  <opc:Field Name="Identifier" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="NodeId">
  <opc:Documentation>An identifier for a node in a UA server address space.</opc:Documentation>
  <opc:Field Name="NodeIdType" TypeName="ua:NodeIdType" />
  <opc:Field Name="Reserved1" TypeName="opc:Bit" Length="2" />
  <opc:Field Name="TwoByte" TypeName="ua:TwoByteNodeId" SwitchField="NodeIdType" SwitchValue="0" />
  <opc:Field Name="FourByte" TypeName="ua:FourByteNodeId" SwitchField="NodeIdType" SwitchValue="1" />
  <opc:Field Name="Numeric" TypeName="ua:NumericNodeId" SwitchField="NodeIdType" SwitchValue="2" />
  <opc:Field Name="String" TypeName="ua:StringNodeId" SwitchField="NodeIdType" SwitchValue="3" />
  <opc:Field Name="Guid" TypeName="ua:GuidNodeId" SwitchField="NodeIdType" SwitchValue="4" />
  <opc:Field Name="ByteString" TypeName="ua:ByteStringNodeId" SwitchField="NodeIdType" SwitchValue="5" />
</opc:StructuredType>

<opc:StructuredType Name="ExpandedNodeId">
  <opc:Documentation>An identifier for a node in a UA server address space qualified with a complete namespace string.</opc:Documentation>
  <opc:Field Name="NodeIdType" TypeName="ua:NodeIdType" />
  <opc:Field Name="ServerIndexSpecified" TypeName="opc:Bit" />
  <opc:Field Name="NamespaceURISpecified" TypeName="opc:Bit" />
  <opc:Field Name="TwoByte" TypeName="ua:TwoByteNodeId" SwitchField="NodeIdType" SwitchValue="0" />
  <opc:Field Name="FourByte" TypeName="ua:FourByteNodeId" SwitchField="NodeIdType" SwitchValue="1" />
  <opc:Field Name="Numeric" TypeName="ua:NumericNodeId" SwitchField="NodeIdType" SwitchValue="2" />
  <opc:Field Name="String" TypeName="ua:StringNodeId" SwitchField="NodeIdType" SwitchValue="3" />
  <opc:Field Name="Guid" TypeName="ua:GuidNodeId" SwitchField="NodeIdType" SwitchValue="4" />
  <opc:Field Name="ByteString" TypeName="ua:ByteStringNodeId" SwitchField="NodeIdType" SwitchValue="5" />
</opc:StructuredType>
<opc:OpaqueType Name="StatusCode" LengthInBits="32" ByteOrderSignificant="true">
  <opc:Documentation>A 32-bit status code value.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="DiagnosticInfo">
  <opc:Documentation>A recursive structure containing diagnostic information associated with a status code.</opc:Documentation>
  <opc:Field Name="SymbolicIdSpecified" TypeName="opc:Bit" />
  <opc:Field Name="NamespaceURISpecified" TypeName="opc:Bit" />
  <opc:Field Name="LocaleSpecified" TypeName="opc:Bit" />
  <opc:Field Name="LocalizedTextSpecified" TypeName="opc:Bit" />
  <opc:Field Name="AdditionalInfoSpecified" TypeName="opc:Bit" />
  <opc:Field Name="InnerStatusCodeSpecified" TypeName="opc:Bit" />
  <opc:Field Name="InnerDiagnosticInfoSpecified" TypeName="opc:Bit" />
  <opc:Field Name="Reserved1" TypeName="opc:Bit" Length="2" />
  <opc:Field Name="SymbolicId" TypeName="opc:Int32" SwitchField="SymbolicIdSpecified" />
  <opc:Field Name="NamespaceURI" TypeName="opc:Int32" SwitchField="NamespaceURISpecified" />
  <opc:Field Name="Locale" TypeName="opc:Int32" SwitchField="LocaleSpecified" />
  <opc:Field Name="LocalizedText" TypeName="opc:Int32" SwitchField="LocalizedTextSpecified" />
  <opc:Field Name="AdditionalInfo" TypeName="opc:CharArray" SwitchField="AdditionalInfoSpecified" />
  <opc:Field Name="InnerStatusCode" TypeName="ua:StatusCode" SwitchField="InnerStatusCodeSpecified" />
  <opc:Field Name="InnerDiagnosticInfo" TypeName="ua:DiagnosticInfo" SwitchField="InnerDiagnosticInfoSpecified" />
</opc:StructuredType>

<opc:StructuredType Name="QualifiedName">
  <opc:Documentation>A string qualified with a namespace index.</opc:Documentation>
  <opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
  <opc:Field Name="Name" TypeName="opc:CharArray" />
</opc:StructuredType>

<opc:StructuredType Name="LocalizedText">
  <opc:Documentation>A string qualified with a namespace index.</opc:Documentation>
  <opc:Field Name="LocaleSpecified" TypeName="opc:Bit" />
  <opc:Field Name="TextSpecified" TypeName="opc:Bit" />
  <opc:Field Name="Reserved1" TypeName="opc:Bit" Length="6" />
  <opc:Field Name="Locale" TypeName="opc:CharArray" SwitchField="LocaleSpecified" />
  <opc:Field Name="Text" TypeName="opc:CharArray" SwitchField="TextSpecified" />
</opc:StructuredType>

<opc:StructuredType Name="DataValue">
  <opc:Documentation>A value with an associated timestamp, and quality.</opc:Documentation>
  <opc:Field Name="ValueSpecified" TypeName="opc:Bit" />
  <opc:Field Name="StatusCodeSpecified" TypeName="opc:Bit" />
  <opc:Field Name="SourceTimestampSpecified" TypeName="opc:Bit" />
  <opc:Field Name="SourcePicosecondsSpecified" TypeName="opc:Bit" />
  <opc:Field Name="ServerTimestampSpecified" TypeName="opc:Bit" />
  <opc:Field Name="ServerPicosecondsSpecified" TypeName="opc:Bit" />
</opc:StructuredType>
<opc:OpaqueType Name="ImageJPG">
  <opc:Documentation>An image encoded in JPEG format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="ImagePNG">
  <opc:Documentation>An image encoded in PNG format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="AudioDataType">
  <opc:Documentation>An image encoded in PNG format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="BitFieldMaskDataType">
  <opc:Documentation>A mask of 32 bits that can be updated individually by using the top 32 bits as a mask.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="KeyValuePair" BaseType="ua:ExtensionObject">
  <opc:Field Name="Key" TypeName="ua:QualifiedName" />
  <opc:Field Name="Value" TypeName="ua:Variant" />
</opc:StructuredType>

<opc:StructuredType Name="AdditionalParametersType" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfParameters" TypeName="opc:Int32" />
  <opc:Field Name="Parameters" TypeName="tns:KeyValuePair" LengthField="NoOfParameters" />
</opc:StructuredType>

<opc:StructuredType Name="EphemeralKeyType" BaseType="ua:ExtensionObject">
  <opc:Field Name="PublicKey" TypeName="opc:ByteString" />
  <opc:Field Name="Signature" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="EndpointType" BaseType="ua:ExtensionObject">
  <opc:Field Name="EndpointUrl" TypeName="opc:String" />
  <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
  <opc:Field Name="SecurityPolicyUri" TypeName="opc:String" />
  <opc:Field Name="TransportProfileUri" TypeName="opc:String" />
</opc:StructuredType>

<opc:EnumeratedType Name="OpenFileMode" LengthInBits="32">
  <opc:EnumeratedValue Name="Read" Value="1" />
  <opc:EnumeratedValue Name="Write" Value="2" />
  <opc:EnumeratedValue Name="EraseExisting" Value="4" />
  <opc:EnumeratedValue Name="Append" Value="8" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="IdentityCriteriaType" LengthInBits="32"/>
<opc:EnumeratedValue Name="UserName" Value="1" />
<opc:EnumeratedValue Name="Thumbprint" Value="2" />
<opc:EnumeratedValue Name="Role" Value="3" />
<opc:EnumeratedValue Name="GroupId" Value="4" />
<opc:EnumeratedValue Name="Anonymous" Value="5" />
<opc:EnumeratedValue Name="AuthenticatedUser" Value="6" />
</opc:EnumeratedType>

<opc:StructuredType Name="IdentityMappingRuleType" BaseType="ua:ExtensionObject">
  <opc:Field Name="CriteriaType" TypeName="tns:IdentityCriteriaType" />
  <opc:Field Name="Criteria" TypeName="opc:String" />
</opc:StructuredType>

<opc:EnumeratedType Name="TrustListMasks" LengthInBits="32">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="TrustedCertificates" Value="1" />
  <opc:EnumeratedValue Name="TrustedCrls" Value="2" />
  <opc:EnumeratedValue Name="IssuerCertificates" Value="4" />
  <opc:EnumeratedValue Name="IssuerCrls" Value="8" />
  <opc:EnumeratedValue Name="All" Value="15" />
</opc:EnumeratedType>

<opc:StructuredType Name="TrustListDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="SpecifiedLists" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfTrustedCertificates" TypeName="opc:Int32" />
  <opc:Field Name="TrustedCertificates" TypeName="opc:ByteString" LengthField="NoOfTrustedCertificates" />
  <opc:Field Name="NoOfTrustedCrls" TypeName="opc:Int32" />
  <opc:Field Name="TrustedCrls" TypeName="opc:ByteString" LengthField="NoOfTrustedCrls" />
  <opc:Field Name="NoOfIssuerCertificates" TypeName="opc:Int32" />
  <opc:Field Name="IssuerCertificates" TypeName="opc:ByteString" LengthField="NoOfIssuerCertificates" />
  <opc:Field Name="NoOfIssuerCrls" TypeName="opc:Int32" />
  <opc:Field Name="IssuerCrls" TypeName="opc:ByteString" LengthField="NoOfIssuerCrls" />
</opc:StructuredType>

<opc:StructuredType Name="DecimalDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Scale" TypeName="opc:Int16" />
  <opc:Field Name="Value" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="DataTypeSchemaHeader" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfNamespaces" TypeName="opc:Int32" />
  <opc:Field Name="Namespaces" TypeName="opc:String" LengthField="NoOfNamespaces" />
  <opc:Field Name="NoOfStructureDataTypes" TypeName="opc:Int32" />
  <opc:Field Name="StructureDataTypes" TypeName="tns:StructureDescription" LengthField="NoOfStructureDataTypes" />
  <opc:Field Name="NoOfEnumDataTypes" TypeName="opc:Int32" />
  <opc:Field Name="EnumDataTypes" TypeName="tns:EnumDescription" LengthField="NoOfEnumDataTypes" />
</opc:StructuredType>
<opc:Field Name="NoOfSimpleDataTypes" TypeName="opc:Int32" />
<opc:Field Name="SimpleDataTypes" TypeName="tns:SimpleTypeDescription" LengthField="NoOfSimpleDataTypes" />
</opc:StructuredType>

<opc:StructuredType Name="DataTypeDescription" BaseType="ua:ExtensionObject">
  <opc:Field Name="DataTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="Name" TypeName="ua:QualifiedName" />
</opc:StructuredType>

<opc:StructuredType Name="StructureDescription" BaseType="tns:DataTypeDescription">
  <opc:Field Name="DataTypeId" TypeName="ua:NodeId" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="Name" TypeName="ua:QualifiedName" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="StructureDefinition" TypeName="tns:StructureDefinition" />
</opc:StructuredType>

<opc:StructuredType Name="EnumDescription" BaseType="tns:DataTypeDescription">
  <opc:Field Name="DataTypeId" TypeName="ua:NodeId" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="Name" TypeName="ua:QualifiedName" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="EnumDefinition" TypeName="tns:EnumDefinition" />
  <opc:Field Name="BuiltInType" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="SimpleTypeDescription" BaseType="tns:DataTypeDescription">
  <opc:Field Name="DataTypeId" TypeName="ua:NodeId" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="Name" TypeName="ua:QualifiedName" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="BaseDataType" TypeName="ua:NodeId" />
  <opc:Field Name="BuiltInType" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="UABinaryFileDataType" BaseType="tns:DataTypeSchemaHeader">
  <opc:Field Name="NoOfNamespaces" TypeName="opc:Int32" />
  <opc:Field Name="Namespaces" TypeName="opc:String" LengthField="NoOfNamespaces" />
  <opc:Field Name="NoOfStructureDataTypes" TypeName="opc:Int32" />
  <opc:Field Name="StructureDataTypes" TypeName="tns:StructureDescription" LengthField="NoOfStructureDataTypes" />
  <opc:Field Name="NoOfEnumDataTypes" TypeName="opc:Int32" />
  <opc:Field Name="EnumDataTypes" TypeName="tns:EnumDescription" LengthField="NoOfEnumDataTypes" />
  <opc:Field Name="NoOfSimpleDataTypes" TypeName="opc:Int32" />
  <opc:Field Name="SimpleDataTypes" TypeName="tns:SimpleTypeDescription" LengthField="NoOfSimpleDataTypes" />
  <opc:Field Name="SchemaLocation" TypeName="opc:String" />
  <opc:Field Name="NoOfFileHeader" TypeName="opc:Int32" />
  <opc:Field Name="FileHeader" TypeName="tns:KeyValuePair" LengthField="NoOfFileHeader" />
  <opc:Field Name="Body" TypeName="ua:Variant" />
</opc:StructuredType>
<opc:Field Name="MajorVersion" TypeName="opc:UInt32" />
<opc:Field Name="MinorVersion" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="PublishedDataSetDataType" BaseType="ua:ExtensionObject">
    <opc:Field Name="Name" TypeName="opc:String" />
    <opc:Field Name="NoOfDataSetFolder" TypeName="opc:Int32" />
    <opc:Field Name="DataSetFolder" TypeName="opc:String" LengthField="NoOfDataSetFolder" />
    <opc:Field Name="DataSetMetaData" TypeName="tns:DataSetMetaDataType" />
    <opc:Field Name="NoOfExtensionFields" TypeName="opc:Int32" />
    <opc:Field Name="ExtensionFields" TypeName="tns:KeyValuePair" LengthField="NoOfExtensionFields" />
    <opc:Field Name="DataSetSource" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="PublishedDataSetSourceDataType" BaseType="ua:ExtensionObject">
    <opc:Field Name="PublishedVariable" TypeName="ua:NodeId" />
    <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
    <opc:Field Name="SamplingIntervalHint" TypeName="opc:Double" />
    <opc:Field Name="DeadbandType" TypeName="opc:UInt32" />
    <opc:Field Name="DeadbandValue" TypeName="opc:Double" />
    <opc:Field Name="IndexRange" TypeName="opc:String" />
    <opc:Field Name="SubstituteValue" TypeName="ua:Variant" />
    <opc:Field Name="NoOfMetaDataProperties" TypeName="opc:Int32" />
    <opc:Field Name="MetaDataProperties" TypeName="ua:QualifiedName" LengthField="NoOfMetaDataProperties" />
</opc:StructuredType>

<opc:StructuredType Name="PublishedDataItemsDataType" BaseType="tns:PublishedDataSetSourceDataType">
    <opc:Field Name="NoOfPublishedData" TypeName="opc:Int32" />
    <opc:Field Name="PublishedData" TypeName="tns:PublishedVariableDataType" LengthField="NoOfPublishedData" />
</opc:StructuredType>

<opc:StructuredType Name="PublishedEventsDataType" BaseType="tns:PublishedDataSetSourceDataType">
    <opc:Field Name="EventNotifier" TypeName="ua:NodeId" />
    <opc:Field Name="NoOfSelectedFields" TypeName="opc:Int32" />
    <opc:Field Name="SelectedFields" TypeName="tns:SimpleAttributeOperand" LengthField="NoOfSelectedFields" />
    <opc:Field Name="Filter" TypeName="tns:ContentFilter" />
</opc:StructuredType>

<opc:EnumeratedType Name="DataSetFieldContentMask" LengthInBits="32" IsOptionSet="true">
    <opc:EnumeratedValue Name="None" Value="0" />
    <opc:EnumeratedValue Name="StatusCode" Value="1" />
    <opc:EnumeratedValue Name="SourceTimestamp" Value="2" />
</opc:EnumeratedType>
<opc:EnumeratedValue Name="ServerTimestamp" Value="4" />
<opc:EnumeratedValue Name="SourcePicoSeconds" Value="8" />
<opc:EnumeratedValue Name="ServerPicoSeconds" Value="16" />
<opc:EnumeratedValue Name="RawData" Value="32" />
</opc:EnumeratedType>

<opc:StructuredType Name="DataSetWriterDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Name" TypeName="opc:String" />
  <opc:Field Name="Enabled" TypeName="opc:Boolean" />
  <opc:Field Name="DataSetWriterId" TypeName="opc:UInt16" />
  <opc:Field Name="DataSetFieldContentMask" TypeName="tns:DataSetFieldContentMask" />
  <opc:Field Name="KeyFrameCount" TypeName="opc:UInt32" />
  <opc:Field Name="DataSetName" TypeName="opc:String" />
  <opc:Field Name="NoOfDataSetWriterProperties" TypeName="opc:Int32" LengthField="NoOfDataSetWriterProperties" />
  <opc:Field Name="TransportSettings" TypeName="ua:ExtensionObject" />
  <opc:Field Name="MessageSettings" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="DataSetWriterTransportDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="DataSetWriterMessageDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="PubSubGroupDataType" BaseType="tns:PubSubGroupDataType">
  <opc:Field Name="Name" TypeName="opc:String" SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="Enabled" TypeName="opc:Boolean" SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="SecurityGroupId" TypeName="opc:String" />
  <opc:Field Name="NoOfSecurityKeyServices" TypeName="opc:Int32" />
  <opc:Field Name="SecurityKeyServices" TypeName="tns:EndpointDescription" LengthField="NoOfSecurityKeyServices" />
  <opc:Field Name="MaxNetworkMessageSize" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfGroupProperties" TypeName="opc:Int32" LengthField="NoOfGroupProperties" />
</opc:StructuredType>

<opc:StructuredType Name="WriterGroupDataType" BaseType="tns:PubSubGroupDataType">
  <opc:Field Name="Name" TypeName="opc:String" SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="Enabled" TypeName="opc:Boolean" SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" SourceType="tns:PubSubGroupDataType" />
  <opc:Field Name="SecurityGroupId" TypeName="opc:String" />
  <opc:Field Name="NoOfSecurityKeyServices" TypeName="opc:Int32" />
  <opc:Field Name="SecurityKeyServices" TypeName="tns:EndpointDescription" LengthField="NoOfSecurityKeyServices" />
</opc:StructuredType>
<opc:StructuredType Name="NetworkAddressUrlDataType" BaseType="tns:NetworkAddressDataType">
<opc:Field Name="NetworkInterface" TypeName="opc:String" SourceType="tns:NetworkAddressDataType" />
<opc:Field Name="Url" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="ReaderGroupDataType" BaseType="tns:PubSubGroupDataType">
<opc:Field Name="Name" TypeName="opc:String" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="Enabled" TypeName="opc:Boolean" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="GroupId" TypeName="opc:String" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="NoOfSecurityKeyServices" TypeName="opc:Int32" LengthField="NoOfSecurityKeyServices" />
<opc:Field Name="SecurityKeyServices" TypeName="tns:EndpointDescription" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="MaxNetworkMessageSize" TypeName="opc:UInt32" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="NoOfGroupProperties" TypeName="opc:Int32" />
<opc:Field Name="GroupProperties" TypeName="tns:KeyValuePair" LengthField="NoOfGroupProperties" />
<opc:Field Name="TransportSettings" TypeName="ua:ExtensionObject" />
<opc:Field Name="MessageSettings" TypeName="ua:ExtensionObject" />
<opc:Field Name="NoOfDataSetReaders" TypeName="opc:Int32" />
<opc:Field Name="DataSetReaders" TypeName="tns:DataSetReaderDataType" LengthField="NoOfDataSetReaders" />
</opc:StructuredType>

<opc:StructuredType Name="ReaderGroupTransportDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="ReaderGroupMessageDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="DataSetReaderDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="Name" TypeName="opc:String" />
<opc:Field Name="Enabled" TypeName="opc:Boolean" />
<opc:Field Name="PublisherId" TypeName="ua:Variant" />
<opc:Field Name="WriterGroupId" TypeName="opc:UInt16" />
<opc:Field Name="DataSetWriterId" TypeName="opc:UInt16" />
<opc:Field Name="DataSetMetaData" TypeName="tns:DataSetMetaDataType" />
<opc:Field Name="DataSetFieldContentMask" TypeName="tns:DataSetFieldContentMask" />
<opc:Field Name="MessageReceiveTimeout" TypeName="opc:Double" />
<opc:Field Name="KeyFrameCount" TypeName="opc:UInt32" />
<opc:Field Name="HeaderLayoutUri" TypeName="opc:String" />
<opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
<opc:Field Name="GroupId" TypeName="opc:String" />
<opc:Field Name="NoOfSecurityKeyServices" TypeName="opc:Int32" LengthField="NoOfSecurityKeyServices" />
<opc:Field Name="SecurityKeyServices" TypeName="tns:EndpointDescription" />
<opc:Field Name="NoOfDataSetReaderProperties" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:Field Name="DataSetReaderProperties" TypeName="tns:KeyValuePair" LengthField="NoOfDataSetReaderProperties" />
<opc:Field Name="TransportSettings" TypeName="ua:ExtensionObject" />
<opc:Field Name="MessageSettings" TypeName="ua:ExtensionObject" />
<opc:Field Name="SubscribedDataSet" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="DataSetReaderTransportDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="DataSetReaderMessageDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="SubscribedDataSetDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="NoOfTargetVariables" TypeName="opc:Int32" />
<opc:Field Name="TargetVariables" TypeName="tns:FieldTargetDataType" LengthField="NoOfTargetVariables" />
</opc:StructuredType>

<opc:StructuredType Name="FieldTargetDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="DataSetFieldId" TypeName="opc:Guid" />
<opc:Field Name="ReceiverIndexRange" TypeName="opc:String" />
<opc:Field Name="TargetNodeId" TypeName="ua:NodeId" />
<opc:Field Name="AttributeId" TypeName="opc:UInt32" />
<opc:Field Name="WriteIndexRange" TypeName="opc:String" />
<opc:Field Name="OverrideValueHandling" TypeName="tns:OverrideValueHandling" />
<opc:Field Name="OverrideValue" TypeName="ua:Variant" />
</opc:StructuredType>

<opc:EnumeratedType Name="OverrideValueHandling" LengthInBits="32">
<opc:EnumeratedValue Name="Disabled" Value="0" />
<opc:EnumeratedValue Name="LastUsableValue" Value="1" />
<opc:EnumeratedValue Name="OverrideValue" Value="2" />
</opc:EnumeratedType>

<opc:StructuredType Name="SubscribedDataSetMirrorDataType" BaseType="tns:SubscribedDataSetDataType">
<opc:Field Name="ParentNodeName" TypeName="opc:String" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
</opc:StructuredType>

<opc:StructuredType Name="PubSubConfigurationDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="NoOfPublishedDataSets" TypeName="opc:Int32" />
<opc:Field Name="PublishedDataSets" TypeName="tns:PublishedDataSetDataType"
LengthField="NoOfPublishedDataSets" />
  <opc:Field Name="NoOfConnections" TypeName="opc:Int32" />
  <opc:Field Name="Connections" TypeName="tns:PubSubConnectionDataType"
LengthField="NoOfConnections" />
  <opc:Field Name="Enabled" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:EnumeratedType Name="DataSetOrderingType" LengthInBits="32">
  <opc:EnumeratedValue Name="Undefined" Value="0" />
  <opc:EnumeratedValue Name="AscendingWriterId" Value="1" />
  <opc:EnumeratedValue Name="AscendingWriterIdSingle" Value="2" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="UadpNetworkMessageContentMask" LengthInBits="32" IsOptionSet="true">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="PublisherId" Value="1" />
  <opc:EnumeratedValue Name="GroupHeader" Value="2" />
  <opc:EnumeratedValue Name="WriterGroupId" Value="4" />
  <opc:EnumeratedValue Name="GroupVersion" Value="8" />
  <opc:EnumeratedValue Name="NetworkMessageNumber" Value="16" />
  <opc:EnumeratedValue Name="SequenceNumber" Value="32" />
  <opc:EnumeratedValue Name="PayloadHeader" Value="64" />
  <opc:EnumeratedValue Name="Timestamp" Value="128" />
  <opc:EnumeratedValue Name="PicoSeconds" Value="256" />
  <opc:EnumeratedValue Name="DataSetClassId" Value="512" />
  <opc:EnumeratedValue Name="PromotedFields" Value="1024" />
</opc:EnumeratedType>

<opc:StructuredType Name="UadpWriterGroupMessageDataType"
BaseType="tns:WriterGroupMessageDataType">
  <opc:Field Name="GroupVersion" TypeName="opc:UInt32" />
  <opc:Field Name="DataSetOrdering" TypeName="tns:DataSetOrderingType" />
  <opc:Field Name="NetworkMessageContentMask" TypeName="tns:UadpNetworkMessageContentMask" />
  <opc:Field Name="SamplingOffset" TypeName="opc:Double" LengthField="NoOfPublishingOffset" />
</opc:StructuredType>

<opc:EnumeratedType Name="UadpDataSetMessageContentMask" LengthInBits="32" IsOptionSet="true">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="Timestamp" Value="1" />
  <opc:EnumeratedValue Name="PicoSeconds" Value="2" />
  <opc:EnumeratedValue Name="Status" Value="4" />
  <opc:EnumeratedValue Name="MajorVersion" Value="8" />
  <opc:EnumeratedValue Name="MinorVersion" Value="16" />
  <opc:EnumeratedValue Name="SequenceNumber" Value="32" />
</opc:EnumeratedType>

<opc:StructuredType Name="UadpDataSetMessageDataType" BaseType="tns:DataSetMessageDataType">
  <opc:Field Name="GroupVersion" TypeName="opc:UInt32" />
  <opc:Field Name="DataSetOrdering" TypeName="tns:DataSetOrderingType" />
  <opc:Field Name="NetworkMessageContentMask" TypeName="tns:UadpDataSetMessageContentMask" />
  <opc:Field Name="PublishingOffset" TypeName="opc:Double" LengthField="NoOfPublishingOffset" />
</opc:StructuredType>
<opc:StructuredType Name="UadpDataSetWriterMessageDataType" BaseType="tns:DataSetWriterMessageDataType">
<opc:Field Name="DataSetMessageContentMask" TypeName="tns:UadpDataSetMessageContentMask" />
<opc:Field Name="ConfiguredSize" TypeName="opc:UInt16" />
<opc:Field Name="NetworkMessageNumber" TypeName="opc:UInt16" />
<opc:Field Name="DataSetOffset" TypeName="opc:UInt16" />
</opc:StructuredType>

<opc:StructuredType Name="UadpDataSetReaderMessageDataType" BaseType="tns:DataSetReaderMessageDataType">
<opc:Field Name="GroupVersion" TypeName="opc:UInt32" />
<opc:Field Name="NetworkMessageNumber" TypeName="opc:UInt16" />
<opc:Field Name="DataSetOffset" TypeName="opc:UInt16" />
<opc:Field Name="DataSetClassId" TypeName="opc:Guid" />
<opc:Field Name="NetworkMessageContentMask" TypeName="tns:UadpNetworkMessageContentMask" />
<opc:Field Name="DataSetMessageContentMask" TypeName="tns:UadpDataSetMessageContentMask" />
<opc:Field Name="PublishingInterval" TypeName="opc:Double" />
<opc:Field Name="ReceiveOffset" TypeName="opc:Double" />
<opc:Field Name="ProcessingOffset" TypeName="opc:Double" />
</opc:StructuredType>

<opc:EnumeratedType Name="JsonNetworkMessageContentMask" LengthInBits="32" IsOptionSet="true">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="NetworkMessageHeader" Value="1" />
<opc:EnumeratedValue Name="DataSetMessageHeader" Value="2" />
<opc:EnumeratedValue Name="SingleDataSetMessage" Value="4" />
<opc:EnumeratedValue Name="PublisherId" Value="8" />
<opc:EnumeratedValue Name="DataSetClassId" Value="16" />
<opc:EnumeratedValue Name="ReplyTo" Value="32" />
</opc:EnumeratedType>

<opc:StructuredType Name="JsonWriterGroupMessageDataType" BaseType="tns:WriterGroupMessageDataType">
<opc:Field Name="NetworkMessageContentMask" TypeName="tns:JsonNetworkMessageContentMask" />
</opc:StructuredType>

<opc:EnumeratedType Name="JsonDataSetMessageContentMask" LengthInBits="32" IsOptionSet="true">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="DataSetWriterId" Value="1" />
<opc:EnumeratedValue Name="MetaDataVersion" Value="2" />
<opc:EnumeratedValue Name="SequenceNumber" Value="4" />
<opc:EnumeratedValue Name="Timestamp" Value="8" />
<opc:EnumeratedValue Name="Status" Value="16" />
</opc:EnumeratedType>

<opc:StructuredType Name="JsonDataSetWriterMessageDataType" BaseType="tns:DataSetWriterMessageDataType">
<opc:Field Name="DataSetMessageContentMask" TypeName="tns:JsonDataSetMessageContentMask" />
</opc:StructuredType>
<opc:StructuredType Name="JsonDataSetReaderMessageDataType" BaseType="tns:DataSetReaderMessageDataType">
  <opc:Field Name="NetworkMessageContentMask" TypeName="tns:JsonNetworkMessageContentMask" />
  <opc:Field Name="DataSetMessageContentMask" TypeName="tns:JsonDataSetMessageContentMask" />
</opc:StructuredType>

<opc:StructuredType Name="DatagramConnectionTransportDataType" BaseType="tns:ConnectionTransportDataType">
  <opc:Field Name="DiscoveryAddress" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="DatagramWriterGroupTransportDataType" BaseType="tns:WriterGroupTransportDataType">
  <opc:Field Name="MessageRepeatCount" TypeName="opc:Byte" />
  <opc:Field Name="MessageRepeatDelay" TypeName="opc:Double" />
</opc:StructuredType>

<opc:StructuredType Name="BrokerConnectionTransportDataType" BaseType="tns:ConnectionTransportDataType">
  <opc:Field Name="ResourceUri" TypeName="opc:String" />
  <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
</opc:StructuredType>

<opc:EnumeratedType Name="BrokerTransportQualityOfService" LengthInBits="32">
  <opc:EnumeratedValue Name="NotSpecified" Value="0" />
  <opc:EnumeratedValue Name="BestEffort" Value="1" />
  <opc:EnumeratedValue Name="AtLeastOnce" Value="2" />
  <opc:EnumeratedValue Name="AtMostOnce" Value="3" />
  <opc:EnumeratedValue Name="ExactlyOnce" Value="4" />
</opc:EnumeratedType>

<opc:StructuredType Name="BrokerWriterGroupTransportDataType" BaseType="tns:WriterGroupTransportDataType">
  <opc:Field Name="QueueName" TypeName="opc:String" />
  <opc:Field Name="ResourceUri" TypeName="opc:String" />
  <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
  <opc:Field Name="RequestedDeliveryGuarantee" TypeName="tns:BrokerTransportQualityOfService" />
</opc:StructuredType>

<opc:StructuredType Name="BrokerDataSetWriterTransportDataType" BaseType="tns:DataSetWriterTransportDataType">
  <opc:Field Name="QueueName" TypeName="opc:String" />
  <opc:Field Name="ResourceUri" TypeName="opc:String" />
  <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
  <opc:Field Name="RequestedDeliveryGuarantee" TypeName="tns:BrokerTransportQualityOfService" />
</opc:StructuredType>
<opc:EnumeratedValue Name="Browse" Value="1" />
<opc:EnumeratedValue Name="UserRolePermissions" Value="2" />
<opc:EnumeratedValue Name="WriteAttribute" Value="4" />
<opc:EnumeratedValue Name="WriteRolePermissions" Value="8" />
<opc:EnumeratedValue Name="WriteHistorizing" Value="16" />
<opc:EnumeratedValue Name="Read" Value="32" />
<opc:EnumeratedValue Name="Write" Value="64" />
<opc:EnumeratedValue Name="ReadHistory" Value="128" />
<opc:EnumeratedValue Name="InsertHistory" Value="256" />
<opc:EnumeratedValue Name="ModifyHistory" Value="512" />
<opc:EnumeratedValue Name="DeleteHistory" Value="1024" />
<opc:EnumeratedValue Name="ReceiveEvents" Value="2048" />
<opc:EnumeratedValue Name="Call" Value="4096" />
<opc:EnumeratedValue Name="AddReference" Value="8192" />
<opc:EnumeratedValue Name="RemoveReference" Value="16384" />
<opc:EnumeratedValue Name="DeleteNode" Value="32768" />
<opc:EnumeratedValue Name="AddNode" Value="65536" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="AccessLevelType" LengthInBits="8" IsOptionSet="true">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="CurrentRead" Value="1" />
<opc:EnumeratedValue Name="CurrentWrite" Value="2" />
<opc:EnumeratedValue Name="HistoryRead" Value="4" />
<opc:EnumeratedValue Name="HistoryWrite" Value="8" />
<opc:EnumeratedValue Name="SemanticChange" Value="16" />
<opc:EnumeratedValue Name="StatusWrite" Value="32" />
<opc:EnumeratedValue Name="TimestampWrite" Value="64" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="AccessLevelExType" LengthInBits="32" IsOptionSet="true">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="CurrentRead" Value="1" />
<opc:EnumeratedValue Name="CurrentWrite" Value="2" />
<opc:EnumeratedValue Name="HistoryRead" Value="4" />
<opc:EnumeratedValue Name="HistoryWrite" Value="8" />
<opc:EnumeratedValue Name="SemanticChange" Value="16" />
<opc:EnumeratedValue Name="StatusWrite" Value="32" />
<opc:EnumeratedValue Name="TimestampWrite" Value="64" />
<opc:EnumeratedValue Name="NonatomicRead" Value="256" />
<opc:EnumeratedValue Name="NonatomicWrite" Value="512" />
<opc:EnumeratedValue Name="WriteFullArrayOnly" Value="1024" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="EventNotifierType" LengthInBits="8" IsOptionSet="true">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="SubscribeToEvents" Value="1" />
<opc:EnumeratedValue Name="HistoryRead" Value="4" />
</opc:EnumeratedType>
<opc:EnumeratedValue Name="HistoryWrite" Value="8" />
</opc:EnumeratedType>

<opc:StructuredType Name="RolePermissionType" BaseType="ua:ExtensionObject">
  <opc:Field Name="RoleId" TypeName="ua:NodeId" />
  <opc:Field Name="Permissions" TypeName="tns:PermissionType" />
</opc:StructuredType>

<opc:EnumeratedType Name="StructureType" LengthInBits="32">
  <opc:EnumeratedValue Name="Structure" Value="0" />
  <opc:EnumeratedValue Name="StructureWithOptionalFields" Value="1" />
  <opc:EnumeratedValue Name="Union" Value="2" />
</opc:EnumeratedType>

<opc:StructuredType Name="StructureField" BaseType="ua:ExtensionObject">
  <opc:Field Name="Name" TypeName="opc:String" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />
  <opc:Field Name="DataType" TypeName="ua:NodeId" />
  <opc:Field Name="ValueRank" TypeName="opc:Int32" />
  <opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
  <opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
  <opc:Field Name="MaxStringLength" TypeName="opc:UInt32" />
  <opc:Field Name="IsOptional" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="StructureDefinition" BaseType="tns:DataTypeDefinition">
  <opc:Field Name="DefaultEncodingId" TypeName="ua:NodeId" />
  <opc:Field Name="BaseDataType" TypeName="ua:NodeId" />
  <opc:Field Name="StructureType" TypeName="tns:StructureType" />
  <opc:Field Name="NoOfFields" TypeName="opc:Int32" />
  <opc:Field Name="Fields" TypeName="tns:StructureField" LengthField="NoOfFields" />
</opc:StructuredType>

<opc:StructuredType Name="EnumDefinition" BaseType="tns:DataTypeDefinition">
  <opc:Field Name="NoOfFields" TypeName="opc:Int32" />
  <opc:Field Name="Fields" TypeName="tns:EnumField" LengthField="NoOfFields" />
</opc:StructuredType>

<opc:StructuredType Name="Node" BaseType="ua:ExtensionObject">
  <opc:Documentation>Specifies the attributes which belong to all nodes.</opc:Documentation>
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:StructuredType Name="ObjectNode" BaseType="tns:InstanceNode">
  <opc:Documentation>Specifies the attributes which belong to object nodes.</opc:Documentation>
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
  <opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
  <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
  <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
  <opc:Field Name="EventNotifier" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="ObjectTypeNode" BaseType="tns:TypeNode">
  <opc:Documentation>Specifies the attributes which belong to object type nodes.</opc:Documentation>
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
  <opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
  <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
  <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
  <opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="VariableNode" BaseType="tns:InstanceNode">
  <opc:Documentation>Specifies the attributes which belong to variable nodes.</opc:Documentation>
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" /]
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
  <opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
  <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
  <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
  <opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
</opc:StructuredType>
<opc:StructuredType>

<opc:StructuredType Name="ReferenceTypeNode" BaseType="tns:TypeNode">
<opc:Documentation>Specifies the attributes which belong to reference type nodes.</opc:Documentation>
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
<opc:Field Name="Executable" TypeName="opc:Boolean" />
<opc:Field Name="Symmetric" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="MethodNode" BaseType="tns:InstanceNode">
<opc:Documentation>Specifies the attributes which belong to method nodes.</opc:Documentation>
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="Menu" TypeName="opc:Boolean" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
<opc:Field Name="Circular" TypeName="opc:Boolean" />
<opc:Field Name="UserExecutable" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="ViewNode" BaseType="tns:InstanceNode"/>

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<opc:StructuredType Name="Node" BaseType="tns:Node">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />  
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
  <opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
  <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
  <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
  <opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
  <opc:Field Name="IsInverse" TypeName="opc:Boolean" />
  <opc:Field Name="ContainsNoLoops" TypeName="opc:Boolean" />
  <opc:Field Name="EventNotifier" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="DataTypeNode" BaseType="tns:TypeNode">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
  <opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
  <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
  <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
  <opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
  <opc:Field Name="DataTypeDefinition" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="ReferenceNode" BaseType="ua:ExtensionObject">
  <opc:Documentation>Specifies a reference which belongs to a node.</opc:Documentation>
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="IsInverse" TypeName="opc:Boolean" />
  <opc:Field Name="TargetId" TypeName="ua:ExpandedNodeId" />
</opc:StructuredType>
<opc:StructuredType Name="Argument" BaseType="ua:ExtensionObject">
  <opc:Documentation>An argument for a method.</opc:Documentation>
  <opc:Field Name="Name" TypeName="opc:String" />
  <opc:Field Name="DataType" TypeName="ua:NodeId" />
  <opc:Field Name="ValueRank" TypeName="opc:Int32" />
  <opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
  <opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />
</opc:StructuredType>

<opc:StructuredType Name="EnumValueType" BaseType="ua:ExtensionObject">
  <opc:Documentation>A mapping between a value of an enumerated type and a name and description.</opc:Documentation>
  <opc:Field Name="Value" TypeName="opc:Int64" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />
</opc:StructuredType>

<opc:StructuredType Name="EnumField" BaseType="tns:EnumValueType">
  <opc:Field Name="Value" TypeName="opc:Int64" SourceType="tns:EnumValueType" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:EnumValueType" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:EnumValueType" />
  <opc:Field Name="Name" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="OptionSet" BaseType="ua:ExtensionObject">
  <opc:Documentation>This abstract Structured DataType is the base DataType for all DataTypes representing a bit mask.</opc:Documentation>
  <opc:Field Name="Value" TypeName="opc:ByteString" />
  <opc:Field Name="ValidBits" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="Union" BaseType="ua:ExtensionObject">
  <opc:Documentation>This abstract DataType is the base DataType for all union DataTypes.</opc:Documentation>
</opc:StructuredType>

<opc:OpaqueType Name="NormalizedString">
  <opc:Documentation>A string normalized based on the rules in the unicode specification.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="DecimalString">
  <opc:Documentation>An arbitraty numeric value.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="DurationString">
  <opc:Documentation>A period of time formatted as defined in ISO 8601-2000.</opc:Documentation>
</opc:OpaqueType>
<opc:OpaqueType Name="TimeString">
  <opc:Documentation>A time formatted as defined in ISO 8601-2000.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="DateString">
  <opc:Documentation>A date formatted as defined in ISO 8601-2000.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="Duration">
  <opc:Documentation>A period of time measured in milliseconds.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="UtcTime">
  <opc:Documentation>A date/time value specified in Universal Coordinated Time (UTC).</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="LocaleId">
  <opc:Documentation>An identifier for a user locale.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="TimeZoneDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Offset" TypeName="opc:Int16" />
  <opc:Field Name="DaylightSavingInOffset" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:OpaqueType Name="Index">
  <opc:Documentation>This primitive data type is a UInt32 that identifies an element of an array.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="IntegerId">
  <opc:Documentation>A numeric identifier for an object.</opc:Documentation>
</opc:OpaqueType>

<opc:EnumeratedType Name="ApplicationType" LengthInBits="32">
  <opc:Documentation>The types of applications.</opc:Documentation>
  <opc:EnumeratedValue Name="Server" Value="0" />
  <opc:EnumeratedValue Name="Client" Value="1" />
  <opc:EnumeratedValue Name="ClientAndServer" Value="2" />
  <opc:EnumeratedValue Name="DiscoveryServer" Value="3" />
</opc:EnumeratedType>

<opc:StructuredType Name="ApplicationDescription" BaseType="ua:ExtensionObject">
  <opc:Documentation>Describes an application and how to find it.</opc:Documentation>
  <opc:Field Name="ApplicationUri" TypeName="opc:String" />
  <opc:Field Name="ProductUri" TypeName="opc:String" />
  <opc:Field Name="ApplicationName" TypeName="ua:LocalizedText" />
</opc:StructuredType>
<opc:Field Name="ApplicationType" TypeName="tns:ApplicationType" />
<opc:Field Name="GatewayServerUri" TypeName="opc:String" />
<opc:Field Name="DiscoveryProfileUri" TypeName="opc:String" />
<opc:Field Name="NoOfDiscoveryUrls" TypeName="opc:Int32" />
<opc:Field Name="DiscoveryUrls" TypeName="opc:String" LengthField="NoOfDiscoveryUrls" />
</opc:StructuredType>

<opc:StructuredType Name="RequestHeader" BaseType="ua:ExtensionObject">
<opc:Documentation>The header passed with every server request.</opc:Documentation>
<opc:Field Name="AuthenticationToken" TypeName="ua:NodeId" />
<opc:Field Name="Timestamp" TypeName="opc:DateTime" />
<opc:Field Name="RequestHandle" TypeName="opc:UInt32" />
<opc:Field Name="ReturnDiagnostics" TypeName="opc:UInt32" />
<opc:Field Name="AuditEntryId" TypeName="opc:String" />
<opc:Field Name="TimeoutHint" TypeName="opc:UInt32" />
<opc:Field Name="AdditionalHeader" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="ResponseHeader" BaseType="ua:ExtensionObject">
<opc:Documentation>The header passed with every server response.</opc:Documentation>
<opc:Field Name="Timestamp" TypeName="opc:DateTime" />
<opc:Field Name="RequestHandle" TypeName="opc:UInt32" />
<opc:Field Name="ServiceResult" TypeName="ua:StatusCode" />
<opc:Field Name="ServiceDiagnostics" TypeName="ua:DiagnosticInfo" />
<opc:Field Name="NoOfStringTable" TypeName="opc:Int32" />
<opc:Field Name="StringTable" TypeName="opc:String" LengthField="NoOfStringTable" />
<opc:Field Name="AdditionalHeader" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:OpaqueType Name="VersionTime" />
</opc:OpaqueType>

<opc:StructuredType Name="ServiceFault" BaseType="ua:ExtensionObject">
<opc:Documentation>The response returned by all services when there is a service level error.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:StructuredType Name="SessionlessInvokeRequestType" BaseType="ua:ExtensionObject">
<opc:Field Name="NoOfUrisVersion" TypeName="opc:Int32" />
<opc:Field Name="UrisVersion" TypeName="opc:UInt32" LengthField="NoOfUrisVersion" />
<opc:Field Name="NoOfNamespaceUris" TypeName="opc:Int32" />
<opc:Field Name="NamespaceUris" TypeName="opc:String" LengthField="NoOfNamespaceUris" />
<opc:Field Name="NoOfServerUris" TypeName="opc:Int32" />
<opc:Field Name="ServerUris" TypeName="opc:String" LengthField="NoOfServerUris" />
<opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
<opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
<opc:Field Name="ServiceId" TypeName="opc:UInt32" */
<opc:StructuredType>

<opc:StructuredType Name="SessionlessInvokeResponseType" BaseType="ua:ExtensionObject">
<opc:Field Name="NoOfNamespaceUris" TypeName="opc:Int32" />
<opc:Field Name="NamespaceUris" TypeName="opc:String" LengthField="NoOfNamespaceUris" />
<opc:Field Name="NoOfServerUris" TypeName="opc:Int32" />
<opc:Field Name="ServerUris" TypeName="opc:String" LengthField="NoOfServerUris" />
<opc:Field Name="ServiceId" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Finds the servers known to the discovery server.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="EndpointUrl" TypeName="opc:String" />
<opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
<opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
<opc:Field Name="NoOfServerUris" TypeName="opc:Int32" />
<opc:Field Name="ServerUris" TypeName="opc:String" LengthField="NoOfServerUris" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Finds the servers known to the discovery server.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfServers" TypeName="opc:Int32" />
<opc:Field Name="Servers" TypeName="tns:ApplicationDescription" LengthField="NoOfServers" />
</opc:StructuredType>

<opc:StructuredType Name="ServerOnNetwork" BaseType="ua:ExtensionObject">
<opc:Field Name="RecordId" TypeName="opc:UInt32" />
<opc:Field Name="ServerName" TypeName="opc:String" />
<opc:Field Name="DiscoveryUrl" TypeName="opc:String" />
<opc:Field Name="NoOfServerCapabilities" TypeName="opc:Int32" />
<opc:Field Name="ServerCapabilities" TypeName="opc:String" LengthField="NoOfServerCapabilities" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersOnNetworkRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="StartingRecordId" TypeName="opc:UInt32" />
<opc:Field Name="MaxRecordsToReturn" TypeName="opc:UInt32" />
<opc:Field Name="NoOfServerCapabilityFilter" TypeName="opc:Int32" />
<opc:Field Name="ServerCapabilityFilter" TypeName="opc:String" LengthField="NoOfServerCapabilityFilter" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersOnNetworkResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="LastCounterResetTime" TypeName="opc:DateTime" />
<opc:Field Name="NoOfServers" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:Field Name="Servers" TypeName="tns:ServerOnNetwork" LengthField="NoOfServers" />
</opc:StructuredType>

<opc:OpaqueType Name="ApplicationInstanceCertificate">
<opc:Documentation>A certificate for an instance of an application.</opc:Documentation>
</opc:OpaqueType>

<opc:EnumeratedType Name="MessageSecurityMode" LengthInBits="32">
<opc:Documentation>The type of security to use on a message.</opc:Documentation>
<opc:EnumeratedValue Name="Invalid" Value="0" />
<opc:EnumeratedValue Name="None" Value="1" />
<opc:EnumeratedValue Name="Sign" Value="2" />
<opc:EnumeratedValue Name="SignAndEncrypt" Value="3" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="UserTokenType" LengthInBits="32">
<opc:Documentation>The possible user token types.</opc:Documentation>
<opc:EnumeratedValue Name="Anonymous" Value="0" />
<opc:EnumeratedValue Name="UserName" Value="1" />
<opc:EnumeratedValue Name="Certificate" Value="2" />
<opc:EnumeratedValue Name="IssuedToken" Value="3" />
</opc:EnumeratedType>

<opc:StructuredType Name="UserTokenPolicy" BaseType="ua:ExtensionObject">
<opc:Documentation>Describes a user token that can be used with a server.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" />
<opc:Field Name="TokenType" TypeName="tns:UserTokenType" />
<opc:Field Name="IssuedTokenType" TypeName="opc:String" />
<opc:Field Name="IssuerEndpointUrl" TypeName="opc:String" />
<opc:Field Name="SecurityPolicyUri" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="EndpointDescription" BaseType="ua:ExtensionObject">
<opc:Documentation>The description of a endpoint that can be used to access a server.</opc:Documentation>
<opc:Field Name="EndpointUrl" TypeName="opc:String" />
<opc:Field Name="Server" TypeName="tns:ApplicationDescription" />
<opc:Field Name="ServerCertificate" TypeName="opc:ByteString" />
<opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
<opc:Field Name="SecurityPolicyUri" TypeName="opc:String" />
<opc:Field Name="NoOfUserIdentityTokens" TypeName="opc:Int32" LengthField="NoOfUserIdentityTokens" />
<opc:Field Name="UserIdentityTokens" TypeName="tns:UserTokenPolicy" />
<opc:Field Name="TransportProfileUri" TypeName="opc:String" />
<opc:Field Name="SecurityLevel" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="GetEndpointsRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Gets the endpoints used by the server.</opc:Documentation>

<opc:StructuredType Name="RegisterServer2Request" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="Server" TypeName="tns:RegisteredServer" />
  <opc:Field Name="NoOfDiscoveryConfiguration" TypeName="opc:Int32" />
  <opc:Field Name="DiscoveryConfiguration" TypeName="ua:ExtensionObject" LengthField="NoOfDiscoveryConfiguration" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterServer2Response" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfConfigurationResults" TypeName="opc:Int32" />
  <opc:Field Name="ConfigurationResults" TypeName="ua:StatusCode" LengthField="NoOfConfigurationResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:EnumeratedType Name="SecurityTokenRequestType" LengthInBits="32">
  <opc:Documentation>Indicates whether a token if being created or renewed.</opc:Documentation>
  <opc:EnumeratedValue Name="Issue" Value="0" />
  <opc:EnumeratedValue Name="Renew" Value="1" />
</opc:EnumeratedType>

<opc:StructuredType Name="ChannelSecurityToken" BaseType="ua:ExtensionObject">
  <opc:Documentation>The token that identifies a set of keys for an active secure channel.</opc:Documentation>
  <opc:Field Name="ChannelId" TypeName="opc:UInt32" />
  <opc:Field Name="TokenId" TypeName="opc:UInt32" />
  <opc:Field Name="CreatedAt" TypeName="opc:DateTime" />
  <opc:Field Name="RevisedLifetime" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="OpenSecureChannelRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation> Creates a secure channel with a server.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="ClientProtocolVersion" TypeName="opc:UInt32" />
  <opc:Field Name="RequestType" TypeName="tns:SecurityTokenRequestType" />
  <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
  <opc:Field Name="ClientNonce" TypeName="opc:ByteString" />
  <opc:Field Name="RequestedLifetime" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="OpenSecureChannelResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation> Creates a secure channel with a server.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="ServerProtocolVersion" TypeName="opc:UInt32" />
</opc:StructuredType>
<opc:Field Name="SecurityToken" TypeName="tns:ChannelSecurityToken" />
<opc:Field Name="ServerNonce" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="CloseSecureChannelRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Closes a secure channel.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
</opc:StructuredType>

<opc:StructuredType Name="CloseSecureChannelResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Closes a secure channel.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:StructuredType Name="SignedSoftwareCertificate" BaseType="ua:ExtensionObject">
<opc:Documentation>A software certificate with a digital signature.</opc:Documentation>
<opc:Field Name="CertificateData" TypeName="opc:ByteString" />
<opc:Field Name="Signature" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:OpaqueType Name="SessionAuthenticationToken">
<opc:Documentation>A unique identifier for a session used to authenticate requests.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="SignatureData" BaseType="ua:ExtensionObject">
<opc:Documentation>A digital signature.</opc:Documentation>
<opc:Field Name="Algorithm" TypeName="opc:String" />
<opc:Field Name="Signature" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="CreateSessionRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Creates a new session with the server.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="ClientDescription"TypeName="tns:ApplicationDescription" />
<opc:Field Name="ServerUri" TypeName="opc:String" />
<opc:Field Name="EndpointUrl" TypeName="opc:String" />
<opc:Field Name="SessionName" TypeName="opc:String" />
<opc:Field Name="ClientNonce" TypeName="opc:ByteString" />
<opc:Field Name="ClientCertificate" TypeName="opc:ByteString" />
<opc:Field Name="RequestedSessionTimeout" TypeName="opc:Double" />
<opc:Field Name="MaxResponseMessageSize" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="CreateSessionResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Creates a new session with the server.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="SessionId" TypeName="ua:NodeId" />
<opc:Field Name="AuthenticationToken" TypeName="ua:NodeId" />
<opc:Field Name="RevisedSessionTimeout" TypeName="opc:Double" />
<opc:Field Name="ServerNonce" TypeName="opc:ByteString" />
<opc:Field Name="ServerCertificate" TypeName="opc:ByteString" />
<opc:Field Name="NoOfServerEndpoints" TypeName="opc:Int32" />
<opc:Field Name="ServerEndpoints" TypeName="tns:EndpointDescription"
LengthField="NoOfServerEndpoints" />
<opc:Field Name="NoOfServerSoftwareCertificates" TypeName="opc:Int32" />
<opc:Field Name="ServerSoftwareCertificates" TypeName="tns:SignedSoftwareCertificate"
LengthField="NoOfServerSoftwareCertificates" />
<opc:Field Name="ServerSignature" TypeName="tns:SignatureData" />
<opc:Field Name="MaxRequestMessageSize" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="UserIdentityToken" BaseType="ua:ExtensionObject">
<opc:Documentation>A base type for a user identity token.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="AnonymousIdentityToken" BaseType="tns:UserIdentityToken">
<opc:Documentation>A token representing an anonymous user.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
</opc:StructuredType>

<opc:StructuredType Name="UserNameIdentityToken" BaseType="tns:UserIdentityToken">
<opc:Documentation>A token representing a user identified by a user name and password.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
<opc:Field Name="UserName" TypeName="opc:String" />
<opc:Field Name="Password" TypeName="opc:ByteString" />
<opc:Field Name="EncryptionAlgorithm" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="X509IdentityToken" BaseType="tns:UserIdentityToken">
<opc:Documentation>A token representing a user identified by an X509 certificate.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
<opc:Field Name="CertificateData" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="IssuedIdentityToken" BaseType="tns:UserIdentityToken">
<opc:Documentation>A token representing a user identified by a WS-Security XML token.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
<opc:Field Name="TokenData" TypeName="opc:ByteString" />
<opc:Field Name="EncryptionAlgorithm" TypeName="opc:String" />
</opc:StructuredType>

<opc:OpaqueType Name="RsaEncryptedSecret" />

<opc:OpaqueType Name="EccEncryptedSecret" />
<opc:OpaqueType>

<opc:StructuredType Name="ActivateSessionRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Activates a session with the server.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="ClientSignature" TypeName="tns:SignatureData" />
<opc:Field Name="NoOfClientSoftwareCertificates" TypeName="opc:Int32" />
<opc:Field Name="ClientSoftwareCertificates" TypeName="tns:SignedSoftwareCertificate" LengthField="NoOfClientSoftwareCertificates" />
<opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
<opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
<opc:Field Name="UserIdentityToken" TypeName="ua:ExtensionObject" />
<opc:Field Name="UserTokenSignature" TypeName="tns:SignatureData" />
</opc:StructuredType>

<opc:StructuredType Name="ActivateSessionResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Activates a session with the server.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="ServerNonce" TypeName="opc:ByteString" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="CloseSessionRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Closes a session with the server.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="DeleteSubscriptions" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="CloseSessionResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Closes a session with the server.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:StructuredType Name="CancelRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Cancels an outstanding request.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="RequestHandle" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="CancelResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Cancels an outstanding request.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="CancelCount" TypeName="opc:UInt32" />
</opc:StructuredType>
<opc:EnumeratedType Name="NodeAttributesMask" LengthInBits="32">
  <opc:Documentation>The bits used to specify default attributes for a new node.</opc:Documentation>
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="AccessLevel" Value="1" />
  <opc:EnumeratedValue Name="ArrayDimensions" Value="2" />
  <opc:EnumeratedValue Name="BrowseName" Value="4" />
  <opc:EnumeratedValue Name="ContainsNoLoops" Value="8" />
  <opc:EnumeratedValue Name="DataType" Value="16" />
  <opc:EnumeratedValue Name="Description" Value="32" />
  <opc:EnumeratedValue Name="DisplayName" Value="64" />
  <opc:EnumeratedValue Name="EventNotifier" Value="128" />
  <opc:EnumeratedValue Name="Executable" Value="256" />
  <opc:EnumeratedValue Name="Historizing" Value="512" />
  <opc:EnumeratedValue Name="InverseName" Value="1024" />
  <opc:EnumeratedValue Name="IsAbstract" Value="2048" />
  <opc:EnumeratedValue Name="MinimumSamplingInterval" Value="4096" />
  <opc:EnumeratedValue Name="NodeClass" Value="8192" />
  <opc:EnumeratedValue Name="NodeId" Value="16384" />
  <opc:EnumeratedValue Name="Symmetric" Value="32768" />
  <opc:EnumeratedValue Name="UserAccessLevel" Value="65536" />
  <opc:EnumeratedValue Name="UserExecutable" Value="131072" />
  <opc:EnumeratedValue Name="UserWriteMask" Value="262144" />
  <opc:EnumeratedValue Name="ValueRank" Value="524288" />
  <opc:EnumeratedValue Name="WriteMask" Value="1048576" />
  <opc:EnumeratedValue Name="Value" Value="2097152" />
  <opc:EnumeratedValue Name="DataTypeDefinition" Value="4194304" />
  <opc:EnumeratedValue Name="RolePermissions" Value="8388608" />
  <opc:EnumeratedValue Name="AccessRestrictions" Value="16777216" />
  <opc:EnumeratedValue Name="All" Value="33554431" />
  <opc:EnumeratedValue Name="BaseNode" Value="26501220" />
  <opc:EnumeratedValue Name="Object" Value="26501348" />
  <opc:EnumeratedValue Name="ObjectType" Value="26503268" />
  <opc:EnumeratedValue Name="Variable" Value="26571383" />
  <opc:EnumeratedValue Name="VariableType" Value="28600438" />
  <opc:EnumeratedValue Name="Method" Value="26632548" />
  <opc:EnumeratedValue Name="ReferenceType" Value="26537060" />
  <opc:EnumeratedValue Name="View" Value="26501356" />
</opc:EnumeratedType>

<opc:StructuredType Name="NodeAttributes" BaseType="ua:ExtensionObject">
  <opc:Documentation>The base attributes for all nodes.</opc:Documentation>
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" />
</opc:StructuredType>
<opc:StructuredType Name="ObjectAttributes" BaseType="tns:NodeAttributes">
<opc:Documentation>The attributes for an object node.</opc:Documentation>
<opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="EventNotifier" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="VariableAttributes" BaseType="tns:NodeAttributes">
<opc:Documentation>The attributes for a variable node.</opc:Documentation>
<opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="Value" TypeName="ua:Variant" />
<opc:Field Name="DataType" TypeName="ua:NodeId" />
<opc:Field Name="ValueRank" TypeName="opc:Int32" />
<opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
<opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
<opc:Field Name="AccessLevel" TypeName="opc:Byte" />
<opc:Field Name="UserAccessLevel" TypeName="opc:Byte" />
<opc:Field Name="MinimumSamplingInterval" TypeName="opc:Double" />
<opc:Field Name="Historizing" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="MethodAttributes" BaseType="tns:NodeAttributes">
<opc:Documentation>The attributes for a method node.</opc:Documentation>
<opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="Executable" TypeName="opc:Boolean" />
<opc:Field Name="UserExecutable" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="ObjectTypeAttributes" BaseType="tns:NodeAttributes">
<opc:Documentation>The attributes for an object type node.</opc:Documentation>
<opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
</opc:StructuredType>
<opc:StructuredType Name="VariableTypeAttributes" BaseType="tns:NodeAttributes">
<opc:Documentation>The attributes for a variable type node.</opc:Documentation>
<opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes"/>
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes"/>
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes"/>
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes"/>
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes"/>
<opc:Field Name="Value" TypeName="ua:Variant"/>
<opc:Field Name="DataType" TypeName="ua:NodeId"/>
<opc:Field Name="ValueRank" TypeName="opc:Int32"/>
<opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32"/>
<opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions"/>
<opc:Field Name="IsAbstract" TypeName="opc:Boolean"/>
</opc:StructuredType>

<opc:StructuredType Name="ReferenceTypeAttributes" BaseType="tns:NodeAttributes">
<opc:Documentation>The attributes for a reference type node.</opc:Documentation>
<opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes"/>
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes"/>
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes"/>
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes"/>
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes"/>
<opc:Field Name="IsAbstract" TypeName="opc:Boolean"/>
<opc:Field Name="Symmetric" TypeName="opc:Boolean"/>
<opc:Field Name="InverseName" TypeName="ua:LocalizedText"/>
</opc:StructuredType>

<opc:StructuredType Name="DataTypeAttributes" BaseType="tns:NodeAttributes">
<opc:Documentation>The attributes for a data type node.</opc:Documentation>
<opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes"/>
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes"/>
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes"/>
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes"/>
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes"/>
<opc:Field Name="IsAbstract" TypeName="opc:Boolean"/>
</opc:StructuredType>

<opc:StructuredType Name="ViewAttributes" BaseType="tns:NodeAttributes">
<opc:Documentation>The attributes for a view node.</opc:Documentation>
<opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes"/> 
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes"/>
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes"/>
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes"/>
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes"/>
<opc:Field Name="ContainsNoLoops" TypeName="opc:Boolean"/>
<opc:Field Name="EventNotifier" TypeName="opc:Byte"/>
</opc:StructuredType>
<opc:StructuredType Name="GenericAttributeValue" BaseType="ua:ExtensionObject">
    <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
    <opc:Field Name="Value" TypeName="ua:Variant" />
</opc:StructuredType>

<opc:StructuredType Name="GenericAttributes" BaseType="tns:NodeAttributes">
    <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
    <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
    <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="NoOfAttributeValues" TypeName="opc:Int32" />
    <opc:Field Name="AttributeValues" TypeName="tns:GenericAttributeValue" LengthField="NoOfAttributeValues" />
</opc:StructuredType>

<opc:StructuredType Name="AddNodesItem" BaseType="ua:ExtensionObject">
    <opc:Documentation>A request to add a node to the server address space.</opc:Documentation>
    <opc:Field Name="ParentNodeId" TypeName="ua:ExpandedNodeId" />
    <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
    <opc:Field Name="RequestedNewNodeId" TypeName="ua:ExpandedNodeId" />
    <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" />
    <opc:Field Name="NodeClass" TypeName="tns:NodeClass" />
    <opc:Field Name="NodeAttributes" TypeName="ua:ExtensionObject" />
    <opc:Field Name="TypeDefinition" TypeName="ua:ExpandedNodeId" />
</opc:StructuredType>

<opc:StructuredType Name="AddNodesResult" BaseType="ua:ExtensionObject">
    <opc:Documentation>A result of an add node operation.</opc:Documentation>
    <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
    <opc:Field Name="AddedNodeId" TypeName="ua:NodeId" />
</opc:StructuredType>

<opc:StructuredType Name="AddNodesRequest" BaseType="ua:ExtensionObject">
    <opc:Documentation>Adds one or more nodes to the server address space.</opc:Documentation>
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
    <opc:Field Name="NoOfNodesToAdd" TypeName="opc:Int32" />
    <opc:Field Name="NodesToAdd" TypeName="tns:AddNodesItem" LengthField="NoOfNodesToAdd" />
</opc:StructuredType>

<opc:StructuredType Name="AddNodesResponse" BaseType="ua:ExtensionObject">
    <opc:Documentation>Adds one or more nodes to the server address space.</opc:Documentation>
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
    <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
    <opc:Field Name="Results" TypeName="tns:AddNodesResult" LengthField="NoOfResults" />
    <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
    <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
<opc:StructuredType Name="AddReferencesItem" BaseType="ua:ExtensionObject">
  <opc:Documentation>A request to add a reference to the server address space.</opc:Documentation>
  <opc:Field Name="SourceNodeId" TypeName="ua:NodeId" />
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="IsForward" TypeName="opc:Boolean" />
  <opc:Field Name="TargetServerUri" TypeName="opc:String" />
  <opc:Field Name="TargetNodeId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="TargetNodeClass" TypeName="tns:NodeClass" />
</opc:StructuredType>

<opc:StructuredType Name="AddReferencesRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Adds one or more references to the server address space.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfReferencesToAdd" TypeName="opc:Int32" LengthField="NoOfReferencesToAdd" />
  <opc:Field Name="ReferencesToAdd" TypeName="tns:AddReferencesItem" LengthField="NoOfReferencesToAdd" />
</opc:StructuredType>

<opc:StructuredType Name="AddReferencesResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Adds one or more references to the server address space.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteNodesItem" BaseType="ua:ExtensionObject">
  <opc:Documentation>A request to delete a node to the server address space.</opc:Documentation>
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="DeleteTargetReferences" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteNodesRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Delete one or more nodes from the server address space.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfNodesToDelete" TypeName="opc:Int32" />
  <opc:Field Name="NodesToDelete" TypeName="tns:DeleteNodesItem" LengthField="NoOfNodesToDelete" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteNodesResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Delete one or more nodes from the server address space.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:StructuredType Name="DeleteReferencesItem" BaseType="ua:ExtensionObject">
  <opc:Documentation>A request to delete a node from the server address space.</opc:Documentation>
  <opc:Field Name="SourceNodeId" TypeName="ua:NodeId" />
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="IsForward" TypeName="opc:Boolean" />
  <opc:Field Name="TargetNodeId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="DeleteBidirectional" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteReferencesRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Delete one or more references from the server address space.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfReferencesToDelete" TypeName="opc:Int32" LengthField="NoOfReferencesToDelete" />
  <opc:Field Name="ReferencesToDelete" TypeName="tns:DeleteReferencesItem" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteReferencesResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Delete one or more references from the server address space.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:EnumeratedType Name="AttributeWriteMask" LengthInBits="32" IsOptionSet="true">
  <opc:Documentation>Define bits used to indicate which attributes are writable.</opc:Documentation>
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="AccessLevel" Value="1" />
  <opc:EnumeratedValue Name="ArrayDimensions" Value="2" />
  <opc:EnumeratedValue Name="BrowseName" Value="4" />
  <opc:EnumeratedValue Name="ContainsNoLoops" Value="8" />
  <opc:EnumeratedValue Name="DataType" Value="16" />
  <opc:EnumeratedValue Name="Description" Value="32" />
  <opc:EnumeratedValue Name="DisplayName" Value="64" />
  <opc:EnumeratedValue Name="EventNotifier" Value="128" />
  <opc:EnumeratedValue Name="Executable" Value="256" />
  <opc:EnumeratedValue Name="Historizing" Value="512" />
  <opc:EnumeratedValue Name="InverseName" Value="1024" />
  <opc:EnumeratedValue Name="IsAbstract" Value="2048" />
  <opc:EnumeratedValue Name="MinimumSamplingInterval" Value="4096" />
  <opc:EnumeratedValue Name="NodeClass" Value="8192" />
  <opc:EnumeratedValue Name="Symmetric" Value="32768" />
</opc:EnumeratedType>
<opc:EnumeratedValue Name="ReferenceTypeInfo" Value="3" />
<opc:EnumeratedValue Name="TargetInfo" Value="60" />
</opc:EnumeratedType>

<opc:StructuredType Name="ReferenceDescription" BaseType="ua:ExtensionObject">
  <opc:Documentation>The description of a reference.</opc:Documentation>
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="IsForward" TypeName="opc:Boolean" />
  <opc:Field Name="NodeId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" />
  <opc:Field Name="TypeDefinition" TypeName="ua:ExpandedNodeId" />
</opc:StructuredType>

<opc:OpaqueType Name="ContinuationPoint">
  <opc:Documentation>An identifier for a suspended query or browse operation.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="BrowseResult" BaseType="ua:ExtensionObject">
  <opc:Documentation>The result of a browse operation.</opc:Documentation>
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="ContinuationPoint" TypeName="opc:ByteString" />
  <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceDescription" LengthField="NoOfReferences" />
</opc:StructuredType>

<opc:StructuredType Name="BrowseRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Browse the references for one or more nodes from the server address space.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="View" TypeName="tns:ViewDescription" />
  <opc:Field Name="RequestedMaxReferencesPerNode" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfNodesToBrowse" TypeName="opc:Int32" />
</opc:StructuredType>

<opc:StructuredType Name="BrowseResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Browse the references for one or more nodes from the server address space.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:BrowseResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>
<opc:StructuredType Name="BrowseNextRequest" BaseType="ua:ExtensionObject">
    <opc:Documentation>Continues one or more browse operations.</opc:Documentation>
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
    <opc:Field Name="ReleaseContinuationPoints" TypeName="opc:Boolean" />
    <opc:Field Name="NoOfContinuationPoints" TypeName="opc:Int32" />
    <opc:Field Name="ContinuationPoints" TypeName="opc:ByteString" LengthField="NoOfContinuationPoints" />
</opc:StructuredType>

<opc:StructuredType Name="BrowseNextResponse" BaseType="ua:ExtensionObject">
    <opc:Documentation>Continues one or more browse operations.</opc:Documentation>
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
    <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
    <opc:Field Name="Results" TypeName="tns:BrowseResult" LengthField="NoOfResults" />
    <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
    <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="RelativePathElement" BaseType="ua:ExtensionObject">
    <opc:Documentation>An element in a relative path.</opc:Documentation>
    <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
    <opc:Field Name="IsInverse" TypeName="opc:Boolean" />
    <opc:Field Name="IncludeSubtypes" TypeName="opc:Boolean" />
    <opc:Field Name="TargetName" TypeName="ua:QualifiedName" />
</opc:StructuredType>

<opc:StructuredType Name="RelativePath" BaseType="ua:ExtensionObject">
    <opc:Documentation>A relative path constructed from reference types and browse names.</opc:Documentation>
    <opc:Field Name="NoOfElements" TypeName="opc:Int32" />
    <opc:Field Name="Elements" TypeName="tns:RelativePathElement" LengthField="NoOfElements" />
</opc:StructuredType>

<opc:StructuredType Name="BrowsePath" BaseType="ua:ExtensionObject">
    <opc:Documentation>A request to translate a path into a node id.</opc:Documentation>
    <opc:Field Name="StartingNode" TypeName="ua:NodeId" />
    <opc:Field Name="RelativePath" TypeName="tns:RelativePath" />
</opc:StructuredType>

<opc:StructuredType Name="BrowsePathTarget" BaseType="ua:ExtensionObject">
    <opc:Documentation>The target of the translated path.</opc:Documentation>
    <opc:Field Name="TargetId" TypeName="ua:ExpandedNodeId" />
    <opc:Field Name="RemainingPathIndex" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="BrowsePathResult" BaseType="ua:ExtensionObject">
    <opc:Documentation>The result of a translate operation.</opc:Documentation>
    <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
    <opc:Field Name="NoOfTargets" TypeName="opc:Int32" />
    <opc:Field Name="Targets" TypeName="tns:BrowsePathTarget" LengthField="NoOfTargets" />
</opc:StructuredType>
<opc:StructuredType Name="TranslateBrowsePathsToNodeIdsRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Translates one or more paths in the server address space.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfBrowsePaths" TypeName="opc:Int32" />
<opc:Field Name="BrowsePaths" TypeName="tns:BrowsePath" LengthField="NoOfBrowsePaths" />
</opc:StructuredType>

<opc:StructuredType Name="TranslateBrowsePathsToNodeIdsResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Translates one or more paths in the server address space.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="tns:BrowsePathResult" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterNodesRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Registers one or more nodes for repeated use within a session.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfNodesToRegister" TypeName="opc:Int32" />
<opc:Field Name="NodesToRegister" TypeName="ua:NodeId" LengthField="NoOfNodesToRegister" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterNodesResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Registers one or more nodes for repeated use within a session.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfRegisteredNodeIds" TypeName="opc:Int32" />
<opc:Field Name="RegisteredNodeIds" TypeName="ua:NodeId" LengthField="NoOfRegisteredNodeIds" />
</opc:StructuredType>

<opc:StructuredType Name="UnregisterNodesRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Unregisters one or more previously registered nodes.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfNodesToUnregister" TypeName="opc:Int32" />
<opc:Field Name="NodesToUnregister" TypeName="ua:NodeId" LengthField="NoOfNodesToUnregister" />
</opc:StructuredType>

<opc:StructuredType Name="UnregisterNodesResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Unregisters one or more previously registered nodes.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:OpaqueType Name="Counter">
<opc:Documentation>A monotonically increasing value.</opc:Documentation>
</opc:OpaqueType>
<opc:OpaqueType Name="NumericRange">
    <opc:Documentation>Specifies a range of array indexes.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="Time">
    <opc:Documentation>A time value specified as HH:MM:SS.SSS.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="Date">
    <opc:Documentation>A date value.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="EndpointConfiguration" BaseType="ua:ExtensionObject">
    <opc:Field Name="OperationTimeout" TypeName="opc:Int32" />
    <opc:Field Name="UseBinaryEncoding" TypeName="opc:Boolean" />
    <opc:Field Name="MaxStringLength" TypeName="opc:Int32" />
    <opc:Field Name="MaxByteStringLength" TypeName="opc:Int32" />
    <opc:Field Name="MaxArrayLength" TypeName="opc:Int32" />
    <opc:Field Name="MaxMessageSize" TypeName="opc:Int32" />
    <opc:Field Name="MaxBufferSize" TypeName="opc:Int32" />
    <opc:Field Name="ChannelLifetime" TypeName="opc:Int32" />
    <opc:Field Name="SecurityTokenLifetime" TypeName="opc:Int32" />
</opc:StructuredType>

<opc:StructuredType Name="QueryDataDescription" BaseType="ua:ExtensionObject">
    <opc:Field Name="RelativePath" TypeName="tns:RelativePath" />
    <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
    <opc:Field Name="IndexRange" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="NodeTypeDescription" BaseType="ua:ExtensionObject">
    <opc:Field Name="TypeDefinitionNode" TypeName="ua:ExpandedNodeId" />
    <opc:Field Name="IncludeSubTypes" TypeName="opc:Boolean" />
    <opc:Field Name="NoOfDataToReturn" TypeName="opc:Int32" />
    <opc:Field Name="DataToReturn" TypeName="tns:QueryDataDescription" LengthField="NoOfDataToReturn" />
</opc:StructuredType>

<opc:EnumeratedType Name="FilterOperator" LengthInBits="32">
    <opc:EnumeratedValue Name="Equals" Value="0" />
    <opc:EnumeratedValue Name="IsNull" Value="1" />
    <opc:EnumeratedValue Name="GreaterThan" Value="2" />
    <opc:EnumeratedValue Name="LessThan" Value="3" />
    <opc:EnumeratedValue Name="GreaterThanOrEqual" Value="4" />
    <opc:EnumeratedValue Name="LessThanOrEqual" Value="5" />
    <opc:EnumeratedValue Name="Like" Value="6" />
    <opc:EnumeratedValue Name="Not" Value="7" />
    <opc:EnumeratedValue Name="Between" Value="8" />
</opc:EnumeratedType>
<opc:EnumeratedValue Name="InList" Value="9" />
<opc:EnumeratedValue Name="And" Value="10" />
<opc:EnumeratedValue Name="Or" Value="11" />
<opc:EnumeratedValue Name="Cast" Value="12" />
<opc:EnumeratedValue Name="InView" Value="13" />
<opc:EnumeratedValue Name="OfType" Value="14" />
<opc:EnumeratedValue Name="RelatedTo" Value="15" />
<opc:EnumeratedValue Name="BitwiseAnd" Value="16" />
<opc:EnumeratedValue Name="BitwiseOr" Value="17" />
</opc:EnumeratedType>

<opc:StructuredType Name="QueryDataSet" BaseType="ua:ExtensionObject">
  <opc:Field Name="NodeId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="TypeDefinitionNode" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="NoOfValues" TypeName="opc:Int32" />
  <opc:Field Name="Values" TypeName="ua:Variant" LengthField="NoOfValues" />
</opc:StructuredType>

<opc:StructuredType Name="NodeReference" BaseType="ua:ExtensionObject">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="IsForward" TypeName="opc:Boolean" />
  <opc:Field Name="NoOfReferencedNodeIds" TypeName="opc:Int32" />
  <opc:Field Name="ReferencedNodeIds" TypeName="ua:NodeId" LengthField="NoOfReferencedNodeIds" />
</opc:StructuredType>

<opc:StructuredType Name="ContentFilterElement" BaseType="ua:ExtensionObject">
  <opc:Field Name="FilterOperator" TypeName="tns:FilterOperator" />
  <opc:Field Name="NoOfFilterOperands" TypeName="opc:Int32" />
  <opc:Field Name="FilterOperands" TypeName="ua:ExtensionObject" LengthField="NoOfFilterOperands" />
</opc:StructuredType>

<opc:StructuredType Name="ContentFilter" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfElements" TypeName="opc:Int32" />
  <opc:Field Name="Elements" TypeName="tns:ContentFilterElement" LengthField="NoOfElements" />
</opc:StructuredType>

<opc:StructuredType Name="FilterOperand" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfElements" TypeName="opc:Int32" />
</opc:StructuredType>

<opc:StructuredType Name="ElementOperand" BaseType="tns:FilterOperand">
  <opc:Field Name="Index" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="LiteralOperand" BaseType="tns:FilterOperand">
  <opc:Field Name="Value" TypeName="ua:Variant" />
</opc:StructuredType>
<opc:StructuredType Name="QueryFirstResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfQueryDataSets" TypeName="opc:Int32" />
  <opc:Field Name="QueryDataSets" TypeName="tns:QueryDataSet" LengthField="NoOfQueryDataSets" />
  <opc:Field Name="ContinuationPoint" TypeName="opc:ByteString" />
  <opc:Field Name="NoOfParsingResults" TypeName="opc:Int32" />
  <opc:Field Name="ParsingResults" TypeName="tns:ParsingResult" LengthField="NoOfParsingResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
  <opc:Field Name="FilterResult" TypeName="tns:ContentFilterResult" />
</opc:StructuredType>

<opc:StructuredType Name="QueryNextRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="ReleaseContinuationPoint" TypeName="opc:Boolean" />
  <opc:Field Name="ContinuationPoint" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="QueryNextResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfQueryDataSets" TypeName="opc:Int32" />
  <opc:Field Name="QueryDataSets" TypeName="tns:QueryDataSet" LengthField="NoOfQueryDataSets" />
  <opc:Field Name="RevisedContinuationPoint" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:EnumeratedType Name="TimestampsToReturn" LengthInBits="32">
  <opc:EnumeratedValue Name="Source" Value="0" />
  <opc:EnumeratedValue Name="Server" Value="1" />
  <opc:EnumeratedValue Name="Both" Value="2" />
  <opc:EnumeratedValue Name="Neither" Value="3" />
  <opc:EnumeratedValue Name="Invalid" Value="4" />
</opc:EnumeratedType>

<opc:StructuredType Name="ReadValueId" BaseType="ua:ExtensionObject">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
  <opc:Field Name="IndexRange" TypeName="opc:String" />
  <opc:Field Name="DataEncoding" TypeName="ua:QualifiedName" />
</opc:StructuredType>

<opc:StructuredType Name="ReadRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
</opc:StructuredType>
<opc:StructuredType Name="OpenSourceUsedInkASA v1.5 10045"/>

<opc:Field Name="NextOfAggregateType" TypeName="opc:Int32"/>
<opc:Field Name="AggregateType" TypeName="ua:NodeId" LengthField="NextOfAggregateType"/>
<opc:Field Name="AggregateConfiguration" TypeName="tns:AggregateConfiguration"/>
</opc:StructuredType>

<opc:StructuredType Name="ReadAtTimeDetails" BaseType="tns:HistoryReadDetails"/>
<opc:Field Name="NextOfReqTimes" TypeName="opc:Int32"/>
<opc:Field Name="ReqTimes" TypeName="opc:DateTime" LengthField="NextOfReqTimes"/>
<opc:Field Name="UseSimpleBounds" TypeName="opc:Boolean"/>
</opc:StructuredType>

<opc:StructuredType Name="HistoryData" BaseType="ua:ExtensionObject"/>
<opc:Field Name="NextOfDataValues" TypeName="opc:Int32"/>
<opc:Field Name="DataValues" TypeName="ua:DataValue" LengthField="NextOfDataValues"/>
</opc:StructuredType>

<opc:StructuredType Name="ModificationInfo" BaseType="ua:ExtensionObject"/>
<opc:Field Name="ModificationTime" TypeName="opc:DateTime"/>
<opc:Field Name="UpdateType" TypeName="tns:HistoryUpdateType"/>
<opc:Field Name="UserName" TypeName="opc:String"/>
</opc:StructuredType>

<opc:StructuredType Name="HistoryModifiedData" BaseType="tns:HistoryData"/>
<opc:Field Name="NextOfDataValues" TypeName="opc:Int32"/>
<opc:Field Name="DataValues" TypeName="ua:DataValue" LengthField="NextOfDataValues"/>
<opc:Field Name="NextOfModificationInfos" TypeName="opc:Int32"/>
<opc:Field Name="ModificationInfos" TypeName="tns:ModificationInfo" LengthField="NextOfModificationInfos"/>
</opc:StructuredType>

<opc:StructuredType Name="HistoryEvent" BaseType="ua:ExtensionObject"/>
<opc:Field Name="NextOfEvents" TypeName="opc:Int32"/>
<opc:Field Name="Events" TypeName="tns:HistoryEventFieldList" LengthField="NextOfEvents"/>
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadRequest" BaseType="ua:ExtensionObject"/>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader"/>
<opc:Field Name="HistoryReadDetails" TypeName="ua:ExtensionObject"/>
<opc:Field Name="TimestampsToReturn" TypeName="tns:TimestampsToReturn"/>
<opc:Field Name="ReleaseContinuationPoints" TypeName="opc:Boolean"/>
<opc:Field Name="NextOfNodesToRead" TypeName="opc:Int32"/>
<opc:Field Name="NodesToRead" TypeName="tns:HistoryReadValueId" LengthField="NextOfNodesToRead"/>
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadResponse" BaseType="ua:ExtensionObject"/>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader"/>
<opc:Field Name="NextOfResults" TypeName="opc:Int32"/>
<opc:Field Name="HistoryUpdateDetails" TypeName="ua:ExtensionObject" LengthField="NoOfHistoryUpdateDetails" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryUpdateResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:HistoryUpdateResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="CallMethodRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="ObjectId" TypeName="ua:NodeId" />
  <opc:Field Name="MethodId" TypeName="ua:NodeId" />
  <opc:Field Name="NoOfInputArguments" TypeName="opc:Int32" />
  <opc:Field Name="InputArguments" TypeName="ua:Variant" LengthField="NoOfInputArguments" />
</opc:StructuredType>

<opc:StructuredType Name="CallMethodResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="NoOfInputArgumentResults" TypeName="opc:Int32" />
  <opc:Field Name="InputArgumentResults" TypeName="ua:StatusCode" LengthField="NoOfInputArgumentResults" />
  <opc:Field Name="NoOfInputArgumentDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="InputArgumentDiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfInputArgumentDiagnosticInfos" />
  <opc:Field Name="NoOfOutputArguments" TypeName="opc:Int32" />
  <opc:Field Name="OutputArguments" TypeName="ua:Variant" LengthField="NoOfOutputArguments" />
</opc:StructuredType>

<opc:StructuredType Name="CallRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfMethodsToCall" TypeName="opc:Int32" />
  <opc:Field Name="MethodsToCall" TypeName="tns:CallMethodRequest" LengthField="NoOfMethodsToCall" />
</opc:StructuredType>

<opc:StructuredType Name="CallResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:CallMethodResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:EnumeratedType Name="MonitoringMode" LengthInBits="32">
  <opc:EnumeratedValue Name="Disabled" Value="0" />
</opc:EnumeratedType>
<opc:EnumeratedValue Name="Sampling" Value="1" />
<opc:EnumeratedValue Name="Reporting" Value="2" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="DataChangeTrigger" LengthInBits="32">
<opc:EnumeratedValue Name="Status" Value="0" />
<opc:EnumeratedValue Name="StatusValue" Value="1" />
<opc:EnumeratedValue Name="StatusValueTimestamp" Value="2" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="DeadbandType" LengthInBits="32">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="Absolute" Value="1" />
<opc:EnumeratedValue Name="Percent" Value="2" />
</opc:EnumeratedType>

<opc:StructuredType Name="MonitoringFilter" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="DataChangeFilter" BaseType="tns:MonitoringFilter">
<opc:Field Name="Trigger" TypeName="tns:DataChangeTrigger" />
<opc:Field Name="DeadbandType" TypeName="opc:UInt32" />
<opc:Field Name="DeadbandValue" TypeName="opc:Double" />
</opc:StructuredType>

<opc:StructuredType Name="EventFilter" BaseType="tns:MonitoringFilter">
<opc:Field Name="NoOfSelectClauses" TypeName="opc:Int32" />
<opc:Field Name="SelectClauses" TypeName="tns:SimpleAttributeOperand" LengthField="NoOfSelectClauses" />
<opc:Field Name="WhereClause" TypeName="tns:ContentFilter" />
</opc:StructuredType>

<opc:StructuredType Name="AggregateConfiguration" BaseType="ua:ExtensionObject">
<opc:Field Name="UseServerCapabilitiesDefaults" TypeName="opc:Boolean" />
<opc:Field Name="TreatUncertainAsBad" TypeName="opc:Boolean" />
<opc:Field Name="PercentDataBad" TypeName="opc:Byte" />
<opc:Field Name="PercentDataGood" TypeName="opc:Byte" />
<opc:Field Name="UseSlopedExtrapolation" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="AggregateFilter" BaseType="tns:MonitoringFilter">
<opc:Field Name="StartTime" TypeName="opc:DateTime" />
<opc:Field Name="AggregateType" TypeName="ua:NodeId" />
<opc:Field Name="ProcessingInterval" TypeName="opc:Double" />
<opc:Field Name="AggregateConfiguration" TypeName="tns:AggregateConfiguration" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoringFilterResult" BaseType="ua:ExtensionObject"/>
<opc:StructuredType>
<opc:StructuredType Name="EventFilterResult" BaseType="tns:MonitoringFilterResult">
<opc:Field Name="NoOfSelectClauseResults" TypeName="opc:Int32" />
<opc:Field Name="SelectClauseResults" TypeName="ua:StatusCode" LengthField="NoOfSelectClauseResults" />
<opc:Field Name="NoOfSelectClauseDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="SelectClauseDiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfSelectClauseDiagnosticInfos" />
<opc:Field Name="WhereClauseResult" TypeName="tns:ContentFilterResult" />
</opc:StructuredType>

<opc:StructuredType Name="AggregateFilterResult" BaseType="tns:MonitoringFilterResult">
<opc:Field Name="RevisedStartTime" TypeName="opc:DateTime" />
<opc:Field Name="RevisedProcessingInterval" TypeName="opc:Double" />
<opc:Field Name="RevisedAggregateConfiguration" TypeName="tns:AggregateConfiguration" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoringParameters" BaseType="ua:ExtensionObject">
<opc:Field Name="ClientHandle" TypeName="opc:UInt32" />
<opc:Field Name="SamplingInterval" TypeName="opc:Double" />
<opc:Field Name="Filter" TypeName="ua:ExtensionObject" />
<opc:Field Name="QueueSize" TypeName="opc:UInt32" />
<opc:Field Name="DiscardOldest" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoredItemCreateRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="ItemToMonitor" TypeName="tns:ReadValueId" />
<opc:Field Name="MonitoringMode" TypeName="tns:MonitoringMode" />
<opc:Field Name="RequestedParameters" TypeName="tns:MonitoringParameters" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoredItemCreateResult" BaseType="ua:ExtensionObject">
<opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
<opc:Field Name="MonitoredItemId" TypeName="opc:UInt32" />
<opc:Field Name="RevisedSamplingInterval" TypeName="opc:Double" />
<opc:Field Name="RevisedQueueSize" TypeName="opc:UInt32" />
<opc:Field Name="FilterResult" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="CreateMonitoredItemsRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="TimestampsToReturn" TypeName="tns:TimestampsToReturn" />
<opc:Field Name="NoOfItemsToCreate" TypeName="opc:Int32" />
<opc:Field Name="ItemsToCreate" TypeName="tns:MonitoredItemCreateRequest" LengthField="NoOfItemsToCreate" />
</opc:StructuredType>
<opc:StructuredType Name="CreateMonitoredItemsResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:MonitoredItemCreateResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoredItemModifyRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="MonitoredItemId" TypeName="opc:UInt32" />
  <opc:Field Name="RequestedParameters" TypeName="tns:MonitoringParameters" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoredItemModifyResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="RevisedSamplingInterval" TypeName="opc:Double" />
  <opc:Field Name="RevisedQueueSize" TypeName="opc:UInt32" />
  <opc:Field Name="FilterResult" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="ModifyMonitoredItemsRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="TimestampsToReturn" TypeName="tns:TimestampsToReturn" />
  <opc:Field Name="NoOfItemsToModify" TypeName="opc:Int32" />
  <opc:Field Name="ItemsToModify" TypeName="tns:MonitoredItemModifyRequest" LengthField="NoOfItemsToModify" />
</opc:StructuredType>

<opc:StructuredType Name="ModifyMonitoredItemsResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:MonitoredItemModifyResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="SetMonitoringModeRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="MonitoringMode" TypeName="tns:MonitoringMode" />
  <opc:Field Name="NoOfMonitoredItemIds" TypeName="opc:Int32" />
  <opc:Field Name="MonitoredItemIds" TypeName="opc:UInt32" LengthField="NoOfMonitoredItemIds" />
</opc:StructuredType>

<opc:StructuredType Name="SetMonitoringModeResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>
<opc:StructuredType Name="CreateSubscriptionResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="RevisedPublishingInterval" TypeName="opc:Double" />
  <opc:Field Name="RevisedLifetimeCount" TypeName="opc:UInt32" />
  <opc:Field Name="RevisedMaxKeepAliveCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="ModifySubscriptionRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="RequestedPublishingInterval" TypeName="opc:Double" />
  <opc:Field Name="RequestedLifetimeCount" TypeName="opc:UInt32" />
  <opc:Field Name="RequestedMaxKeepAliveCount" TypeName="opc:UInt32" />
  <opc:Field Name="MaxNotificationsPerPublish" TypeName="opc:UInt32" />
  <opc:Field Name="Priority" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="ModifySubscriptionResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="RevisedPublishingInterval" TypeName="opc:Double" />
  <opc:Field Name="RevisedLifetimeCount" TypeName="opc:UInt32" />
  <opc:Field Name="RevisedMaxKeepAliveCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="SetPublishingModeRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="PublishingEnabled" TypeName="opc:Boolean" />
  <opc:Field Name="NoOfSubscriptionIds" TypeName="opc:Int32" />
  <opc:Field Name="SubscriptionIds" TypeName="opc:UInt32" LengthField="NoOfSubscriptionIds" />
</opc:StructuredType>

<opc:StructuredType Name="SetPublishingModeResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="NotificationMessage" BaseType="ua:ExtensionObject"
<opc:Field Name="SequenceNumber" TypeName="opc:UInt32" />
<opc:Field Name="PublishTime" TypeName="opc:DateTime" />
<opc:Field Name="NoOfNotificationData" TypeName="opc:Int32" />
<opc:Field Name="NotificationData" TypeName="ua:ExtensionObject" LengthField="NoOfNotificationData" />
</opc:StructuredType>

<opc:StructuredType Name="NotificationData" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="DataChangeNotification" BaseType="tns:NotificationData">
<opc:Field Name="NoOfMonitoredItems" TypeName="opc:Int32" />
<opc:Field Name="MonitoredItems" TypeName="tns:MonitoredItemNotification" LengthField="NoOfMonitoredItems" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoredItemNotification" BaseType="ua:ExtensionObject">
<opc:Field Name="ClientHandle" TypeName="opc:UInt32" />
<opc:Field Name="Value" TypeName="ua:DataValue" />
</opc:StructuredType>

<opc:StructuredType Name="EventNotificationList" BaseType="tns:NotificationData">
<opc:Field Name="NoOfEvents" TypeName="opc:Int32" />
<opc:Field Name="Events" TypeName="tns:EventFieldList" LengthField="NoOfEvents" />
</opc:StructuredType>

<opc:StructuredType Name="EventFieldList" BaseType="ua:ExtensionObject">
<opc:Field Name="ClientHandle" TypeName="opc:UInt32" />
<opc:Field Name="NoOfEventFields" TypeName="opc:Int32" />
<opc:Field Name="EventFields" TypeName="ua:Variant" LengthField="NoOfEventFields" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryEventFieldList" BaseType="ua:ExtensionObject">
<opc:Field Name="NoOfEventFields" TypeName="opc:Int32" />
<opc:Field Name="EventFields" TypeName="ua:Variant" LengthField="NoOfEventFields" />
</opc:StructuredType>

<opc:StructuredType Name="StatusChangeNotification" BaseType="tns:NotificationData">
<opc:Field Name="Status" TypeName="ua:StatusCode" />
<opc:Field Name="DiagnosticInfo" TypeName="ua:DiagnosticInfo" />
</opc:StructuredType>

<opc:StructuredType Name="SubscriptionAcknowledgement" BaseType="ua:ExtensionObject">
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="SequenceNumber" TypeName="opc:UInt32" />
</opc:StructuredType>
<opc:StructuredType Name="PublishRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfSubscriptionAcknowledgements" TypeName="opc:Int32" />
  <opc:Field Name="SubscriptionAcknowledgements" TypeName="tns:SubscriptionAcknowledgement" LengthField="NoOfSubscriptionAcknowledgements" />
</opc:StructuredType>

<opc:StructuredType Name="PublishResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfAvailableSequenceNumbers" TypeName="opc:Int32" />
  <opc:Field Name="AvailableSequenceNumbers" TypeName="opc:UInt32" LengthField="NoOfAvailableSequenceNumbers" />
  <opc:Field Name="MoreNotifications" TypeName="opc:Boolean" />
  <opc:Field Name="NotificationMessage" TypeName="tns:NotificationMessage" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="RepublishRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="RetransmitSequenceNumber" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="RepublishResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NotificationMessage" TypeName="tns:NotificationMessage" />
</opc:StructuredType>

<opc:StructuredType Name="TransferResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="NoOfAvailableSequenceNumbers" TypeName="opc:Int32" />
  <opc:Field Name="AvailableSequenceNumbers" TypeName="opc:UInt32" LengthField="NoOfAvailableSequenceNumbers" />
</opc:StructuredType>

<opc:StructuredType Name="TransferSubscriptionsRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfSubscriptionIds" TypeName="opc:Int32" />
  <opc:Field Name="SubscriptionIds" TypeName="opc:UInt32" LengthField="NoOfSubscriptionIds" />
  <opc:Field Name="SendInitialValues" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="TransferSubscriptionsResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="tns:TransferResult" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteSubscriptionsRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfSubscriptionIds" TypeName="opc:Int32" />
<opc:Field Name="SubscriptionIds" TypeName="opc:UInt32" LengthField="NoOfSubscriptionIds" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteSubscriptionsResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="BuildInfo" BaseType="ua:ExtensionObject">
<opc:Field Name="ProductUri" TypeName="opc:String" />
<opc:Field Name="ManufacturerName" TypeName="opc:String" />
<opc:Field Name="ProductName" TypeName="opc:String" />
<opc:Field Name="SoftwareVersion" TypeName="opc:String" />
<opc:Field Name="BuildNumber" TypeName="opc:String" />
<opc:Field Name="BuildDate" TypeName="opc:DateTime" />
</opc:StructuredType>

<opc:EnumeratedType Name="RedundancySupport" LengthInBits="32">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="Cold" Value="1" />
<opc:EnumeratedValue Name="Warm" Value="2" />
<opc:EnumeratedValue Name="Hot" Value="3" />
<opc:EnumeratedValue Name="Transparent" Value="4" />
<opc:EnumeratedValue Name="HotAndMirrored" Value="5" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="ServerState" LengthInBits="32">
<opc:EnumeratedValue Name="Running" Value="0" />
<opc:EnumeratedValue Name="Failed" Value="1" />
<opc:EnumeratedValue Name="NoConfiguration" Value="2" />
<opc:EnumeratedValue Name="Suspended" Value="3" />
<opc:EnumeratedValue Name="Shutdown" Value="4" />
<opc:EnumeratedValue Name="Test" Value="5" />
<opc:EnumeratedValue Name="CommunicationFault" Value="6" />
<opc:EnumeratedValue Name="Unknown" Value="7" />
</opc:EnumeratedType>
<opc:StructuredType Name="RedundantServerDataType" BaseType="ua:ExtensionObject">
    <opc:Field Name="ServerId" TypeName="opc:String" />
    <opc:Field Name="ServiceLevel" TypeName="opc:Byte" />
    <opc:Field Name="ServerState" TypeName="tns:ServerState" />
</opc:StructuredType>

<opc:StructuredType Name="EndpointUrlListDataType" BaseType="ua:ExtensionObject">
    <opc:Field Name="NoOfEndpointUrlList" TypeName="opc:Int32" />
    <opc:Field Name="EndpointUrlList" TypeName="opc:String" LengthField="NoOfEndpointUrlList" />
</opc:StructuredType>

<opc:StructuredType Name="NetworkGroupDataType" BaseType="ua:ExtensionObject">
    <opc:Field Name="ServerUri" TypeName="opc:String" />
    <opc:Field Name="NoOfNetworkPaths" TypeName="opc:Int32" />
    <opc:Field Name="NetworkPaths" TypeName="tns:EndpointUrlListDataType" LengthField="NoOfNetworkPaths" />
</opc:StructuredType>

<opc:StructuredType Name="SamplingIntervalDiagnosticsDataType" BaseType="ua:ExtensionObject">
    <opc:Field Name="SamplingInterval" TypeName="opc:Double" />
    <opc:Field Name="MonitoredItemCount" TypeName="opc:UInt32" />
    <opc:Field Name="MaxMonitoredItemCount" TypeName="opc:UInt32" />
    <opc:Field Name="DisabledMonitoredItemCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="ServerDiagnosticsSummaryDataType" BaseType="ua:ExtensionObject">
    <opc:Field Name="ServerViewCount" TypeName="opc:UInt32" />
    <opc:Field Name="CurrentSessionCount" TypeName="opc:UInt32" />
    <opc:Field Name="CumulatedSessionCount" TypeName="opc:UInt32" />
    <opc:Field Name="SecurityRejectedSessionCount" TypeName="opc:UInt32" />
    <opc:Field Name="RejectedSessionCount" TypeName="opc:UInt32" />
    <opc:Field Name="SessionTimeoutCount" TypeName="opc:UInt32" />
    <opc:Field Name="SessionAbortCount" TypeName="opc:UInt32" />
    <opc:Field Name="CurrentSubscriptionCount" TypeName="opc:UInt32" />
    <opc:Field Name="CumulatedSubscriptionCount" TypeName="opc:UInt32" />
    <opc:Field Name="PublishingIntervalCount" TypeName="opc:UInt32" />
    <opc:Field Name="SecurityRejectedRequestsCount" TypeName="opc:UInt32" />
    <opc:Field Name="RejectedRequestsCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="ServerStatusDataType" BaseType="ua:ExtensionObject">
    <opc:Field Name="StartTime" TypeName="opc:DateTime" />
    <opc:Field Name="CurrentTime" TypeName="opc:DateTime" />
    <opc:Field Name="State" TypeName="tns:ServerState" />
    <opc:Field Name="BuildInfo" TypeName="tns:BuildInfo" />
    <opc:Field Name="SecondsTillShutdown" TypeName="opc:UInt32" />
    <opc:Field Name="ShutdownReason" TypeName="ua:LocalizedText" />
</opc:StructuredType>
<opc:StructuredType Name="SessionDiagnosticsDataType" BaseType="ua:ExtensionObject">
    <opc:Field Name="SessionId" TypeName="ua:NodeId" />
    <opc:Field Name="SessionName" TypeName="opc:String" />
    <opc:Field Name="ServerUri" TypeName="opc:String" />
    <opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
    <opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
    <opc:Field Name="ActualSessionTimeout" TypeName="opc:Double" />
    <opc:Field Name="MaxResponseMessageSize" TypeName="opc:UInt32" />
    <opc:Field Name="ClientConnectionTime" TypeName="opc:DateTime" />
    <opc:Field Name="ClientLastContactTime" TypeName="opc:DateTime" />
    <opc:Field Name="CurrentSubscriptionsCount" TypeName="opc:UInt32" />
    <opc:Field Name="CurrentMonitoredItemsCount" TypeName="opc:UInt32" />
    <opc:Field Name="CurrentPublishRequestsInQueue" TypeName="opc:UInt32" />
    <opc:Field Name="TotalRequestCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="UnauthorizedRequestCount" TypeName="opc:UInt32" />
    <opc:Field Name="ReadCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="HistoryReadCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="WriteCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="HistoryUpdateCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="CallCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="CreateMonitoredItemsCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="ModifyMonitoredItemsCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="SetMonitoringModeCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="SetTriggeringCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="DeleteMonitoredItemsCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="CreateSubscriptionCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="ModifySubscriptionCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="SetPublishingModeCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="PublishCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="RepublishCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="TransferSubscriptionsCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="DeleteSubscriptionsCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="AddNodesCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="AddReferencesCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="DeleteNodesCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="DeleteReferencesCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="BrowseCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="BrowseNextCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="TranslateBrowsePathsToNodeIdsCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="QueryFirstCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="QueryNextCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="RegisterNodesCount" TypeName="tns:ServiceCounterDataType" />
    <opc:Field Name="UnregisterNodesCount" TypeName="tns:ServiceCounterDataType" />
</opc:StructuredType>
<opc:StructuredType Name="SessionSecurityDiagnosticsDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="SessionId" TypeName="ua:NodeId" />
<opc:Field Name="ClientUserIdOfSession" TypeName="opc:String" />
<opc:Field Name="NoOfClientUserIdHistory" TypeName="opc:Int32" />
<opc:Field Name="ClientUserIdHistory" TypeName="opc:String" LengthField="NoOfClientUserIdHistory" />
<opc:Field Name="AuthenticationMechanism" TypeName="opc:String" />
<opc:Field Name="Encoding" TypeName="opc:String" />
<opc:Field Name="TransportProtocol" TypeName="opc:String" />
<opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
<opc:Field Name="SecurityPolicyUri" TypeName="opc:String" />
<opc:Field Name="ClientCertificate" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="ServiceCounterDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="TotalCount" TypeName="opc:UInt32" />
<opc:Field Name="ErrorCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="StatusResult" BaseType="ua:ExtensionObject">
<opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
<opc:Field Name="DiagnosticInfo" TypeName="ua:DiagnosticInfo" />
</opc:StructuredType>

<opc:StructuredType Name="SubscriptionDiagnosticsDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="SessionId" TypeName="ua:NodeId" />
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="Priority" TypeName="opc:Byte" />
<opc:Field Name="PublishingInterval" TypeName="opc:Double" />
<opc:Field Name="MaxKeepAliveCount" TypeName="opc:UInt32" />
<opc:Field Name="MaxLifetimeCount" TypeName="opc:UInt32" />
<opc:Field Name="MaxNotificationsPerPublish" TypeName="opc:UInt32" />
<opc:Field Name="PublishingEnabled" TypeName="opc:Boolean" />
<opc:Field Name="ModifyCount" TypeName="opc:UInt32" />
<opc:Field Name="EnableCount" TypeName="opc:UInt32" />
<opc:Field Name="DisableCount" TypeName="opc:UInt32" />
<opc:Field Name="RepublishRequestCount" TypeName="opc:UInt32" />
<opc:Field Name="RepublishMessageRequestCount" TypeName="opc:UInt32" />
<opc:Field Name="RepublishMessageCount" TypeName="opc:UInt32" />
<opc:Field Name="TransferRequestCount" TypeName="opc:UInt32" />
<opc:Field Name="TransferredToAltClientCount" TypeName="opc:UInt32" />
<opc:Field Name="TransferredToSameClientCount" TypeName="opc:UInt32" />
<opc:Field Name="PublishRequestCount" TypeName="opc:UInt32" />
<opc:Field Name="DataChangeNotificationsCount" TypeName="opc:UInt32" />
<opc:Field Name="EventNotificationsCount" TypeName="opc:UInt32" />
<opc:Field Name="NotificationsCount" TypeName="opc:UInt32" />
<opc:Field Name="LatePublishRequestCount" TypeName="opc:UInt32" />
<opc:Field Name="CurrentKeepAliveCount" TypeName="opc:UInt32" />
</opc:StructuredType>
<opc:Field Name="CurrentLifetimeCount" TypeName="opc:UInt32" />
<opc:Field Name="UnacknowledgedMessageCount" TypeName="opc:UInt32" />
<opc:Field Name="DiscardedMessageCount" TypeName="opc:UInt32" />
<opc:Field Name="MonitoredItemCount" TypeName="opc:UInt32" />
<opc:Field Name="DisabledMonitoredItemCount" TypeName="opc:UInt32" />
<opc:Field Name="MonitoringQueueOverflowCount" TypeName="opc:UInt32" />
<opc:Field Name="NextSequenceNumber" TypeName="opc:UInt32" />
<opc:Field Name="EventQueueOverflowCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:EnumeratedType Name="ModelChangeStructureVerbMask" LengthInBits="32">
  <opc:EnumeratedValue Name="NodeAdded" Value="1" />
  <opc:EnumeratedValue Name="NodeDeleted" Value="2" />
  <opc:EnumeratedValue Name="ReferenceAdded" Value="4" />
  <opc:EnumeratedValue Name="ReferenceDeleted" Value="8" />
  <opc:EnumeratedValue Name="DataTypeChanged" Value="16" />
</opc:EnumeratedType>

<opc:StructuredType Name="ModelChangeStructureDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Affected" TypeName="ua:NodeId" />
  <opc:Field Name="AffectedType" TypeName="ua:NodeId" />
  <opc:Field Name="Verb" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="SemanticChangeStructureDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Affected" TypeName="ua:NodeId" />
  <opc:Field Name="AffectedType" TypeName="ua:NodeId" />
</opc:StructuredType>

<opc:StructuredType Name="Range" BaseType="ua:ExtensionObject">
  <opc:Field Name="Low" TypeName="opc:Double" />
  <opc:Field Name="High" TypeName="opc:Double" />
</opc:StructuredType>

<opc:StructuredType Name="EUInformation" BaseType="ua:ExtensionObject">
  <opc:Field Name="NamespaceUri" TypeName="opc:String" />
  <opc:Field Name="UnitId" TypeName="opc:Int32" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />
</opc:StructuredType>

<opc:EnumeratedType Name="AxisScaleEnumeration" LengthInBits="32">
  <opc:EnumeratedValue Name="Linear" Value="0" />
  <opc:EnumeratedValue Name="Log" Value="1" />
  <opc:EnumeratedValue Name="Ln" Value="2" />
</opc:EnumeratedType>

<opc:StructuredType Name="ComplexNumberType" BaseType="ua:ExtensionObject"
<opc:Field Name="Real" TypeName="opc:Float" />
<opc:Field Name="Imaginary" TypeName="opc:Float" />
</opc:StructuredType>

<opc:StructuredType Name="DoubleComplexNumberType" BaseType="ua:ExtensionObject">
<opc:Field Name="Real" TypeName="opc:Double" />
<opc:Field Name="Imaginary" TypeName="opc:Double" />
</opc:StructuredType>

<opc:StructuredType Name="AxisInformation" BaseType="ua:ExtensionObject">
<opc:Field Name="EngineeringUnits" TypeName="tns:EUInformation" />
<opc:Field Name="EURange" TypeName="tns:Range" />
<opc:Field Name="Title" TypeName="ua:LocalizedText" />
<opc:Field Name="AxisScaleType" TypeName="tns:AxisScaleEnumeration" />
<opc:Field Name="NoOfAxisSteps" TypeName="opc:Int32" />
<opc:Field Name="AxisSteps" TypeName="opc:Double" LengthField="NoOfAxisSteps" />
</opc:StructuredType>

<opc:StructuredType Name="XVType" BaseType="ua:ExtensionObject">
<opc:Field Name="X" TypeName="opc:Double" />
<opc:Field Name="Value" TypeName="opc:Float" />
</opc:StructuredType>

<opc:StructuredType Name="ProgramDiagnosticDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="CreateSessionId" TypeName="ua:NodeId" />
<opc:Field Name="CreateClientName" TypeName="opc:String" />
<opc:Field Name="InvocationCreationTime" TypeName="opc:DateTime" />
<opc:Field Name="LastTransitionTime" TypeName="opc:DateTime" />
<opc:Field Name="LastMethodCall" TypeName="opc:String" />
<opc:Field Name="LastMethodSessionId" TypeName="ua:NodeId" />
<opc:Field Name="NoOfLastMethodInputArguments" TypeName="opc:Int32" />
<opc:Field Name="LastMethodInputArguments" TypeName="tns:Argument" LengthField="NoOfLastMethodInputArguments" />
<opc:Field Name="NoOfLastMethodOutputArguments" TypeName="opc:Int32" />
<opc:Field Name="LastMethodOutputArguments" TypeName="tns:Argument" LengthField="NoOfLastMethodOutputArguments" />
<opc:Field Name="LastMethodCallTime" TypeName="opc:DateTime" />
<opc:Field Name="LastMethodReturnStatus" TypeName="tns:StatusResult" />
</opc:StructuredType>

<opc:StructuredType Name="ProgramDiagnostic2DataType" BaseType="ua:ExtensionObject">
<opc:Field Name="CreateSessionId" TypeName="ua:NodeId" />
<opc:Field Name="CreateClientName" TypeName="opc:String" />
<opc:Field Name="InvocationCreationTime" TypeName="opc:DateTime" />
<opc:Field Name="LastTransitionTime" TypeName="opc:DateTime" />
<opc:Field Name="LastMethodCall" TypeName="opc:String" />
<opc:Field Name="LastMethodSessionId" TypeName="ua:NodeId" />
<opc:Field Name="NoOfLastMethodInputArguments" TypeName="opc:Int32" />
<opc:StructuredType Name="LastMethodInputArguments" TypeName="tns:Argument"
LengthField="NoOfLastMethodInputArguments" />
<opc:Field Name="NoOfLastMethodOutputArguments" TypeName="opc:Int32" />
<opc:Field Name="LastMethodOutputArguments" TypeName="tns:Argument"
LengthField="NoOfLastMethodOutputArguments" />
<opc:Field Name="NoOfLastMethodInputValues" TypeName="opc:Int32" />
<opc:Field Name="LastMethodInputValues" TypeName="ua:Variant"
LengthField="NoOfLastMethodInputValues" />
<opc:Field Name="NoOfLastMethodOutputValues" TypeName="opc:Int32" />
<opc:Field Name="LastMethodOutputValues" TypeName="ua:Variant"
LengthField="NoOfLastMethodOutputValues" />
<opc:Field Name="LastMethodCallTime" TypeName="opc:DateTime" />
<opc:Field Name="LastMethodReturnStatus" TypeName="tns:StatusResult" />
</opc:StructuredType>

<opc:StructuredType Name="Annotation" BaseType="ua:ExtensionObject">
<opc:Field Name="Message" TypeName="opc:String" />
<opc:Field Name="UserName" TypeName="opc:String" />
<opc:Field Name="AnnotationTime" TypeName="opc:DateTime" />
</opc:StructuredType>

<opc:EnumeratedType Name="ExceptionDeviationFormat" LengthInBits="32">
<opc:EnumeratedValue Name="AbsoluteValue" Value="0" />
<opc:EnumeratedValue Name="PercentOfValue" Value="1" />
<opc:EnumeratedValue Name="PercentOfRange" Value="2" />
<opc:EnumeratedValue Name="PercentOfEURange" Value="3" />
<opc:EnumeratedValue Name="Unknown" Value="4" />
</opc:EnumeratedType>

</opc:TypeDictionary>

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* /opt/cola/permits/1168237001_1621962030.66/0/netty-transport-4-1-63-final-jar/META-INF/native-image/io.netty/transport/native-image.properties
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Manifest-Version: 1.0
Implementation-Title: Netty/Transport
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high performance protocol servers and clients.

**Automatic-Module-Name:** io.netty.transport

**Bundle-License:** https://www.apache.org/licenses/LICENSE-2.0

**Bundle-SymbolicName:** io.netty.transport

**Implementation-Version:** 4.1.63.Final

**Built-By:** root

**Bnd-LastModified:** 1617274755207

**Bundle-ManifestVersion:** 2

**Implementation-Vendor-Id:** io.netty

**Bundle-DocURL:** https://netty.io/

**Bundle-Vendor:** The Netty Project

**Import-Package:**
- io.netty.buffer;version="[4.1,5)",io.netty.resolver;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

**Require-Capability:** osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

**Tool:** Bnd-2.4.1.201501161923

**Implementation-Vendor:** The Netty Project

**Export-Package:**

**Bundle-Name:** Netty/Transport

**Bundle-Version:** 4.1.63.Final

**Created-By:** Apache Maven Bundle Plugin

**Build-Jdk:** 1.8.0_272

**Implementation-URL:** https://netty.io/netty-transport/

**Found in path(s):**

* /opt/cola/permits/1168237001_1621962030.66/0/netty-transport-4-1-63-final-jar/META-INF/MANIFEST.MF

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1.1148 sigs.k8s.io/structured-merge-diff/v3
v3.0.0

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1.1158 konnectivity-client v0.0.14

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1.1159 gopcua-opcua 0.1.13

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<opc:TypeDictionary
xmlns:opc="http://opcfoundation.org/BinarySchema/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:ua="http://opcfoundation.org/UA/"
xmlns:tns="http://opcfoundation.org/UA/"
DefaultByteOrder="LittleEndian"
TargetNamespace="http://opcfoundation.org/UA/"
>

<opc:Import Namespace="http://opcfoundation.org/BinarySchema/
"/>

<opc:StructuredType Name="XmlElement">
  <opc:Documentation>An XML element encoded as a UTF-8 string.</opc:Documentation>
  <opc:Field Name="Length" TypeName="opc:Int32" />
  <opc:Field Name="Value" TypeName="opc:Char" LengthField="Length" />
</opc:StructuredType>

<opc:EnumeratedType Name="NodeIdType" LengthInBits="6">
  <opc:Documentation>The possible encodings for a NodeId value.</opc:Documentation>
  <opc:EnumeratedValue Name="TwoByte" Value="0" />
  <opc:EnumeratedValue Name="FourByte" Value="1" />
  <opc:EnumeratedValue Name="Numeric" Value="2" />
  <opc:EnumeratedValue Name="String" Value="3" />
  <opc:EnumeratedValue Name="Guid" Value="4" />
  <opc:EnumeratedValue Name="ByteString" Value="5" />
</opc:EnumeratedType>

<opc:StructuredType Name="TwoByteNodeId">
  <opc:Field Name="Identifier" TypeName="opc:Byte" />
</opc:StructuredType>
<opc:StructuredType Name="FourByteNodeId">
  <opc:Field Name="NamespaceIndex" TypeName="opc:Byte" />
  <opc:Field Name="Identifier" TypeName="opc:UInt16" />
</opc:StructuredType>

<opc:StructuredType Name="NumericNodeId">
  <opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
  <opc:Field Name="Identifier" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="StringNodeId">
  <opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
  <opc:Field Name="Identifier" TypeName="opc:CharArray" />
</opc:StructuredType>

<opc:StructuredType Name="GuidNodeId">
  <opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
  <opc:Field Name="Identifier" TypeName="opc:Guid" />
</opc:StructuredType>

<opc:StructuredType Name="ByteStringNodeId">
  <opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
  <opc:Field Name="Identifier" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="NodeId">
  <opc:Documentation>An identifier for a node in a UA server address space.</opc:Documentation>
  <opc:Field Name="NodeIdType" TypeName="ua:NodeIdType" />
  <opc:Field Name="Reserved1" TypeName="opc:Bit" Length="2" />
  <opc:Field Name="TwoByte" TypeName="ua:TwoByteNodeId" SwitchField="NodeIdType" SwitchValue="0" />
  <opc:Field Name="FourByte" TypeName="ua:FourByteNodeId" SwitchField="NodeIdType" SwitchValue="1" />
  <opc:Field Name="Numeric" TypeName="ua:NumericNodeId" SwitchField="NodeIdType" SwitchValue="2" />
  <opc:Field Name="String" TypeName="ua:StringNodeId" SwitchField="NodeIdType" SwitchValue="3" />
  <opc:Field Name="Guid" TypeName="ua:GuidNodeId" SwitchField="NodeIdType" SwitchValue="4" />
  <opc:Field Name="ByteString" TypeName="ua:ByteStringNodeId" SwitchField="NodeIdType" SwitchValue="5" />
</opc:StructuredType>

<opc:StructuredType Name="ExpandedNodeId">
  <opc:Documentation>An identifier for a node in a UA server address space qualified with a complete namespace string.</opc:Documentation>
  <opc:Field Name="NodeIdType" TypeName="ua:NodeIdType" />
  <opc:Field Name="ServerIndexSpecified" TypeName="opc:Bit" />
  <opc:Field Name="NamespaceURISpecified" TypeName="opc:Bit" />
  <opc:Field Name="TwoByte" TypeName="ua:TwoByteNodeId" SwitchField="NodeIdType" SwitchValue="0" />
  <opc:Field Name="FourByte" TypeName="ua:FourByteNodeId" SwitchField="NodeIdType" SwitchValue="1" />
  <opc:Field Name="Numeric" TypeName="ua:NumericNodeId" SwitchField="NodeIdType" SwitchValue="2" />
  <opc:Field Name="String" TypeName="ua:StringNodeId" SwitchField="NodeIdType" SwitchValue="3" />
  <opc:Field Name="Guid" TypeName="ua:GuidNodeId" SwitchField="NodeIdType" SwitchValue="4" />
  <opc:Field Name="ByteString" TypeName="ua:ByteStringNodeId" SwitchField="NodeIdType" SwitchValue="5" />
</opc:StructuredType>
<opc:Field Name="Numeric" TypeName="ua:NumericNodeId" SwitchField="NodeIdType" SwitchValue="2" />
<opc:Field Name="String" TypeName="ua:StringValue" SwitchField="NodeIdType" SwitchValue="3" />
<opc:Field Name="Guid" TypeName="ua:GUIDNodeId" SwitchField="NodeIdType" SwitchValue="4" />
<opc:Field Name="ByteString" TypeName="ua:ByteStringNodeId" SwitchField="NodeIdType" SwitchValue="5" />
<opc:Field Name="NamespaceURI" TypeName="opc:CharArray" SwitchField="NamespaceURISpecified" />
<opc:Field Name="ServerIndex" TypeName="opc:UInt32" SwitchField="ServerIndexSpecified" />
</opc:StructuredType>

<opc:OpaqueType Name="StatusCode" LengthInBits="32" ByteOrderSignificant="true">
<opc:Documentation>A 32-bit status code value.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="DiagnosticInfo">
<opc:Documentation>A recursive structure containing diagnostic information associated with a status code.</opc:Documentation>
<opc:Field Name="SymbolicIdSpecified" TypeName="opc:Bit" />
<opc:Field Name="NamespaceURISpecified" TypeName="opc:Bit" />
<opc:Field Name="LocaleSpecified" TypeName="opc:Bit" />
<opc:Field Name="LocalizedTextSpecified" TypeName="opc:Bit" />
<opc:Field Name="AdditionalInfoSpecified" TypeName="opc:Bit" />
<opc:Field Name="InnerStatusCodeSpecified" TypeName="opc:Bit" />
<opc:Field Name="InnerDiagnosticInfoSpecified" TypeName="opc:Bit" />
<opc:Field Name="Reserved1" TypeName="opc:Bit" Length="2" />
<opc:Field Name="SymbolicId" TypeName="opc:Int32" SwitchField="SymbolicIdSpecified" />
<opc:Field Name="NamespaceURI" TypeName="opc:Int32" SwitchField="NamespaceURISpecified" />
<opc:Field Name="Locale" TypeName="opc:Int32" SwitchField="LocaleSpecified" />
<opc:Field Name="LocalizedText" TypeName="opc:Int32" SwitchField="LocalizedTextSpecified" />
<opc:Field Name="AdditionalInfo" TypeName="opc:CharArray" SwitchField="AdditionalInfoSpecified" />
<opc:Field Name="InnerStatusCode" TypeName="ua:StatusCode" SwitchField="InnerStatusCodeSpecified" />
<opc:Field Name="InnerDiagnosticInfo" TypeName="ua:DiagnosticInfo" SwitchField="InnerDiagnosticInfoSpecified" />
</opc:StructuredType>

<opc:StructuredType Name="QualifiedName">
<opc:Documentation>A string qualified with a namespace index.</opc:Documentation>
<opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
<opc:Field Name="Name" TypeName="opc:CharArray" />
</opc:StructuredType>

<opc:StructuredType Name="LocalizedText">
<opc:Documentation>A string qualified with a namespace index.</opc:Documentation>
<opc:Field Name="LocaleSpecified" TypeName="opc:Bit" />
<opc:Field Name="TextSpecified" TypeName="opc:Bit" />
<opc:Field Name="Reserved1" TypeName="opc:Bit" Length="6" />
<opc:Field Name="Locale" TypeName="opc:CharArray" SwitchField="LocaleSpecified" />
<opc:Field Name="Text" TypeName="opc:CharArray" SwitchField="TextSpecified" />
</opc:StructuredType>
<opc:StructuredType Name="DataValue">
  <opc:Documentation>A value with an associated timestamp, and quality.</opc:Documentation>
  <opc:Field Name="ValueSpecified" TypeName="opc:Bit" />
  <opc:Field Name="StatusCodeSpecified" TypeName="opc:Bit" />
  <opc:Field Name="SourceTimestampSpecified" TypeName="opc:Bit" />
  <opc:Field Name="SourcePicosecondsSpecified" TypeName="opc:Bit" />
  <opc:Field Name="ServerTimestampSpecified" TypeName="opc:Bit" />
  <opc:Field Name="ServerPicosecondsSpecified" TypeName="opc:Bit" />
  <opc:Field Name="Reserved1" TypeName="opc:Bit" Length="2" />
  <opc:Field Name="Value" TypeName="ua:Variant" SwitchField="ValueSpecified" />
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" SwitchField="StatusCodeSpecified" />
  <opc:Field Name="SourceTimestamp" TypeName="opc:DateTime" SwitchField="SourceTimestampSpecified" />
  <opc:Field Name="SourcePicoseconds" TypeName="opc:UInt16" SwitchField="SourcePicosecondsSpecified" />
  <opc:Field Name="ServerTimestamp" TypeName="opc:DateTime" SwitchField="ServerTimestampSpecified" />
  <opc:Field Name="ServerPicoseconds" TypeName="opc:UInt16" SwitchField="ServerPicosecondsSpecified" />
</opc:StructuredType>

<opc:StructuredType Name="ExtensionObject">
  <opc:Documentation>A serialized object prefixed with its data type identifier.</opc:Documentation>
  <opc:Field Name="TypeIdSpecified" TypeName="opc:Bit" />
  <opc:Field Name="BinaryBody" TypeName="opc:Bit" />
  <opc:Field Name="XmlBody" TypeName="opc:Bit" />
  <opc:Field Name="Reserved1" TypeName="opc:Bit" Length="5" />
  <opc:Field Name="TypeId" TypeName="ua:ExpandedNodeId" SwitchField="TypeIdSpecified" />
  <opc:Field Name="BodyLength" TypeName="opc:Int32" />
  <opc:Field Name="Body" TypeName="opc:Byte" LengthField="BodyLength" />
</opc:StructuredType>

<opc:StructuredType Name="Variant">
  <opc:Documentation>A union of several types.</opc:Documentation>
  <opc:Field Name="VariantType" TypeName="opc:Bit" Length="6" />
  <opc:Field Name="ArrayDimensionsSpecified" TypeName="opc:Bit" Length="1" />
  <opc:Field Name="ArrayLengthSpecified" TypeName="opc:Bit" Length="1" />
  <opc:Field Name="ArrayLength" TypeName="opc:Int32" SwitchField="ArrayLengthSpecified" />
  <opc:Field Name="Boolean" TypeName="opc:Boolean" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="1" />
  <opc:Field Name="SByte" TypeName="opc:SByte" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="2" />
  <opc:Field Name="Byte" TypeName="opc:Byte" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="3" />
  <opc:Field Name="Int16" TypeName="opc:Int16" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="4" />
  <opc:Field Name="UInt16" TypeName="opc:UInt16" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="5" />
  <opc:Field Name="Int32" TypeName="opc:Int32" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="6" />
</opc:StructuredType>
<opc:StructuredType><opc:Field Name="Int64" TypeName="opc:Int64" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="8" />
<opc:Field Name="UInt64" TypeName="opc:UInt64" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="9" />
<opc:Field Name="Float" TypeName="opc:Float" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="10" />
<opc:Field Name="Double" TypeName="opc:Double" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="11" />
<opc:Field Name="String" TypeName="opc:CharArray" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="12" />
<opc:Field Name="DateTime" TypeName="opc:DateTime" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="13" />
<opc:Field Name="Guid" TypeName="opc:Guid" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="14" />
<opc:Field Name="ByteString" TypeName="opc:ByteString" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="15" />
<opc:Field Name="XmlElement" TypeName="ua:XmlElement" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="16" />
<opc:Field Name="NodeId" TypeName="ua:NodeId" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="17" />
<opc:Field Name="ExpandedNodeId" TypeName="ua:ExpandedNodeId" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="18" />
<opc:Field Name="StatusCode" TypeName="ua:StatusCode" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="19" />
<opc:Field Name="QualifiedName" TypeName="ua:QualifiedName" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="20" />
<opc:Field Name="LocalizedText" TypeName="ua:LocalizedText" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="21" />
<opc:Field Name="ExtensionObject" TypeName="ua:ExtensionObject" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="22" />
<opc:Field Name="DataValue" TypeName="ua:DataValue" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="23" />
<opc:Field Name="Variant" TypeName="ua:Variant" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="24" />
<opc:Field Name="DiagnosticInfo" TypeName="ua:DiagnosticInfo" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="25" />
<opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" SwitchField="ArrayDimensionsSpecified" />
<opc:Field Name="ArrayDimensions" TypeName="opc:Int32" LengthField="NoOfArrayDimensions" SwitchField="ArrayDimensionsSpecified" />
</opc:StructuredType>

<opc:EnumeratedType Name="NamingRuleType" LengthInBits="32">
<opc:EnumeratedValue Name="Mandatory" Value="1" />
<opc:EnumeratedValue Name="Optional" Value="2" />
<opc:EnumeratedValue Name="Constraint" Value="3" />
</opc:EnumeratedType>
<opc:OpaqueType Name="ImageBMP">
  <opc:Documentation>An image encoded in BMP format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="ImageGIF">
  <opc:Documentation>An image encoded in GIF format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="ImageJPG">
  <opc:Documentation>An image encoded in JPEG format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="ImagePNG">
  <opc:Documentation>An image encoded in PNG format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="AudioDataType">
  <opc:Documentation>An image encoded in PNG format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="BitFieldMaskDataType">
  <opc:Documentation>A mask of 32 bits that can be updated individually by using the top 32 bits as a mask.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="KeyValuePair" BaseType="ua:ExtensionObject">
  <opc:Field Name="Key" TypeName="ua:QualifiedName" />
  <opc:Field Name="Value" TypeName="ua:Variant" />
</opc:StructuredType>

<opc:StructuredType Name="AdditionalParametersType" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfParameters" TypeName="opc:Int32" />
  <opc:Field Name="Parameters" TypeName="tns:KeyValuePair" LengthField="NoOfParameters" />
</opc:StructuredType>

<opc:StructuredType Name="EphemeralKeyType" BaseType="ua:ExtensionObject">
  <opc:Field Name="PublicKey" TypeName="opc:ByteString" />
  <opc:Field Name="Signature" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="EndpointType" BaseType="ua:ExtensionObject">
  <opc:Field Name="EndpointUrl" TypeName="opc:String" />
  <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
  <opc:Field Name="SecurityPolicyUri" TypeName="opc:String" />
  <opc:Field Name="TransportProfileUri" TypeName="opc:String" />
</opc:StructuredType>
<opc:StructuredType Name="DataTypeSchemaHeader" BaseType="ua:ExtensionObject">
    <opc:Field Name="NoOfNamespaces" TypeName="opc:Int32" />
    <opc:Field Name="Namespaces" TypeName="opc:String" LengthField="NoOfNamespaces" />
    <opc:Field Name="NoOfStructureDataTypes" TypeName="opc:Int32" />
    <opc:Field Name="StructureDataTypes" TypeName="tns:StructureDescription" LengthField="NoOfStructureDataTypes" />
    <opc:Field Name="NoOfEnumDataTypes" TypeName="opc:Int32" />
    <opc:Field Name="EnumDataTypes" TypeName="tns:EnumDescription" LengthField="NoOfEnumDataTypes" />
    <opc:Field Name="NoOfSimpleDataTypes" TypeName="opc:Int32" />
    <opc:Field Name="SimpleDataTypes" TypeName="tns:SimpleTypeDescription" LengthField="NoOfSimpleDataTypes" />
</opc:StructuredType>

<opc:StructuredType Name="DataTypeDescription" BaseType="ua:ExtensionObject">
    <opc:Field Name="DataTypeId" TypeName="ua:NodeId" />
    <opc:Field Name="Name" TypeName="ua:QualifiedName" />
</opc:StructuredType>

<opc:StructuredType Name="StructureDescription" BaseType="tns:DataTypeDescription">
    <opc:Field Name="DataTypeId" TypeName="ua:NodeId" SourceType="tns:DataTypeDescription" />
    <opc:Field Name="Name" TypeName="ua:QualifiedName" SourceType="tns:DataTypeDescription" />
    <opc:Field Name="StructureDefinition" TypeName="tns:StructureDefinition" />
</opc:StructuredType>

<opc:StructuredType Name="EnumDescription" BaseType="tns:DataTypeDescription">
    <opc:Field Name="DataTypeId" TypeName="ua:NodeId" SourceType="tns:DataTypeDescription" />
    <opc:Field Name="Name" TypeName="ua:QualifiedName" SourceType="tns:DataTypeDescription" />
    <opc:Field Name="EnumDefinition" TypeName="tns:EnumDefinition" />
    <opc:Field Name="BuiltInType" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="SimpleTypeDescription" BaseType="tns:DataTypeDescription">
    <opc:Field Name="DataTypeId" TypeName="ua:NodeId" SourceType="tns:DataTypeDescription" />
    <opc:Field Name="Name" TypeName="ua:QualifiedName" SourceType="tns:DataTypeDescription" />
    <opc:Field Name="BaseDataType" TypeName="ua:NodeId" />
    <opc:Field Name="BuiltInType" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="UABinaryFileDataType" BaseType="tns:DataTypeSchemaHeader">
    <opc:Field Name="NoOfNamespaces" TypeName="opc:Int32" />
    <opc:Field Name="Namespaces" TypeName="opc:String" LengthField="NoOfNamespaces" />
    <opc:Field Name="NoOfStructureDataTypes" TypeName="opc:Int32" />
    <opc:Field Name="StructureDataTypes" TypeName="tns:StructureDescription" LengthField="NoOfStructureDataTypes" />
    <opc:Field Name="NoOfEnumDataTypes" TypeName="opc:Int32" />
    <opc:Field Name="EnumDataTypes" TypeName="tns:EnumDescription" LengthField="NoOfEnumDataTypes" />
</opc:StructuredType>
<opc:Field Name="NoOfSimpleDataTypes" TypeName="opc:Int32" />
<opc:Field Name="SimpleDataTypes" TypeName="tns:SimpleTypeDescription" LengthField="NoOfSimpleDataTypes" />
<opc:Field Name="SchemaLocation" TypeName="opc:String" />
<opc:Field Name="NoOfFileHeader" TypeName="opc:Int32" />
<opc:Field Name="FileHeader" TypeName="tns:KeyValuePair" LengthField="NoOfFileHeader" />
<opc:Field Name="Body" TypeName="ua:Variant" />
</opc:StructuredType>

<opc:EnumeratedType Name="PubSubState" LengthInBits="32">
<opc:EnumeratedValue Name="Disabled" Value="0" />
<opc:EnumeratedValue Name="Paused" Value="1" />
<opc:EnumeratedValue Name="Operational" Value="2" />
<opc:EnumeratedValue Name="Error" Value="3" />
</opc:EnumeratedType>

<opc:StructuredType Name="DataSetMetaDataType" BaseType="tns:DataTypeSchemaHeader">
<opc:Field Name="NoOfNamespaces" TypeName="opc:Int32" />
<opc:Field Name="Namespaces" TypeName="opc:String" LengthField="NoOfNamespaces" />
<opc:Field Name="NoOfStructureDataTypes" TypeName="opc:Int32" />
<opc:Field Name="StructureDataTypes" TypeName="tns:StructureDescription" LengthField="NoOfStructureDataTypes" />
<opc:Field Name="NoOfEnumDataTypes" TypeName="opc:Int32" />
<opc:Field Name="EnumDataTypes" TypeName="tns:EnumDescription" LengthField="NoOfEnumDataTypes" />
<opc:Field Name="NoOfSimpleDataTypes" TypeName="opc:Int32" />
<opc:Field Name="SimpleDataTypes" TypeName="tns:SimpleTypeDescription" LengthField="NoOfSimpleDataTypes" />
<opc:Field Name="Name" TypeName="opc:String" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" />
<opc:Field Name="NoOfFields" TypeName="opc:Int32" />
<opc:Field Name="Fields" TypeName="tns:FieldMetaData" LengthField="NoOfFields" />
<opc:Field Name="DataSetClassId" TypeName="opc:Guid" />
<opc:Field Name="ConfigurationVersion" TypeName="tns:ConfigurationVersionDataType" />
</opc:StructuredType>

<opc:StructuredType Name="FieldMetaData" BaseType="ua:ExtensionObject">
<opc:Field Name="Name" TypeName="opc:String" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" />
<opc:Field Name="FieldFlags" TypeName="tns:DataSetFieldFlags" />
<opc:Field Name="BuiltInType" TypeName="opc:Byte" />
<opc:Field Name="DataType" TypeName="ua:NodeId" />
<opc:Field Name="ValueRank" TypeName="opc:Int32" />
<opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
<opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
<opc:Field Name="MaxStringLength" TypeName="opc:UInt32" />
<opc:Field Name="DataSetFieldId" TypeName="opc:Guid" />
<opc:Field Name="NoOfProperties" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:Field Name="Properties" TypeName="tns:KeyValuePair" LengthField="NoOfProperties" />
</opc:StructuredType>

<opc:EnumeratedType Name="DataSetFieldFlags" LengthInBits="16" IsOptionSet="true">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="PromotedField" Value="1" />
</opc:EnumeratedType>

<opc:StructuredType Name="ConfigurationVersionDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="MajorVersion" TypeName="opc:UInt32" />
  <opc:Field Name="MinorVersion" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="PublishedDataSetDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Name" TypeName="opc:String" />
  <opc:Field Name="NoOfDataSetFolder" TypeName="opc:Int32" />
  <opc:Field Name="DataSetFolder" TypeName="opc:String" LengthField="NoOfDataSetFolder" />
  <opc:Field Name="DataSetMetaData" TypeName="tns:DataSetMetaDataType" />
  <opc:Field Name="NoOfExtensionFields" TypeName="opc:Int32" />
  <opc:Field Name="ExtensionFields" TypeName="tns:KeyValuePair" LengthField="NoOfExtensionFields" />
  <opc:Field Name="DataSetSource" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="PublishedDataSetSourceDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="PublishedVariableDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="PublishedVariable" TypeName="ua:NodeId" />
  <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
  <opc:Field Name="SamplingIntervalHint" TypeName="opc:Double" />
  <opc:Field Name="DeadbandType" TypeName="opc:UInt32" />
  <opc:Field Name="DeadbandValue" TypeName="opc:Double" />
  <opc:Field Name="IndexRange" TypeName="opc:String" />
  <opc:Field Name="SubstituteValue" TypeName="ua:Variant" />
  <opc:Field Name="NoOfMetaDataProperties" TypeName="opc:Int32" />
  <opc:Field Name="MetaDataProperties" TypeName="ua:QualifiedName" LengthField="NoOfMetaDataProperties" />
</opc:StructuredType>

<opc:StructuredType Name="PublishedDataItemsDataType" BaseType="tns:PublishedDataSetSourceDataType">
  <opc:Field Name="NoOfPublishedData" TypeName="opc:Int32" />
  <opc:Field Name="PublishedData" TypeName="tns:PublishedVariableDataType" LengthField="NoOfPublishedData" />
</opc:StructuredType>

<opc:StructuredType Name="PublishedEventsDataType" BaseType="tns:PublishedDataSetSourceDataType">
  <opc:Field Name="EventNotifier" TypeName="ua:NodeId" />
  <opc:Field Name="NoOfSelectedFields" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:Field Name="SelectedFields" TypeName="tns:SimpleAttributeOperand"
LengthField="NoOfSelectedFields" />
<opc:Field Name="Filter" TypeName="tns:ContentFilter" />
</opc:StructuredType>

<opc:EnumeratedType Name="DataSetFieldContentMask" LengthInBits="32" IsOptionSet="true">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="StatusCode" Value="1" />
<opc:EnumeratedValue Name="SourceTimestamp" Value="2" />
<opc:EnumeratedValue Name="ServerTimestamp" Value="4" />
<opc:EnumeratedValue Name="SourcePicoSeconds" Value="8" />
<opc:EnumeratedValue Name="ServerPicoSeconds" Value="16" />
<opc:EnumeratedValue Name="RawData" Value="32" />
</opc:EnumeratedType>

<opc:StructuredType Name="DataSetWriterDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="Name" TypeName="opc:String" />
<opc:Field Name="Enabled" TypeName="opc:Boolean" />
<opc:Field Name="DataSetWriterId" TypeName="opc:UInt16" />
<opc:Field Name="DataSetFieldContentMask" TypeName="tns:DataSetFieldContentMask" />
<opc:Field Name="KeyFrameCount" TypeName="opc:UInt32" />
<opc:Field Name="DataSetName" TypeName="opc:String" />
<opc:Field Name="NoOfDataSetWriterProperties" TypeName="opc:Int32" />
<opc:Field Name="DataSetWriterProperties" TypeName="tns:KeyValuePair" LengthField="NoOfDataSetWriterProperties" />
<opc:Field Name="TransportSettings" TypeName="ua:ExtensionObject" />
<opc:Field Name="MessageSettings" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="DataSetWriterTransportDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="DataSetWriterMessageDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="PubSubGroupDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="Name" TypeName="opc:String" />
<opc:Field Name="Enabled" TypeName="opc:Boolean" />
<opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
<opc:Field Name="SecurityGroupId" TypeName="opc:String" />
<opc:Field Name="NoOfSecurityKeyServices" TypeName="opc:Int32" />
<opc:Field Name="SecurityKeyServices" TypeName="tns:EndpointDescription" LengthField="NoOfSecurityKeyServices" />
<opc:Field Name="MaxNetworkMessageSize" TypeName="opc:UInt32" />
<opc:Field Name="NoOfGroupProperties" TypeName="opc:Int32" />
<opc:Field Name="GroupProperties" TypeName="tns:KeyValuePair" LengthField="NoOfGroupProperties" />
</opc:StructuredType>
<opc:StructuredType>

<opc:StructuredType Name="ConnectionTransportDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="NetworkAddressDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="NetworkInterface" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="NetworkAddressUrlDataType" BaseType="tns:NetworkAddressDataType">
<opc:Field Name="NetworkInterface" TypeName="opc:String" SourceType="tns:NetworkAddressDataType" />
<opc:Field Name="Url" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="ReaderGroupDataType" BaseType="tns:PubSubGroupDataType">
<opc:Field Name="Name" TypeName="opc:String" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="Enabled" TypeName="opc:Boolean" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="SecurityGroupId" TypeName="opc:String" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="NoOfSecurityKeyServices" TypeName="opc:Int32" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="SecurityKeyServices" TypeName="tns:EndpointDescription" LengthField="NoOfSecurityKeyServices" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="MaxNetworkMessageSize" TypeName="opc:UInt32" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="NoOfGroupProperties" TypeName="opc:Int32" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="GroupProperties" TypeName="tns:KeyValuePair" LengthField="NoOfGroupProperties" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="TransportSettings" TypeName="ua:ExtensionObject" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="MessageSettings" TypeName="ua:ExtensionObject" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="NoOfDataSetReaders" TypeName="opc:Int32" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="DataSetReaders" TypeName="tns:DataSetReaderDataType" LengthField="NoOfDataSetReaders" SourceType="tns:PubSubGroupDataType" />
</opc:StructuredType>

<opc:StructuredType Name="ReaderGroupTransportDataType" BaseType="tns:PubSubGroupDataType">
<opc:Field Name="Name" TypeName="opc:String" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="Enabled" TypeName="opc:Boolean" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="SecurityGroupId" TypeName="opc:String" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="MaxNetworkMessageSize" TypeName="opc:UInt32" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="NoOfGroupProperties" TypeName="opc:Int32" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="GroupProperties" TypeName="tns:KeyValuePair" LengthField="NoOfGroupProperties" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="TransportSettings" TypeName="ua:ExtensionObject" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="MessageSettings" TypeName="ua:ExtensionObject" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="NoOfDataSetReaders" TypeName="opc:Int32" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="DataSetReaders" TypeName="tns:DataSetReaderDataType" LengthField="NoOfDataSetReaders" SourceType="tns:PubSubGroupDataType" />
</opc:StructuredType>

<opc:StructuredType Name="ReaderGroupMessageDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="DataSetReaderDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="Name" TypeName="opc:String" />
<opc:Field Name="Enabled" TypeName="opc:Boolean" />
<opc:Field Name="PublisherId" TypeName="ua:Variant" />
<opc:Field Name="WriterGroupId" TypeName="opc:UInt16" />
<opc:Field Name="DataSetId" TypeName="opc:UInt16" />
<opc:Field Name="DataSetMetaData" TypeName="tns:DataSetMetaDataType" />
<opc:Field Name="DataSetFieldContentMask" TypeName="tns:DataSetFieldContentMask" />
</opc:StructuredType>
<opc:Field Name="MessageReceiveTimeout" TypeName="opc:Double" />
<opc:Field Name="KeyFrameCount" TypeName="opc:UInt32" />
<opc:Field Name="HeaderLayoutUri" TypeName="opc:String" />
<opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
<opc:Field Name="SecurityGroupId" TypeName="opc:String" />
<opc:Field Name="NoOfSecurityKeyServices" TypeName="opc:Int32" />
<opc:Field Name="SecurityKeyServices" TypeName="tns:EndpointDescription"
LengthField="NoOfSecurityKeyServices" />
<opc:Field Name="NoOfDataSetReaderProperties" TypeName="opc:Int32" />
<opc:Field Name="DataSetReaderProperties" TypeName="tns:KeyValuePair"
LengthField="NoOfDataSetReaderProperties" />
<opc:Field Name="TransportSettings" TypeName="ua:ExtensionObject" />
<opc:Field Name="MessageSettings" TypeName="ua:ExtensionObject" />
<opc:Field Name="SubscribedDataSet" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="DataSetReaderTransportDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="DataSetReaderMessageDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="SubscribedDataSetDataType" BaseType="tns:SubscribedDataSetDataType">
<opc:Field Name="NoOfTargetVariables" TypeName="opc:Int32" />
<opc:Field Name="TargetVariables" TypeName="tns:FieldTargetDataType"
LengthField="NoOfTargetVariables" />
</opc:StructuredType>

<opc:StructuredType Name="FieldTargetDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="DataSetFieldId" TypeName="opc:Guid" />
<opc:Field Name="ReceiverIndexRange" TypeName="opc:String" />
<opc:Field Name="TargetNodeId" TypeName="ua:NodeId" />
<opc:Field Name="AttributeId" TypeName="opc:UInt32" />
<opc:Field Name="WriteIndexRange" TypeName="opc:String" />
<opc:Field Name="OverrideValueHandling" TypeName="tns:OverrideValueHandling" />
<opc:Field Name="OverrideValue" TypeName="ua:Variant" />
</opc:StructuredType>

<opc:EnumeratedType Name="OverrideValueHandling" LengthInBits="32">
<opc:EnumeratedValue Name="Disabled" Value="0" />
<opc:EnumeratedValue Name="LastUsableValue" Value="1" />
<opc:EnumeratedValue Name="OverrideValue" Value="2" />
</opc:EnumeratedType>

<opc:StructuredType Name="SubscribedDataSetMirrorDataType" BaseType="tns:SubscribedDataSetDataType">
</opc:StructuredType>
<opc:Field Name="ParentNodeName" TypeName="opc:String" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfRolePermissions" />
</opc:StructuredType>

<opc:StructuredType Name="PubSubConfigurationDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="NoOfPublishedDataSets" TypeName="opc:Int32" />
<opc:Field Name="PublishedDataSets" TypeName="tns:PublishedDataSetDataType"
LengthField="NoOfPublishedDataSets" />
<opc:Field Name="NoOfConnections" TypeName="opc:Int32" />
<opc:Field Name="Connections" TypeName="tns:PubSubConnectionDataType"
LengthField="NoOfConnections" />
<opc:Field Name="Enabled" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:EnumeratedType Name="DataSetOrderingType" LengthInBits="32">
<opc:EnumeratedValue Name="Undefined" Value="0" />
<opc:EnumeratedValue Name="AscendingWriterId" Value="1" />
<opc:EnumeratedValue Name="AscendingWriterIdSingle" Value="2" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="UadpNetworkMessageContentMask" LengthInBits="32" IsOptionSet="true">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="PublisherId" Value="1" />
<opc:EnumeratedValue Name="GroupHeader" Value="2" />
<opc:EnumeratedValue Name="WriterGroupId" Value="4" />
<opc:EnumeratedValue Name="GroupVersion" Value="8" />
<opc:EnumeratedValue Name="NetworkMessageNumber" Value="16" />
<opc:EnumeratedValue Name="SequenceNumber" Value="32" />
<opc:EnumeratedValue Name="PayloadHeader" Value="64" />
<opc:EnumeratedValue Name="Timestamp" Value="128" />
<opc:EnumeratedValue Name="PicoSeconds" Value="256" />
<opc:EnumeratedValue Name="DataSetClassId" Value="512" />
<opc:EnumeratedValue Name="PromotedFields" Value="1024" />
</opc:EnumeratedType>

<opc:StructuredType Name="UadpWriterGroupMessageDataType"
BaseType="tns:WriterGroupMessageDataType">
<opc:Field Name="GroupVersion" TypeName="opc:UInt32" />
<opc:Field Name="DataSetOrdering" TypeName="tns:DataSetOrderingType" />
<opc:Field Name="NetworkMessageContentMask" TypeName="tns:UadpNetworkMessageContentMask" />
<opc:Field Name="SamplingOffset" TypeName="opc:Double" />
<opc:Field Name="NoOfPublishingOffset" TypeName="opc:Int32" />
<opc:Field Name="PublishingOffset" TypeName="opc:Double"
LengthField="NoOfPublishingOffset" />
</opc:StructuredType>

<opc:EnumeratedType Name="UadpDataSetMessageContentMask" LengthInBits="32" IsOptionSet="true">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="PublisherId" Value="1" />
<opc:EnumeratedValue Name="GroupHeader" Value="2" />
<opc:EnumeratedValue Name="WriterGroupId" Value="4" />
<opc:EnumeratedValue Name="GroupVersion" Value="8" />
<opc:EnumeratedValue Name="NetworkMessageNumber" Value="16" />
<opc:EnumeratedValue Name="SequenceNumber" Value="32" />
<opc:EnumeratedValue Name="PayloadHeader" Value="64" />
<opc:EnumeratedValue Name="Timestamp" Value="128" />
<opc:EnumeratedValue Name="PicoSeconds" Value="256" />
<opc:EnumeratedValue Name="DataSetClassId" Value="512" />
<opc:EnumeratedValue Name="PromotedFields" Value="1024" />
</opc:EnumeratedType>
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="Timestamp" Value="1" />
<opc:EnumeratedValue Name="PicoSeconds" Value="2" />
<opc:EnumeratedValue Name="Status" Value="4" />
<opc:EnumeratedValue Name="MajorVersion" Value="8" />
<opc:EnumeratedValue Name="MinorVersion" Value="16" />
<opc:EnumeratedValue Name="SequenceNumber" Value="32" />
</opc:EnumeratedType>

<opc:StructuredType Name="UadpDataSetWriterMessageDataType"
    BaseType="tns:DataSetWriterMessageDataType">
    <opc:Field Name="DataSetMessageContentMask" TypeName="tns:UadpDataSetMessageContentMask" />
    <opc:Field Name="ConfiguredSize" TypeName="opc:UInt16" />
    <opc:Field Name="NetworkMessageNumber" TypeName="opc:UInt16" />
    <opc:Field Name="DataSetOffset" TypeName="opc:UInt16" />
</opc:StructuredType>

<opc:StructuredType Name="UadpDataSetReaderMessageDataType"
    BaseType="tns:DataSetReaderMessageDataType">
    <opc:Field Name="GroupVersion" TypeName="opc:UInt32" />
    <opc:Field Name="NetworkMessageNumber" TypeName="opc:UInt16" />
    <opc:Field Name="DataSetOffset" TypeName="opc:UInt16" />
    <opc:Field Name="DataSetClassId" TypeName="opc:Guid" />
    <opc:Field Name="NetworkMessageContentMask" TypeName="tns:UadpNetworkMessageContentMask" />
    <opc:Field Name="DataSetMessageContentMask" TypeName="tns:UadpDataSetMessageContentMask" />
    <opc:Field Name="PublishingInterval" TypeName="opc:Double" />
    <opc:Field Name="ReceiveOffset" TypeName="opc:Double" />
    <opc:Field Name="ProcessingOffset" TypeName="opc:Double" />
</opc:StructuredType>

<opc:EnumeratedType Name="JsonNetworkMessageContentMask" LengthInBits="32" IsOptionSet="true">
    <opc:EnumeratedValue Name="None" Value="0" />
    <opc:EnumeratedValue Name="NetworkMessageHeader" Value="1" />
    <opc:EnumeratedValue Name="DataSetMessageHeader" Value="2" />
    <opc:EnumeratedValue Name="SingleDataSetMessage" Value="4" />
    <opc:EnumeratedValue Name="PublisherId" Value="8" />
    <opc:EnumeratedValue Name="DataSetClassId" Value="16" />
    <opc:EnumeratedValue Name="ReplyTo" Value="32" />
</opc:EnumeratedType>

<opc:StructuredType Name="JsonWriterGroupMessageDataType"
    BaseType="tns:WriterGroupMessageDataType">
    <opc:Field Name="NetworkMessageContentMask" TypeName="tns:JsonNetworkMessageContentMask" />
</opc:StructuredType>

<opc:EnumeratedType Name="JsonDataSetMessageContentMask" LengthInBits="32" IsOptionSet="true">
    <opc:EnumeratedValue Name="None" Value="0" />
    <opc:EnumeratedValue Name="DataSetWriterId" Value="1" />
<opc:EnumeratedValue Name="MetaDataVersion" Value="2"/>
<opc:EnumeratedValue Name="SequenceNumber" Value="4"/>
<opc:EnumeratedValue Name="Timestamp" Value="8"/>
<opc:EnumeratedValue Name="Status" Value="16"/>
</opc:EnumeratedType>

<opc:StructuredType Name="JsonDataSetWriterMessageDataType"
BaseType="tns:DataSetWriterMessageDataType">
  <opc:Field Name="DataSetMessageContentMask" TypeName="tns:JsonDataSetMessageContentMask"/>
</opc:StructuredType>

<opc:StructuredType Name="JsonDataSetReaderMessageDataType"
BaseType="tns:DataSetReaderMessageDataType">
  <opc:Field Name="NetworkMessageContentMask" TypeName="tns:JsonNetworkMessageContentMask"/>
  <opc:Field Name="DataSetMessageContentMask" TypeName="tns:JsonDataSetMessageContentMask"/>
</opc:StructuredType>

<opc:StructuredType Name="DatagramConnectionTransportDataType"
BaseType="tns:ConnectionTransportDataType">
  <opc:Field Name="DiscoveryAddress" TypeName="ua:ExtensionObject"/>
</opc:StructuredType>

<opc:StructuredType Name="DatagramWriterGroupTransportDataType"
BaseType="tns:WriterGroupTransportDataType">
  <opc:Field Name="MessageRepeatCount" TypeName="opc:Byte"/>
  <opc:Field Name="MessageRepeatDelay" TypeName="opc:Double"/>
</opc:StructuredType>

<opc:StructuredType Name="BrokerConnectionTransportDataType"
BaseType="tns:ConnectionTransportDataType">
  <opc:Field Name="ResourceUri" TypeName="opc:String"/>
  <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String"/>
</opc:StructuredType>

<opc:EnumeratedType Name="BrokerTransportQualityOfService" LengthInBits="32">
  <opc:EnumeratedValue Name="NotSpecified" Value="0"/>
  <opc:EnumeratedValue Name="BestEffort" Value="1"/>
  <opc:EnumeratedValue Name="AtLeastOnce" Value="2"/>
  <opc:EnumeratedValue Name="AtMostOnce" Value="3"/>
  <opc:EnumeratedValue Name="ExactlyOnce" Value="4"/>
</opc:EnumeratedType>

<opc:StructuredType Name="BrokerWriterGroupTransportDataType"
BaseType="tns:WriterGroupTransportDataType">
  <opc:Field Name="QueueName" TypeName="opc:String"/>
  <opc:Field Name="ResourceUri" TypeName="opc:String"/>
  <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String"/>
  <opc:Field Name="RequestedDeliveryGuarantee" TypeName="tns:BrokerTransportQualityOfService"/>
</opc:StructuredType>
<opc:StructuredType>

<opc:StructuredType Name="BrokerDataSetWriterTransportDataType"
BaseType="tns:DataSetWriterTransportDataType">
  <opc:Field Name="QueueName" TypeName="opc:String" />
  <opc:Field Name="ResourceUri" TypeName="opc:String" />
  <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
  <opc:Field Name="RequestedDeliveryGuarantee" TypeName="tns:BrokerTransportQualityOfService" />
  <opc:Field Name="MetaDataQueueName" TypeName="opc:String" />
  <opc:Field Name="MetaDataUpdateTime" TypeName="opc:Double" />
</opc:StructuredType>

<opc:StructuredType Name="BrokerDataSetReaderTransportDataType"
BaseType="tns:DataSetReaderTransportDataType">
  <opc:Field Name="QueueName" TypeName="opc:String" />
  <opc:Field Name="ResourceUri" TypeName="opc:String" />
  <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
  <opc:Field Name="RequestedDeliveryGuarantee" TypeName="tns:BrokerTransportQualityOfService" />
  <opc:Field Name="MetaDataQueueName" TypeName="opc:String" />
</opc:StructuredType>

<opc:EnumeratedType Name="DiagnosticsLevel" LengthInBits="32">
  <opc:EnumeratedValue Name="Basic" Value="0" />
  <opc:EnumeratedValue Name="Advanced" Value="1" />
  <opc:EnumeratedValue Name="Info" Value="2" />
  <opc:EnumeratedValue Name="Log" Value="3" />
  <opc:EnumeratedValue Name="Debug" Value="4" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="PubSubDiagnosticsCounterClassification" LengthInBits="32">
  <opc:EnumeratedValue Name="Information" Value="0" />
  <opc:EnumeratedValue Name="Error" Value="1" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="IdType" LengthInBits="32">
  <opc:Documentation>The type of identifier used in a node id.</opc:Documentation>
  <opc:EnumeratedValue Name="Numeric" Value="0" />
  <opc:EnumeratedValue Name="String" Value="1" />
  <opc:EnumeratedValue Name="Guid" Value="2" />
  <opc:EnumeratedValue Name="Opaque" Value="3" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="NodeClass" LengthInBits="32">
  <opc:Documentation>A mask specifying the class of the node.</opc:Documentation>
  <opc:EnumeratedValue Name="Unspecified" Value="0" />
  <opc:EnumeratedValue Name="Object" Value="1" />
  <opc:EnumeratedValue Name="Variable" Value="2" />
  <opc:EnumeratedValue Name="Method" Value="4" />
</opc:EnumeratedType>
<opc:EnumeratedValue Name="NonatomicRead" Value="256" />
<opc:EnumeratedValue Name="NonatomicWrite" Value="512" />
<opc:EnumeratedValue Name="WriteFullArrayOnly" Value="1024" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="EventNotifierType" LengthInBits="8" IsOptionSet="true">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="SubscribeToEvents" Value="1" />
<opc:EnumeratedValue Name="HistoryRead" Value="4" />
<opc:EnumeratedValue Name="HistoryWrite" Value="8" />
</opc:EnumeratedType>

<opc:StructuredType Name="RolePermissionType" BaseType="ua:ExtensionObject">
<opc:Field Name="RoleId" TypeName="ua:NodeId" />
<opc:Field Name="Permissions" TypeName="tns:PermissionType" />
</opc:StructuredType>

<opc:EnumeratedType Name="StructureType" LengthInBits="32">
<opc:EnumeratedValue Name="Structure" Value="0" />
<opc:EnumeratedValue Name="StructureWithOptionalFields" Value="1" />
<opc:EnumeratedValue Name="Union" Value="2" />
</opc:EnumeratedType>

<opc:StructuredType Name="StructureField" BaseType="ua:ExtensionObject">
<opc:Field Name="Name" TypeName="opc:String" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" />
<opc:Field Name="DataType" TypeName="ua:NodeId" />
<opc:Field Name="ValueRank" TypeName="opc:Int32" />
<opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
<opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
<opc:Field Name="MaxStringLength" TypeName="opc:UInt32" />
<opc:Field Name="IsOptional" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="StructureDefinition" BaseType="tns:DataTypeDefinition">
<opc:Field Name="DefaultEncodingId" TypeName="ua:NodeId" />
<opc:Field Name="BaseDataType" TypeName="ua:NodeId" />
<opc:Field Name="StructureType" TypeName="tns:StructureType" />
<opc:Field Name="NoOfFields" TypeName="opc:Int32" />
<opc:Field Name="Fields" TypeName="tns:StructureField" LengthField="NoOfFields" />
</opc:StructuredType>

<opc:StructuredType Name="EnumDefinition" BaseType="tns:DataTypeDefinition">
<opc:Field Name="NoOfFields" TypeName="opc:Int32" />
<opc:Field Name="Fields" TypeName="tns:EnumField" LengthField="NoOfFields" />
</opc:StructuredType>

<opc:StructuredType Name="Node" BaseType="ua:ExtensionObject"/>
<opc:Documentation>Specifies the attributes which belong to all nodes.</opc:Documentation>
<opc:Field Name="NodeId" TypeName="ua:NodeId" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
<opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
</opc:StructuredType>

<opc:StructuredType Name="InstanceNode" BaseType="tns:Node">
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
<opc:Field Name="NoOfUserRolePermissions" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" />
<opc:Field Name="NoOfReferences" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
</opc:StructuredType>

<opc:StructuredType Name="TypeNode" BaseType="tns:Node">
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" />
<opc:Field Name="NoOf UserRolePermissions" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
<opc:Field Name="AccessRestrictions" />
<opc:Field Name="NoOfReferences" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
</opc:StructuredType>
LengthField="NoOfRolePermissions" />
<opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType"
LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
</StructuredType>

<opc:StructuredType Name="ObjectNode" BaseType="tns:InstanceNode">
<opc:Documentation>Specifies the attributes which belong to object nodes.</opc:Documentation>
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedString" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedString" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
<opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
<opc:Field Name="EventNotifier" TypeName="opc:Byte" />
</StructuredType>

<opc:StructuredType Name="ObjectTypeNode" BaseType="tns:TypeNode">
<opc:Documentation>Specifies the attributes which belong to object type nodes.</opc:Documentation>
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedString" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedString" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
<opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
<opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="VariableNode" BaseType="tns:InstanceNode">
<opc:Documentation>Specifies the attributes which belong to variable nodes.</opc:Documentation>
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
<opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
<opc:Field Name="Value" TypeName="ua:Variant" />
<opc:Field Name="ValueRank" TypeName="opc:Int32" />
<opc:Field Name="ArrayDimensions" TypeName="opc:Int32" LengthField="NoOfArrayDimensions" />
<opc:Field Name="AccessLevel" TypeName="opc:Byte" />
<opc:Field Name="UserAccessLevel" TypeName="opc:Int32" />
<opc:Field Name="MinimumSamplingInterval" TypeName="opc:Double" />
<opc:Field Name="Historizing" TypeName="opc:Boolean" />
<opc:Field Name="AccessLevelEx" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="VariableTypeNode" BaseType="tns:TypeNode">
<opc:Documentation>Specifies the attributes which belong to variable type nodes.</opc:Documentation>
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
<opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
<opc:Field Name="ArrayDimensions" TypeName="opc:Int32" LengthField="NoOfArrayDimensions" />
<opc:Field Name="AccessLevel" TypeName="opc:Byte" />
<opc:Field Name="UserAccessLevel" TypeName="opc:Int32" />
<opc:Field Name="MinimumSamplingInterval" TypeName="opc:Double" />
<opc:Field Name="Historizing" TypeName="opc:Boolean" />
<opc:Field Name="AccessLevelEx" TypeName="opc:UInt32" />
</opc:StructuredType>
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
<opc:Field Name="Value" TypeName="ua:Variant" />
<opc:Field Name="DataType" TypeName="ua:NodeId" />
<opc:Field Name="ValueRank" TypeName="opc:Int32" />
<opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
<opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
<opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="ReferenceTypeNode" BaseType="tns:TypeNode">
<opc:Documentation>Specifies the attributes which belong to reference type nodes.</opc:Documentation>
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
<opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
<opc:Field Name="Symmetric" TypeName="opc:Boolean" />
<opc:Field Name="InverseName" TypeName="ua:LocalizedText" />
</opc:StructuredType>

<opc:StructuredType Name="MethodNode" BaseType="tns:InstanceNode">
<opc:Documentation>Specifies the attributes which belong to method nodes.</opc:Documentation>
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
<opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
<opc:Field Name="Symmetric" TypeName="opc:Boolean" />
<opc:Field Name="InverseName" TypeName="ua:LocalizedText" />
</opc:StructuredType>
LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
<opc:Field Name="Executable" TypeName="opc:Boolean" />
<opc:Field Name="UserExecutable" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="ViewNode" BaseType="tns:InstanceNode">
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
<opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
<opc:Field Name="ContainsNoLoops" TypeName="opc:Boolean" />
<opc:Field Name="EventNotifier" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="DataTypeNode" BaseType="tns:TypeNode">
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
<opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
<opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
<opc:Field Name="DataTypeDefinition" TypeName="ua:ExtensionObject" />

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<opc:StructuredType>

<opc:StructuredType Name="ReferenceNode" BaseType="ua:ExtensionObject">
<opc:Documentation>Specifies a reference which belongs to a node.</opc:Documentation>
<opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
<opc:Field Name="IsInverse" TypeName="opc:Boolean" />
<opc:Field Name="TargetId" TypeName="ua:ExpandedNodeId" />
</opc:StructuredType>

<opc:StructuredType Name="Argument" BaseType="ua:ExtensionObject">
<opc:Documentation>An argument for a method.</opc:Documentation>
<opc:Field Name="Name" TypeName="opc:String" />
<opc:Field Name="DataType" TypeName="ua:NodeId" />
<opc:Field Name="ValueRank" TypeName="opc:Int32" />
<opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
<opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" />
</opc:StructuredType>

<opc:StructuredType Name="EnumValueType" BaseType="ua:ExtensionObject">
<opc:Documentation>A mapping between a value of an enumerated type and a name and description.</opc:Documentation>
<opc:Field Name="Value" TypeName="opc:Int64" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" />
</opc:StructuredType>

<opc:StructuredType Name="EnumField" BaseType="tns:EnumValueType">
<opc:Field Name="Value" TypeName="opc:Int64" SourceType="tns:EnumValueType" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:EnumValueType" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:EnumValueType" />
<opc:Field Name="Name" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="OptionSet" BaseType="ua:ExtensionObject">
<opc:Documentation>This abstract Structured DataType is the base DataType for all DataTypes representing a bit mask.</opc:Documentation>
<opc:Field Name="Value" TypeName="opc:ByteString" />
<opc:Field Name="ValidBits" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="Union" BaseType="ua:ExtensionObject">
<opc:Documentation>This abstract dataType is the base dataType for all union DataTypes.</opc:Documentation>
</opc:StructuredType>

<opc:OpaqueType Name="NormalizedString">
<opc:Documentation>A string normalized based on the rules in the unicode specification.</opc:Documentation>
</opc:OpaqueType>
<opc:OpaqueType Name="DecimalString">
    <opc:Documentation>An arbitraty numeric value.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="DurationString">
    <opc:Documentation>A period of time formatted as defined in ISO 8601-2000.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="TimeString">
    <opc:Documentation>A time formatted as defined in ISO 8601-2000.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="DateString">
    <opc:Documentation>A date formatted as defined in ISO 8601-2000.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="Duration">
    <opc:Documentation>A period of time measured in milliseconds.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="UtcTime">
    <opc:Documentation>A date/time value specified in Universal Coordinated Time (UTC).</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="LocaleId">
    <opc:Documentation>An identifier for a user locale.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="TimeZoneDataType" BaseType="ua:ExtensionObject">
    <opc:Field Name="Offset" TypeName="opc:Int16" />
    <opc:Field Name="DaylightSavingInOffset" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:OpaqueType Name="Index">
    <opc:Documentation>This primitive data type is a UInt32 that identifies an element of an array.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="IntegerId">
    <opc:Documentation>A numeric identifier for an object.</opc:Documentation>
</opc:OpaqueType>

<opc:EnumeratedType Name="ApplicationType" LengthInBits="32">
    <opc:Documentation>The types of applications.</opc:Documentation>
    <opc:EnumeratedValue Name="Server" Value="0" />
    <opc:EnumeratedValue Name="Client" Value="1" />
</opc:EnumeratedType>
<opc:EnumeratedValue Name="ClientAndServer" Value="2" />
<opc:EnumeratedValue Name="DiscoveryServer" Value="3" />
</opc:EnumeratedType>

<opc:StructuredType Name="ApplicationDescription" BaseType="ua:ExtensionObject">
<opc:Documentation>Describes an application and how to find it.</opc:Documentation>
<opc:Field Name="ApplicationUri" TypeName="opc:String" />
<opc:Field Name="ProductUri" TypeName="opc:String" />
<opc:Field Name="ApplicationName" TypeName="ua:LocalizedText" />
<opc:Field Name="ApplicationType" TypeName="tns:ApplicationType" />
<opc:Field Name="GatewayServerUri" TypeName="opc:String" />
<opc:Field Name="DiscoveryProfileUri" TypeName="opc:String" />
<opc:Field Name="NoOfDiscoveryUrls" TypeName="opc:Int32" />
<opc:Field Name="DiscoveryUrls" TypeName="opc:String" LengthField="NoOfDiscoveryUrls" />
</opc:StructuredType>

<opc:StructuredType Name="RequestHeader" BaseType="ua:ExtensionObject">
<opc:Documentation>The header passed with every server request.</opc:Documentation>
<opc:Field Name="AuthenticationToken" TypeName="ua:NodeId" />
<opc:Field Name="Timestamp" TypeName="opc:DateTime" />
<opc:Field Name="RequestHandle" TypeName="opc:UInt32" />
<opc:Field Name="ReturnDiagnostics" TypeName="opc:UInt32" />
<opc:Field Name="AuditEntryId" TypeName="opc:String" />
<opc:Field Name="TimeoutHint" TypeName="opc:UInt32" />
<opc:Field Name="AdditionalHeader" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="ResponseHeader" BaseType="ua:ExtensionObject">
<opc:Documentation>The header passed with every server response.</opc:Documentation>
<opc:Field Name="Timestamp" TypeName="opc:DateTime" />
<opc:Field Name="RequestHandle" TypeName="opc:UInt32" />
<opc:Field Name="ServiceResult" TypeName="ua:StatusCode" />
<opc:Field Name="ServiceDiagnostics" TypeName="ua:DiagnosticInfo" />
<opc:Field Name="NoOfStringTable" TypeName="opc:Int32" />
<opc:Field Name="StringTable" TypeName="opc:String" LengthField="NoOfStringTable" />
<opc:Field Name="AdditionalHeader" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:OpaqueType Name="VersionTime" />
</opc:OpaqueType>

<opc:StructuredType Name="ServiceFault" BaseType="ua:ExtensionObject">
<opc:Documentation>The response returned by all services when there is a service level error.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:StructuredType Name="SessionlessInvokeRequestType" BaseType="ua:ExtensionObject"
<opc:Field Name="NoOfUrisVersion" TypeName="opc:Int32" />
<opc:Field Name="UrisVersion" TypeName="opc:UInt32" LengthField="NoOfUrisVersion" />
<opc:Field Name="NoOfNamespaceUris" TypeName="opc:Int32" />
<opc:Field Name="NamespaceUris" TypeName="opc:String" LengthField="NoOfNamespaceUris" />
<opc:Field Name="NoOfServerUris" TypeName="opc:Int32" />
<opc:Field Name="ServerUris" TypeName="opc:String" LengthField="NoOfServerUris" />
<opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
<opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
<opc:Field Name="ServiceId" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="SessionlessInvokeResponseResponseType" BaseType="ua:ExtensionObject">
<opc:Field Name="NoOfNamespaceUris" TypeName="opc:Int32" />
<opc:Field Name="NamespaceUris" TypeName="opc:String" LengthField="NoOfNamespaceUris" />
<opc:Field Name="NoOfServerUris" TypeName="opc:Int32" />
<opc:Field Name="ServerUris" TypeName="opc:String" LengthField="NoOfServerUris" />
<opc:Field Name="ServiceId" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Finds the servers known to the discovery server.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="EndpointUrl" TypeName="opc:String" />
<opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
<opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
<opc:Field Name="NoOfServerUris" TypeName="opc:Int32" />
<opc:Field Name="ServerUris" TypeName="opc:String" LengthField="NoOfServerUris" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Finds the servers known to the discovery server.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfServers" TypeName="opc:Int32" />
<opc:Field Name="Servers" TypeName="tns:ApplicationDescription" LengthField="NoOfServers" />
</opc:StructuredType>

<opc:StructuredType Name="ServerOnNetwork" BaseType="ua:ExtensionObject">
<opc:Field Name="RecordId" TypeName="opc:UInt32" />
<opc:Field Name="ServerName" TypeName="opc:String" />
<opc:Field Name="DiscoveryUrl" TypeName="opc:String" />
<opc:Field Name="NoOfServerCapabilities" TypeName="opc:Int32" />
<opc:Field Name="ServerCapabilities" TypeName="opc:String" LengthField="NoOfServerCapabilities" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersOnNetworkRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="StartingRecordId" TypeName="opc:UInt32" />
<opc:Field Name="MaxRecordsToReturn" TypeName="opc:UInt32" />
</opc:StructuredType>
<opc:Field Name="NoOfServerCapabilityFilter" TypeName="opc:Int32" />
<opc:Field Name="ServerCapabilityFilter" TypeName="opc:String" LengthField="NoOfServerCapabilityFilter"/>
</opc:StructuredType>

<opc:StructuredType Name="FindServersOnNetworkResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="LastCounterResetTime" TypeName="opc:DateTime" />
<opc:Field Name="NoOfServers" TypeName="opc:Int32" />
<opc:Field Name="Servers" TypeName="tns:ServerOnNetwork" LengthField="NoOfServers" />
</opc:StructuredType>

<opc:OpaqueType Name="ApplicationInstanceCertificate">
<opc:Documentation>A certificate for an instance of an application.</opc:Documentation>
</opc:OpaqueType>

<opc:EnumeratedType Name="MessageSecurityMode" LengthInBits="32">
<opc:Documentation>The type of security to use on a message.</opc:Documentation>
<opc:EnumeratedValue Name="Invalid" Value="0"/>
<opc:EnumeratedValue Name="None" Value="1"/>
<opc:EnumeratedValue Name="Sign" Value="2"/>
<opc:EnumeratedValue Name="SignAndEncrypt" Value="3"/>
</opc:EnumeratedType>

<opc:EnumeratedType Name="UserTokenType" LengthInBits="32">
<opc:Documentation>The possible user token types.</opc:Documentation>
<opc:EnumeratedValue Name="Anonymous" Value="0"/>
<opc:EnumeratedValue Name="UserName" Value="1"/>
<opc:EnumeratedValue Name="Certificate" Value="2"/>
<opc:EnumeratedValue Name="IssuedToken" Value="3"/>
</opc:EnumeratedType>

<opc:StructuredType Name="UserTokenPolicy" BaseType="ua:ExtensionObject">
<opc:Documentation>Describes a user token that can be used with a server.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String"/>
<opc:Field Name="TokenType" TypeName="tns:UserTokenType"/>
<opc:Field Name="IssuedTokenType" TypeName="opc:String"/>
<opc:Field Name="IssuerEndpointUrl" TypeName="opc:String"/>
<opc:Field Name="SecurityPolicyUri" TypeName="opc:String"/>
</opc:StructuredType>

<opc:StructuredType Name="EndpointDescription" BaseType="ua:ExtensionObject">
<opc:Documentation>The description of an endpoint that can be used to access a server.</opc:Documentation>
<opc:Field Name="EndpointUrl" TypeName="opc:String"/>
<opc:Field Name="Server" TypeName="tns:ApplicationDescription"/>
<opc:Field Name="ServerCertificate" TypeName="opc:ByteString"/>
<opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode"/>
<opc:Field Name="SecurityPolicyUri" TypeName="opc:String"/>
</opc:StructuredType>
<opc:Field Name="NoOfUserIdentityTokens" TypeName="opc:Int32" />
<opc:Field Name="UserIdentityTokens" TypeName="tns:UserTokenPolicy"
LengthField="NoOfUserIdentityTokens" />
<opc:Field Name="TransportProfileUri" TypeName="opc:String" />
<opc:Field Name="SecurityLevel" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="GetEndpointsRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Gets the endpoints used by the server.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="EndpointUrl" TypeName="opc:String" />
<opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
<opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
<opc:Field Name="NoOfProfileUris" TypeName="opc:Int32" />
<opc:Field Name="ProfileUris" TypeName="opc:String" LengthField="NoOfProfileUris" />
</opc:StructuredType>

<opc:StructuredType Name="GetEndpointsResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Gets the endpoints used by the server.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfEndpoints" TypeName="opc:Int32" />
<opc:Field Name="Endpoints" TypeName="tns:EndpointDescription" LengthField="NoOfEndpoints" />
</opc:StructuredType>

<opc:StructuredType Name="RegisteredServer" BaseType="ua:ExtensionObject">
<opc:Documentation>The information required to register a server with a discovery server.</opc:Documentation>
<opc:Field Name="ServerUri" TypeName="opc:String" />
<opc:Field Name="ProductUri" TypeName="opc:String" />
<opc:Field Name="NoOfServerNames" TypeName="opc:Int32" />
<opc:Field Name="ServerNames" TypeName="ua:LocalizedText" LengthField="NoOfServerNames" />
<opc:Field Name="ServerType" TypeName="tns:ApplicationType" />
<opc:Field Name="GatewayServerUri" TypeName="opc:String" />
<opc:Field Name="NoOfDiscoveryUrls" TypeName="opc:Int32" />
<opc:Field Name="DiscoveryUrls" TypeName="opc:String" LengthField="NoOfDiscoveryUrls" />
<opc:Field Name="SemaphoreFilePath" TypeName="opc:String" />
<opc:Field Name="IsOnline" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterServerRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Registers a server with the discovery server.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="Server" TypeName="tns:RegisteredServer" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterServerResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Registers a server with the discovery server.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>
<opc:StructuredType Name="DiscoveryConfiguration" BaseType="ua:ExtensionObject">
  <opc:Documentation>A base type for discovery configuration information.</opc:Documentation>
</opc:StructuredType>

<opc:StructuredType Name="MdnsDiscoveryConfiguration" BaseType="tns:DiscoveryConfiguration">
  <opc:Documentation>The discovery information needed for mDNS registration.</opc:Documentation>
  <opc:Field Name="MdnsServerName" TypeName="opc:String" />
  <opc:Field Name="NoOfServerCapabilities" TypeName="opc:Int32" />
  <opc:Field Name="ServerCapabilities" TypeName="opc:String" LengthField="NoOfServerCapabilities" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterServer2Request" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="Server" TypeName="tns:RegisteredServer" />
  <opc:Field Name="NoOfDiscoveryConfiguration" TypeName="opc:Int32" />
  <opc:Field Name="DiscoveryConfiguration" TypeName="ua:ExtensionObject" LengthField="NoOfDiscoveryConfiguration" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterServer2Response" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfConfigurationResults" TypeName="opc:Int32" />
  <opc:Field Name="ConfigurationResults" TypeName="ua:StatusCode" LengthField="NoOfConfigurationResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:EnumeratedType Name="SecurityTokenRequestType" LengthInBits="32">
  <opc:Documentation>Indicates whether a token if being created or renewed.</opc:Documentation>
  <opc:EnumeratedValue Name="Issue" Value="0" />
  <opc:EnumeratedValue Name="Renew" Value="1" />
</opc:EnumeratedType>

<opc:StructuredType Name="ChannelSecurityToken" BaseType="ua:ExtensionObject">
  <opc:Documentation>The token that identifies a set of keys for an active secure channel.</opc:Documentation>
  <opc:Field Name="ChannelId" TypeName="opc:UInt32" />
  <opc:Field Name="TokenId" TypeName="opc:UInt32" />
  <opc:Field Name="CreatedAt" TypeName="opc:DateTime" />
  <opc:Field Name="RevisedLifetime" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="OpenSecureChannelRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Creates a secure channel with a server.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="ClientProtocolVersion" TypeName="opc:UInt32" />
  <opc:Field Name="RequestType" TypeName="tns:SecurityTokenRequestType" />
</opc:StructuredType>
<opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
<opc:Field Name="ClientNonce" TypeName="opc:ByteString" />
<opc:Field Name="RequestedLifetime" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="OpenSecureChannelResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Creates a secure channel with a server.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="ServerProtocolVersion" TypeName="opc:UInt32" />
<opc:Field Name="SecurityToken" TypeName="tns:ChannelSecurityToken" />
<opc:Field Name="ServerNonce" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="CloseSecureChannelRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Closes a secure channel.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
</opc:StructuredType>

<opc:StructuredType Name="CloseSecureChannelResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Closes a secure channel.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:StructuredType Name="SignedSoftwareCertificate" BaseType="ua:ExtensionObject">
<opc:Documentation>A software certificate with a digital signature.</opc:Documentation>
<opc:Field Name="CertificateData" TypeName="opc:ByteString" />
<opc:Field Name="Signature" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:OpaqueType Name="SessionAuthenticationToken">
<opc:Documentation>A unique identifier for a session used to authenticate requests.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="SignatureData" BaseType="ua:ExtensionObject">
<opc:Documentation>A digital signature.</opc:Documentation>
<opc:Field Name="Algorithm" TypeName="opc:String" />
<opc:Field Name="Signature" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="CreateSessionRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Creates a new session with the server.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="ClientDescription" TypeName="tns:ApplicationDescription" />
<opc:Field Name="ServerUri" TypeName="opc:String" />
<opc:Field Name="EndpointUrl" TypeName="opc:String" />
<opc:Field Name="SessionName" TypeName="opc:String" />
<opc:Field Name="ClientCertificate" TypeName="opc:ByteString" />
</opc:StructuredType>
<opc:StructuredType Name="CreateSessionResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Creates a new session with the server.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="SessionId" TypeName="ua:NodeId" />
  <opc:Field Name="AuthenticationToken" TypeName="ua:NodeId" />
  <opc:Field Name="RevisedSessionTimeout" TypeName="opc:Double" />
  <opc:Field Name="ServerNonce" TypeName="opc:ByteString" />
  <opc:Field Name="ServerCertificate" TypeName="opc:ByteString" />
  <opc:Field Name="NoOfServerEndpoints" TypeName="opc:Int32" />
  <opc:Field Name="ServerEndpoints" TypeName="tns:EndpointDescription" LengthField="NoOfServerEndpoints" />
  <opc:Field Name="NoOfServerSoftwareCertificates" TypeName="opc:Int32" />
  <opc:Field Name="ServerSoftwareCertificates" TypeName="tns:SignedSoftwareCertificate" LengthField="NoOfServerSoftwareCertificates" />
  <opc:Field Name="ServerSignature" TypeName="tns:SignatureData" />
  <opc:Field Name="MaxRequestMessageSize" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="UserIdentityToken" BaseType="ua:ExtensionObject">
  <opc:Documentation>A base type for a user identity token.</opc:Documentation>
  <opc:Field Name="PolicyId" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="AnonymousIdentityToken" BaseType="tns:UserIdentityToken">
  <opc:Documentation>A token representing an anonymous user.</opc:Documentation>
  <opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
</opc:StructuredType>

<opc:StructuredType Name="UserNameIdentityToken" BaseType="tns:UserIdentityToken">
  <opc:Documentation>A token representing a user identified by a user name and password.</opc:Documentation>
  <opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
  <opc:Field Name="UserName" TypeName="opc:String" />
  <opc:Field Name="Password" TypeName="opc:ByteString" />
  <opc:Field Name="EncryptionAlgorithm" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="X509IdentityToken" BaseType="tns:UserIdentityToken">
  <opc:Documentation>A token representing a user identified by an X509 certificate.</opc:Documentation>
  <opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
  <opc:Field Name="CertificateData" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="IssuedIdentityToken" BaseType="tns:UserIdentityToken">
  <opc:Documentation>A token representing a user identified by a WS-Security XML token.</opc:Documentation>
</opc:StructuredType>
<opc:StructuredType Name="ActivateSessionRequest" BaseType="ua:ExtensionObject">
    <opc:Documentation>Activates a session with the server.</opc:Documentation>
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
    <opc:Field Name="ClientSignature" TypeName="tns:SignatureData" />
    <opc:Field Name="NoOfClientSoftwareCertificates" TypeName="opc:Int32" />
    <opc:Field Name="ClientSoftwareCertificates" TypeName="tns:SignedSoftwareCertificate" LengthField="NoOfClientSoftwareCertificates" />
    <opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
    <opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
    <opc:Field Name="UserIdentityToken" TypeName="ua:ExtensionObject" />
    <opc:Field Name="UserTokenSignature" TypeName="tns:SignatureData" />
</opc:StructuredType>

<opc:StructuredType Name="ActivateSessionResponse" BaseType="ua:ExtensionObject">
    <opc:Documentation>Activates a session with the server.</opc:Documentation>
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
    <opc:Field Name="ServerNonce" TypeName="opc:ByteString" />
    <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
    <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
    <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
    <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="CloseSessionRequest" BaseType="ua:ExtensionObject">
    <opc:Documentation>Closes a session with the server.</opc:Documentation>
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
    <opc:Field Name="DeleteSubscriptions" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="CloseSessionResponse" BaseType="ua:ExtensionObject">
    <opc:Documentation>Closes a session with the server.</opc:Documentation>
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:StructuredType Name="CancelRequest" BaseType="ua:ExtensionObject">
    <opc:Documentation>Cancels an outstanding request.</opc:Documentation>
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
</opc:StructuredType>
<opc:StructuredType Name="CancelResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Cancels an outstanding request.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="CancelCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:EnumeratedType Name="NodeAttributesMask" LengthInBits="32">
<opc:Documentation>The bits used to specify default attributes for a new node.</opc:Documentation>
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="AccessLevel" Value="1" />
<opc:EnumeratedValue Name="ArrayDimensions" Value="2" />
<opc:EnumeratedValue Name="BrowseName" Value="4" />
<opc:EnumeratedValue Name="ContainsNoLoops" Value="8" />
<opc:EnumeratedValue Name="DataType" Value="16" />
<opc:EnumeratedValue Name="Description" Value="32" />
<opc:EnumeratedValue Name="DisplayName" Value="64" />
<opc:EnumeratedValue Name="EventNotifier" Value="128" />
<opc:EnumeratedValue Name="Executable" Value="256" />
<opc:EnumeratedValue Name="Historizing" Value="512" />
<opc:EnumeratedValue Name="InverseName" Value="1024" />
<opc:EnumeratedValue Name="IsAbstract" Value="2048" />
<opc:EnumeratedValue Name="MinimumSamplingInterval" Value="4096" />
<opc:EnumeratedValue Name="NodeClass" Value="8192" />
<opc:EnumeratedValue Name="NodeId" Value="16384" />
<opc:EnumeratedValue Name="Symmetric" Value="32768" />
<opc:EnumeratedValue Name="UserAccessLevel" Value="65536" />
<opc:EnumeratedValue Name="UserExecutable" Value="131072" />
<opc:EnumeratedValue Name="UserWriteMask" Value="262144" />
<opc:EnumeratedValue Name="ValueRank" Value="524288" />
<opc:EnumeratedValue Name="WriteMask" Value="1048576" />
<opc:EnumeratedValue Name="Value" Value="2097152" />
<opc:EnumeratedValue Name="DataTypeDefinition" Value="4194304" />
<opc:EnumeratedValue Name="RolePermissions" Value="8388608" />
<opc:EnumeratedValue Name="AccessRestrictions" Value="16777216" />
<opc:EnumeratedValue Name="All" Value="33554431" />
<opc:EnumeratedValue Name="BaseNode" Value="26501220" />
<opc:EnumeratedValue Name="Object" Value="26501348" />
<opc:EnumeratedValue Name="ObjectType" Value="26503268" />
<opc:EnumeratedValue Name="Variable" Value="26571383" />
<opc:EnumeratedValue Name="VariableType" Value="28600438" />
<opc:EnumeratedValue Name="Method" Value="26632548" />
<opc:EnumeratedValue Name="ReferenceType" Value="26537060" />
<opc:EnumeratedValue Name="View" Value="26501356" />
</opc:EnumeratedType>
<opc:StructuredType Name="NodeAttributes" BaseType="ua:ExtensionObject">
    <opc:Documentation>The base attributes for all nodes.</opc:Documentation>
    <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" />
    <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
    <opc:Field Name="Description" TypeName="ua:LocalizedText" />
    <opc:Field Name="WriteMask" TypeName="opc:UInt32" />
    <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="ObjectAttributes" BaseType="tns:NodeAttributes">
    <opc:Documentation>The attributes for an object node.</opc:Documentation>
    <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
    <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
    <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="EventNotifier" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="VariableAttributes" BaseType="tns:NodeAttributes">
    <opc:Documentation>The attributes for a variable node.</opc:Documentation>
    <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
    <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
    <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="Value" TypeName="ua:Variant" />
    <opc:Field Name="DataType" TypeName="ua:NodeId" />
    <opc:Field Name="ValueRank" TypeName="opc:Int32" />
    <opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
    <opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
    <opc:Field Name="AccessType" TypeName="opc:Byte" />
    <opc:Field Name="UserExecutable" TypeName="opc:Boolean" />
    <opc:Field Name="MinimumSamplingInterval" TypeName="opc:Double" />
    <opc:Field Name="Historizing" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="MethodAttributes" BaseType="tns:NodeAttributes">
    <opc:Documentation>The attributes for a method node.</opc:Documentation>
    <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
    <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
    <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
    <opc:Field Name="Executable" TypeName="opc:Boolean" />
    <opc:Field Name="UserExecutable" TypeName="opc:Boolean" />
</opc:StructuredType>
The attributes for a view node.

- **SpecifiedAttributes** (Type: UInt32)
- **DisplayName** (Type: LocalizedText)
- **Description** (Type: LocalizedText)
- **WriteMask** (Type: UInt32)
- **UserWriteMask** (Type: UInt32)
- **ContainsNoLoops** (Type: Boolean)
- **EventNotifier** (Type: Byte)

**GenericAttributeValue**
- **AttributeId** (Type: UInt32)
- **Value** (Type: Variant)

**GenericAttributes**
- **SpecifiedAttributes** (Type: UInt32)
- **DisplayName** (Type: LocalizedText)
- **Description** (Type: LocalizedText)
- **WriteMask** (Type: UInt32)
- **UserWriteMask** (Type: UInt32)
- **NoOfAttributeValue** (Type: Int32)
- **AttributeValues** (Type: GenericAttributeValue)

**AddNodesItem**
- **ParentNodeId** (Type: ExpandedNodeId)
- **ReferenceTypeId** (Type:NodeId)
- **RequestedNewNodeId** (Type: ExpandedNodeId)
- **BrowseName** (Type: QualifiedName)
- **NodeClass** (Type: NodeClass)
- **NodeAttributes** (Type: ExtensionObject)
- **TypeDefinition** (Type: ExpandedNodeId)

**AddNodesResult**
- **StatusCode** (Type: StatusCode)
- **AddedNodeId** (Type: NodeId)

**AddNodesRequest**
- **RequestHeader** (Type: RequestHeader)
- **NoOfNodesToAdd** (Type: Int32)
- **NodesToAdd** (Type: AddNodesItem)

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<opc:StructuredType Name="AddNodesResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Adds one or more nodes to the server address space.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="tns:AddNodesResult" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="AddReferencesItem" BaseType="ua:ExtensionObject">
<opc:Documentation>A request to add a reference to the server address space.</opc:Documentation>
<opc:Field Name="SourceNodeId" TypeName="ua:NodeId" />
<opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
<opc:Field Name="IsForward" TypeName="opc:Boolean" />
<opc:Field Name="TargetServerUri" TypeName="opc:String" />
<opc:Field Name="TargetNodeId" TypeName="ua:ExpandedNodeId" />
<opc:Field Name="TargetNodeClass" TypeName="tns:NodeClass" />
</opc:StructuredType>

<opc:StructuredType Name="AddReferencesRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Adds one or more references to the server address space.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfReferencesToAdd" TypeName="opc:Int32" />
<opc:Field Name="ReferencesToAdd" TypeName="tns:AddReferencesItem" LengthField="NoOfReferencesToAdd" />
</opc:StructuredType>

<opc:StructuredType Name="AddReferencesResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Adds one or more references to the server address space.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteNodesItem" BaseType="ua:ExtensionObject">
<opc:Documentation>A request to delete a node to the server address space.</opc:Documentation>
<opc:Field Name="NodeId" TypeName="ua:NodeId" />
<opc:Field Name="DeleteTargetReferences" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteNodesRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Delete one or more nodes from the server address space.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfNodesToDelete" TypeName="opc:Int32" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteNodesResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Delete one or more nodes from the server address space.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>
<opc:StructuredType Name="NodesToDelete" TypeName="tns:DeleteNodesItem" LengthField="NoOfNodesToDelete" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteNodesResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Delete one or more nodes from the server address space.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteReferencesItem" BaseType="ua:ExtensionObject">
<opc:Documentation>A request to delete a node from the server address space.</opc:Documentation>
<opc:Field Name="SourceNodeId" TypeName="ua:NodeId" />
<opc:Field Name="ReferenceTypId" TypeName="ua:NodeId" />
<opc:Field Name="IsForward" TypeName="opc:Boolean" />
<opc:Field Name="TargetNodeId" TypeName="ua:ExpandedNodeId" />
<opc:Field Name="DeleteBidirectional" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteReferencesRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Delete one or more references from the server address space.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfReferencesToDelete" TypeName="opc:Int32" />
<opc:Field Name="ReferencesToDelete" TypeName="tns:DeleteReferencesItem" LengthField="NoOfReferencesToDelete" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteReferencesResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Delete one or more references from the server address space.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:EnumeratedType Name="AttributeWriteMask" LengthInBits="32" IsOptionSet="true">
<opc:Documentation>Define bits used to indicate which attributes are writable.</opc:Documentation>
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="AccessLevel" Value="1" />
<opc:EnumeratedValue Name="ArrayDimensions" Value="2" />
<opc:EnumeratedValue Name="BrowseName" Value="4" />
<opc:EnumeratedValue Name="ContainsNoLoops" Value="8" />
<opc:EnumeratedValue Name="DataType" Value="16" />
<opc:EnumeratedValue Name="Description" Value="32" />
<opc:EnumeratedValue Name="DisplayName" Value="64" />
</opc:EnumeratedType>
<opc:EnumeratedValue Name="EventNotifier" Value="128" />
<opc:EnumeratedValue Name="Executable" Value="256" />
<opc:EnumeratedValue Name="Historizing" Value="512" />
<opc:EnumeratedValue Name="InverseName" Value="1024" />
<opc:EnumeratedValue Name="IsAbstract" Value="2048" />
<opc:EnumeratedValue Name="MinimumSamplingInterval" Value="4096" />
<opc:EnumeratedValue Name="NodeClass" Value="8192" />
<opc:EnumeratedValue Name="NodeId" Value="16384" />
<opc:EnumeratedValue Name="Symmetric" Value="32768" />
<opc:EnumeratedValue Name="UserAccessLevel" Value="65536" />
<opc:EnumeratedValue Name="UserExecutable" Value="131072" />
<opc:EnumeratedValue Name="UserWriteMask" Value="262144" />
<opc:EnumeratedValue Name="ValueRank" Value="524288" />
<opc:EnumeratedValue Name="WriteMask" Value="1048576" />
<opc:EnumeratedValue Name="ValueForVariableType" Value="2097152" />
<opc:EnumeratedValue Name="DataTypeDefinition" Value="4194304" />
<opc:EnumeratedValue Name="RolePermissions" Value="8388608" />
<opc:EnumeratedValue Name="AccessRestrictions" Value="16777216" />
<opc:EnumeratedValue Name="AccessLevelEx" Value="33554432" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="BrowseDirection" LengthInBits="32">
<opc:Documentation>The directions of the references to return.</opc:Documentation>
<opc:EnumeratedValue Name="Forward" Value="0" />
<opc:EnumeratedValue Name="Inverse" Value="1" />
<opc:EnumeratedValue Name="Both" Value="2" />
<opc:EnumeratedValue Name="Invalid" Value="3" />
</opc:EnumeratedType>

<opc:StructuredType Name="ViewDescription" BaseType="ua:ExtensionObject">
<opc:Documentation>The view to browse.</opc:Documentation>
<opc:Field Name="ViewId" TypeName="ua:NodeId" />
<opc:Field Name="Timestamp" TypeName="opc:DateTime" />
<opc:Field Name="ViewVersion" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="BrowseDescription" BaseType="ua:ExtensionObject">
<opc:Documentation>A request to browse the references from a node.</opc:Documentation>
<opc:Field Name="NodeId" TypeName="ua:NodeId" />
<opc:Field Name="BrowseDirection" TypeName="tns:BrowseDirection" />
<opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
<opc:Field Name="IncludeSubtypes" TypeName="opc:Boolean" />
<opc:Field Name="NodeClassMask" TypeName="opc:UInt32" />
<opc:Field Name="ResultMask" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:EnumeratedType Name="BrowseResultMask" LengthInBits="32">
<opc:Documentation>A bit mask which specifies what should be returned in a browse result.
</opc:Documentation>
<opc:EnumeratedValue Name="EventNotifier" Value="128" />
<opc:EnumeratedValue Name="Executable" Value="256" />
<opc:EnumeratedValue Name="Historizing" Value="512" />
<opc:EnumeratedValue Name="InverseName" Value="1024" />
<opc:EnumeratedValue Name="IsAbstract" Value="2048" />
<opc:EnumeratedValue Name="MinimumSamplingInterval" Value="4096" />
<opc:EnumeratedValue Name="NodeClass" Value="8192" />
<opc:EnumeratedValue Name="NodeId" Value="16384" />
<opc:EnumeratedValue Name="Symmetric" Value="32768" />
<opc:EnumeratedValue Name="UserAccessLevel" Value="65536" />
<opc:EnumeratedValue Name="UserExecutable" Value="131072" />
<opc:EnumeratedValue Name="UserWriteMask" Value="262144" />
<opc:EnumeratedValue Name="ValueRank" Value="524288" />
<opc:EnumeratedValue Name="WriteMask" Value="1048576" />
<opc:EnumeratedValue Name="ValueForVariableType" Value="2097152" />
<opc:EnumeratedValue Name="DataTypeDefinition" Value="4194304" />
<opc:EnumeratedValue Name="RolePermissions" Value="8388608" />
<opc:EnumeratedValue Name="AccessRestrictions" Value="16777216" />
<opc:EnumeratedValue Name="AccessLevelEx" Value="33554432" />
</opc:EnumeratedType>
response.

<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="ReferenceTypeId" Value="1" />
<opc:EnumeratedValue Name="IsForward" Value="2" />
<opc:EnumeratedValue Name="NodeClass" Value="4" />
<opc:EnumeratedValue Name="BrowseName" Value="8" />
<opc:EnumeratedValue Name="DisplayName" Value="16" />
<opc:EnumeratedValue Name="TypeDefinition" Value="32" />
<opc:EnumeratedValue Name="All" Value="63" />
<opc:EnumeratedValue Name="ReferenceTypeInfo" Value="3" />
<opc:EnumeratedValue Name="TargetInfo" Value="60" />
</opc:EnumeratedType>

<opc:StructuredType Name="ReferenceDescription" BaseType="ua:ExtensionObject">
<opc:Documentation>The description of a reference.</opc:Documentation>
<opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
<opc:Field Name="IsForward" TypeName="opc:Boolean" />
<opc:Field Name="NodeId" TypeName="ua:ExpandedNodeId" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedString" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" />
<opc:Field Name="TypeDefinition" TypeName="ua:ExpandedNodeId" />
</opc:StructuredType>

<opc:OpaqueType Name="ContinuationPoint">
<opc:Documentation>An identifier for a suspended query or browse operation.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="BrowseResult" BaseType="ua:ExtensionObject">
<opc:Documentation>The result of a browse operation.</opc:Documentation>
<opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
<opc:Field Name="ContinuationPoint" TypeName="opc:ByteString" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceDescription" LengthField="NoOfReferences" />
</opc:StructuredType>

<opc:StructuredType Name="BrowseRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Browse the references for one or more nodes from the server address space.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="View" TypeName="tns:ViewDescription" />
<opc:Field Name="RequestedMaxReferencesPerNode" TypeName="opc:UInt32" />
<opc:Field Name="NoOfNodesToBrowse" TypeName="opc:Int32" />
</opc:StructuredType>

<opc:StructuredType Name="BrowseResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Browse the references for one or more nodes from the server address space.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="tns:BrowseResult" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="BrowseNextRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Continues one or more browse operations.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="ReleaseContinuationPoints" TypeName="opc:Boolean" />
<opc:Field Name="NoOfContinuationPoints" TypeName="opc:Int32" />
<opc:Field Name="ContinuationPoints" TypeName="opc:ByteString" LengthField="NoOfContinuationPoints" />
</opc:StructuredType>

<opc:StructuredType Name="BrowseNextResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Continues one or more browse operations.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="tns:BrowseResult" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="RelativePathElement" BaseType="ua:ExtensionObject">
<opc:Documentation>An element in a relative path.</opc:Documentation>
<opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
<opc:Field Name="IsInverse" TypeName="opc:Boolean" />
<opc:Field Name="IncludeSubtypes" TypeName="opc:Boolean" />
<opc:Field Name="TargetName" TypeName="ua:QualifiedName" />
</opc:StructuredType>

<opc:StructuredType Name="RelativePath" BaseType="ua:ExtensionObject">
<opc:Documentation>A relative path constructed from reference types and browse names.</opc:Documentation>
<opc:Field Name="NoOfElements" TypeName="opc:Int32" />
<opc:Field Name="Elements" TypeName="tns:RelativePathElement" LengthField="NoOfElements" />
</opc:StructuredType>

<opc:StructuredType Name="BrowsePath" BaseType="ua:ExtensionObject">
<opc:Documentation>A request to translate a path into a node id.</opc:Documentation>
<opc:Field Name="StartingNode" TypeName="ua:NodeId" />
<opc:Field Name="RelativePath" TypeName="tns:RelativePath" />
</opc:StructuredType>

<opc:StructuredType Name="BrowsePathTarget" BaseType="ua:ExtensionObject">
<opc:Documentation>The target of the translated path.</opc:Documentation>
</opc:StructuredType>
<opc:StructuredType Name="BrowsePathResult" BaseType="ua:ExtensionObject">
<opc:Documentation>The result of a translate operation.</opc:Documentation>
<opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
<opc:Field Name="NoOfTargets" TypeName="opc:UInt32" />
<opc:Field Name="Targets" TypeName="tns:BrowsePathTarget" LengthField="NoOfTargets" />
</opc:StructuredType>

<opc:StructuredType Name="TranslateBrowsePathsToNodeIdsRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Translates one or more paths in the server address space.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfBrowsePaths" TypeName="opc:UInt32" />
<opc:Field Name="BrowsePaths" TypeName="tns:BrowsePath" LengthField="NoOfBrowsePaths" />
</opc:StructuredType>

<opc:StructuredType Name="TranslateBrowsePathsToNodeIdsResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Translates one or more paths in the server address space.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:UInt32" />
<opc:Field Name="Results" TypeName="tns:BrowsePathResult" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:UInt32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterNodesRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Registers one or more nodes for repeated use within a session.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfNodesToRegister" TypeName="opc:UInt32" />
<opc:Field Name="NodesToRegister" TypeName="ua:NodeId" LengthField="NoOfNodesToRegister" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterNodesResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Registers one or more nodes for repeated use within a session.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfRegisteredNodeIds" TypeName="opc:UInt32" />
<opc:Field Name="RegisteredNodeIds" TypeName="ua:NodeId" LengthField="NoOfRegisteredNodeIds" />
</opc:StructuredType>

<opc:StructuredType Name="UnregisterNodesRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Unregisters one or more previously registered nodes.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfNodesToUnregister" TypeName="opc:UInt32" />
<opc:Field Name="NodesToUnregister" TypeName="ua:NodeId" LengthField="NoOfNodesToUnregister" />
</opc:StructuredType>
<opc:StructuredType Name="UnregisterNodesResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Unregisters one or more previously registered nodes.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:OpaqueType Name="Counter">
  <opc:Documentation>A monotonically increasing value.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="NumericRange">
  <opc:Documentation>Specifies a range of array indexes.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="Time">
  <opc:Documentation>A time value specified as HH:MM:SS.SSS.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="Date">
  <opc:Documentation>A date value.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="EndpointConfiguration" BaseType="ua:ExtensionObject">
  <opc:Field Name="OperationTimeout" TypeName="opc:Int32" />
  <opc:Field Name="UseBinaryEncoding" TypeName="opc:Boolean" />
  <opc:Field Name="MaxStringLength" TypeName="opc:Int32" />
  <opc:Field Name="MaxByteStringLength" TypeName="opc:Int32" />
  <opc:Field Name="MaxArrayLength" TypeName="opc:Int32" />
  <opc:Field Name="MaxMessageSize" TypeName="opc:Int32" />
  <opc:Field Name="MaxBufferSize" TypeName="opc:Int32" />
  <opc:Field Name="ChannelLifetime" TypeName="opc:Int32" />
  <opc:Field Name="SecurityTokenLifetime" TypeName="opc:Int32" />
</opc:StructuredType>

<opc:StructuredType Name="QueryDataDescription" BaseType="ua:ExtensionObject">
  <opc:Field Name="RelativePath" TypeName="tns:RelativePath" />
  <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
  <opc:Field Name="IndexRange" TypeName="opc:String" LengthField="NoOfDataToReturn" />
</opc:StructuredType>

<opc:StructuredType Name="NodeTypeDescription" BaseType="ua:ExtensionObject">
  <opc:Field Name="TypeDefinitionNode" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="IncludeSubTypes" TypeName="opc:Boolean" />
  <opc:Field Name="NoOfDataToReturn" TypeName="opc:Int32" />
  <opc:Field Name="DataToReturn" TypeName="tns:QueryDataDescription" LengthField="NoOfDataToReturn" />
</opc:StructuredType>

<opc:EnumeratedType Name="FilterOperator" LengthInBits="32">
<opc:EnumeratedType Name="FilterOperator" Values="">
  <opc:EnumeratedValue Name="Equals" Value="0" />
  <opc:EnumeratedValue Name="IsNull" Value="1" />
  <opc:EnumeratedValue Name="GreaterThan" Value="2" />
  <opc:EnumeratedValue Name="LessThan" Value="3" />
  <opc:EnumeratedValue Name="GreaterThanOrEqual" Value="4" />
  <opc:EnumeratedValue Name="LessThanOrEqual" Value="5" />
  <opc:EnumeratedValue Name="Like" Value="6" />
  <opc:EnumeratedValue Name="Not" Value="7" />
  <opc:EnumeratedValue Name="Between" Value="8" />
  <opc:EnumeratedValue Name="InList" Value="9" />
  <opc:EnumeratedValue Name="And" Value="10" />
  <opc:EnumeratedValue Name="Or" Value="11" />
  <opc:EnumeratedValue Name="Cast" Value="12" />
  <opc:EnumeratedValue Name="InView" Value="13" />
  <opc:EnumeratedValue Name="OfType" Value="14" />
  <opc:EnumeratedValue Name="RelatedTo" Value="15" />
  <opc:EnumeratedValue Name="BitwiseAnd" Value="16" />
  <opc:EnumeratedValue Name="BitwiseOr" Value="17" />
</opc:EnumeratedType>

<opc:StructuredType Name="QueryDataSet" BaseType="ua:ExtensionObject">
  <opc:Field Name="NodeId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="TypeDefinitionNode" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="NoOfValues" TypeName="opc:Int32" />
  <opc:Field Name="Values" TypeName="ua:Variant" LengthField="NoOfValues" />
</opc:StructuredType>

<opc:StructuredType Name="NodeReference" BaseType="ua:ExtensionObject">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="IsForward" TypeName="opc:Boolean" />
  <opc:Field Name="NoOfReferencedNodeIds" TypeName="opc:Int32" />
  <opc:Field Name="ReferencedNodeIds" TypeName="ua:NodeId" LengthField="NoOfReferencedNodeIds" />
</opc:StructuredType>

<opc:StructuredType Name="ContentFilterElement" BaseType="ua:ExtensionObject">
  <opc:Field Name="FilterOperator" TypeName="tns:FilterOperator" />
  <opc:Field Name="NoOfFilterOperands" TypeName="opc:Int32" />
  <opc:Field Name="FilterOperands" TypeName="ua:ExtensionObject" LengthField="NoOfFilterOperands" />
</opc:StructuredType>

<opc:StructuredType Name="ContentFilter" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfElements" TypeName="opc:Int32" />
  <opc:Field Name="Elements" TypeName="tns:ContentFilterElement" LengthField="NoOfElements" />
</opc:StructuredType>

<opc:StructuredType Name="FilterOperand" BaseType="ua:ExtensionObject">
  <opc:Field Name="NodeId" />
  <opc:Field Name="NoOfReferencedNodeIds" />
  <opc:Field Name="ReferencedNodeIds" LengthField="NoOfReferencedNodeIds" />
</opc:StructuredType>
<opc:StructuredType Name="ElementOperand" BaseType="tns:FilterOperand">
  <opc:Field Name="Index" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="LiteralOperand" BaseType="tns:FilterOperand">
  <opc:Field Name="Value" TypeName="ua:Variant" />
</opc:StructuredType>

<opc:StructuredType Name="AttributeOperand" BaseType="tns:FilterOperand">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="Alias" TypeName="opc:String" />
  <opc:Field Name="BrowsePath" TypeName="tns:RelativePath" />
  <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
  <opc:Field Name="IndexRange" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="SimpleAttributeOperand" BaseType="tns:FilterOperand">
  <opc:Field Name="TypeDefinitionId" TypeName="ua:NodeId" />
  <opc:Field Name="NoOfBrowsePath" TypeName="opc:Int32" />
  <opc:Field Name="BrowsePath" TypeName="ua:QualifiedName" LengthField="NoOfBrowsePath" />
  <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
  <opc:Field Name="IndexRange" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="ContentFilterElementResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="NoOfOperandStatusCodes" TypeName="opc:Int32" />
  <opc:Field Name="OperandStatusCodes" TypeName="ua:StatusCode" LengthField="NoOfOperandStatusCodes" />
  <opc:Field Name="NoOfOperandDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="OperandDiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfOperandDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="ContentFilterResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfElementResults" TypeName="opc:Int32" />
  <opc:Field Name="ElementResults" TypeName="tns:ContentFilterElementResult" LengthField="NoOfElementResults" />
  <opc:Field Name="NoOfElementDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="ElementDiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfElementDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="ParsingResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="NoOfDataStatusCodes" TypeName="opc:Int32" />
  <opc:Field Name="DataStatusCodes" TypeName="ua:StatusCode" LengthField="NoOfDataStatusCodes" />
</opc:StructuredType>
<opc:Field Name="NoOfDataDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DataDiagnosticInfos" TypeName="ua:DiagnosticInfo"
LengthField="NoOfDataDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="QueryFirstRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="View" TypeName="tns:ViewDescription" />
<opc:Field Name="NoOfNodeTypes" TypeName="opc:Int32" />
<opc:Field Name="NodeTypes" TypeName="tns:NodeTypeDescription" LengthField="NoOfNodeTypes" />
<opc:Field Name="Filter" TypeName="tns:ContentFilter" />
<opc:Field Name="MaxDataSetsToReturn" TypeName="opc:UInt32" />
<opc:Field Name="MaxReferencesToReturn" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="QueryFirstResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfQueryDataSets" TypeName="opc:Int32" />
<opc:Field Name="QueryDataSets" TypeName="tns:QueryDataSet" LengthField="NoOfQueryDataSets" />
<opc:Field Name="NoOfParsingResults" TypeName="opc:Int32" />
<opc:Field Name="ParsingResults" TypeName="tns:ParsingResult" LengthField="NoOfParsingResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
<opc:Field Name="FilterResult" TypeName="tns:ContentFilterResult" />
</opc:StructuredType>

<opc:StructuredType Name="QueryNextRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="ReleaseContinuationPoint" TypeName="opc:Boolean" />
<opc:Field Name="ContinuationPoint" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="QueryNextResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfQueryDataSets" TypeName="opc:Int32" />
<opc:Field Name="QueryDataSets" TypeName="tns:QueryDataSet" LengthField="NoOfQueryDataSets" />
<opc:Field Name="RevisedContinuationPoint" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:EnumeratedType Name="TimestampsToReturn" LengthInBits="32">
<opc:EnumeratedValue Name="Source" Value="0" />
<opc:EnumeratedValue Name="Server" Value="1" />
<opc:EnumeratedValue Name="Both" Value="2" />
<opc:EnumeratedValue Name="Neither" Value="3" />
<opc:EnumeratedValue Name="Invalid" Value="4" />
</opc:EnumeratedType>
<opc:StructuredType Name="ReadValueId" BaseType="ua:ExtensionObject">
    <opc:Field Name="NodeId" TypeName="ua:NodeId" />
    <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
    <opc:Field Name="IndexRange" TypeName="opc:String" />
    <opc:Field Name="DataEncoding" TypeName="ua:QualifiedName" />
</opc:StructuredType>

<opc:StructuredType Name="ReadRequest" BaseType="ua:ExtensionObject">
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
    <opc:Field Name="MaxAge" TypeName="opc:Double" />
    <opc:Field Name="TimestampsToReturn" TypeName="tns:TimestampsToReturn" />
    <opc:Field Name="NoOfNodesToRead" TypeName="opc:Int32" />
    <opc:Field Name="NodesToRead" TypeName="tns:ReadValueId" LengthField="NoOfNodesToRead" />
</opc:StructuredType>

<opc:StructuredType Name="ReadResponse" BaseType="ua:ExtensionObject">
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
    <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
    <opc:Field Name="Results" TypeName="ua:DataValue" LengthField="NoOfResults" />
    <opc:Field Name="NoOfDiagnostic Infos" TypeName="opc:Int32" />
    <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadValueId" BaseType="ua:ExtensionObject">
    <opc:Field Name="NodeId" TypeName="ua:NodeId" />
    <opc:Field Name="IndexRange" TypeName="opc:String" />
    <opc:Field Name="DataEncoding" TypeName="ua:QualifiedName" />
    <opc:Field Name="ContinuationPoint" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadResult" BaseType="ua:ExtensionObject">
    <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
    <opc:Field Name="ContinuationPoint" TypeName="opc:ByteString" />
    <opc:Field Name="HistoryData" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadDetails" BaseType="ua:ExtensionObject">
    <opc:Field Name="NumValuesPerNode" TypeName="opc:UInt32" />
    <opc:Field Name="StartTime" TypeName="opc:DateTime" />
    <opc:Field Name="EndTime" TypeName="opc:DateTime" />
    <opc:Field Name="Filter" TypeName="tns:EventFilter" />
</opc:StructuredType>

<opc:StructuredType Name="ReadEventDetails" BaseType="tns:HistoryReadDetails">
    <opc:Field Name="IsReadModified" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="ReadRawModifiedDetails" BaseType="tns:HistoryReadDetails">
</opc:StructuredType>
<opc:StructuredType Name="ReadProcessedDetails" BaseType="tns:HistoryReadDetails">
    <opc:Field Name="StartTime" TypeName="opc:DateTime" />
    <opc:Field Name="EndTime" TypeName="opc:DateTime" />
    <opc:Field Name="ProcessingInterval" TypeName="opc:Double" />
    <opc:Field Name="NoOfAggregateType" TypeName="opc:Int32" />
    <opc:Field Name="AggregateType" TypeName="ua:NodeId" LengthField="NoOfAggregateType" />
    <opc:Field Name="AggregateConfiguration" TypeName="tns:AggregateConfiguration" />
</opc:StructuredType>

<opc:StructuredType Name="ReadAtTimeDetails" BaseType="tns:HistoryReadDetails">
    <opc:Field Name="NoOfReqTimes" TypeName="opc:Int32" />
    <opc:Field Name="ReqTimes" TypeName="opc:DateTime" LengthField="NoOfReqTimes" />
    <opc:Field Name="UseSimpleBounds" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryData" BaseType="ua:ExtensionObject">
    <opc:Field Name="NoOfDataValues" TypeName="opc:Int32" />
    <opc:Field Name="DataValues" TypeName="ua:DataValue" LengthField="NoOfDataValues" />
</opc:StructuredType>

<opc:StructuredType Name="ModificationInfo" BaseType="ua:ExtensionObject">
    <opc:Field Name="ModificationTime" TypeName="opc:DateTime" />
    <opc:Field Name="UpdateType" TypeName="tns:HistoryUpdateType" />
    <opc:Field Name="UserName" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryModifiedData" BaseType="tns:HistoryData">
    <opc:Field Name="NoOfDataValues" TypeName="opc:Int32" />
    <opc:Field Name="DataValues" TypeName="ua:DataValue" LengthField="NoOfDataValues" />
    <opc:Field Name="NoOfModificationInfos" TypeName="opc:Int32" />
    <opc:Field Name="ModificationInfos" TypeName="tns:ModificationInfo" LengthField="NoOfModificationInfos" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryEvent" BaseType="ua:ExtensionObject">
    <opc:Field Name="NoOfEvents" TypeName="opc:Int32" />
    <opc:Field Name="Events" TypeName="tns:HistoryEventFieldList" LengthField="NoOfEvents" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadRequest" BaseType="ua:ExtensionObject">
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
    <opc:Field Name="HistoryReadDetails" TypeName="ua:ExtensionObject" />
</opc:StructuredType>
<opc:Field Name="TimestampsToReturn" TypeName="tns:TimestampsToReturn" />
<opc:Field Name="ReleaseContinuationPoints" TypeName="opc:Boolean" />
<opc:Field Name="NoOfNodesToRead" TypeName="opc:Int32" />
<opc:Field Name="NodesToRead" TypeName="tns:HistoryReadValueId" LengthField="NoOfNodesToRead" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:HistoryReadResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="WriteValue" BaseType="ua:ExtensionObject">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
  <opc:Field Name="IndexRange" TypeName="opc:String" />
  <opc:Field Name="Value" TypeName="ua:DataValue" />
</opc:StructuredType>

<opc:StructuredType Name="WriteRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfNodesToWrite" TypeName="opc:Int32" />
  <opc:Field Name="NodesToWrite" TypeName="tns:WriteValue" LengthField="NoOfNodesToWrite" />
</opc:StructuredType>

<opc:StructuredType Name="WriteResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryUpdateDetails" BaseType="ua:ExtensionObject">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
</opc:StructuredType>

<opc:EnumeratedType Name="HistoryUpdateType" LengthInBits="32">
  <opc:EnumeratedValue Name="Insert" Value="1" />
  <opc:EnumeratedValue Name="Replace" Value="2" />
  <opc:EnumeratedValue Name="Update" Value="3" />
  <opc:EnumeratedValue Name="Delete" Value="4" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="PerformUpdateType" LengthInBits="32">
  <opc:EnumeratedValue Name="Insert" Value="1" />
</opc:EnumeratedType>
<opc:EnumeratedType Name="Replace" Value="2" />
<opc:EnumeratedValue Name="Update" Value="3" />
<opc:EnumeratedValue Name="Remove" Value="4" />
</opc:EnumeratedType>

<opc:StructuredType Name="UpdateDataDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="PerformInsertReplace" TypeName="tns:PerformUpdateType" />
  <opc:Field Name="NoOfUpdateValues" TypeName="opc:Int32" />
  <opc:Field Name="UpdateValues" TypeName="ua:DataValue" LengthField="NoOfUpdateValues" />
</opc:StructuredType>

<opc:StructuredType Name="UpdateStructureDataDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="PerformInsertReplace" TypeName="tns:PerformUpdateType" />
  <opc:Field Name="NoOfUpdateValues" TypeName="opc:Int32" />
  <opc:Field Name="UpdateValues" TypeName="ua:DataValue" LengthField="NoOfUpdateValues" />
</opc:StructuredType>

<opc:StructuredType Name="UpdateEventDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="PerformInsertReplace" TypeName="tns:PerformUpdateType" />
  <opc:Field Name="Filter" TypeName="tns:EventFilter" />
  <opc:Field Name="NoOfEventData" TypeName="opc:Int32" />
  <opc:Field Name="EventData" TypeName="tns:HistoryEventFieldList" LengthField="NoOfEventData" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteRawModifiedDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="IsDeleteModified" TypeName="opc:Boolean" />
  <opc:Field Name="StartTime" TypeName="opc:DateTime" />
  <opc:Field Name="EndTime" TypeName="opc:DateTime" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteAtTimeDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="NoOfReqTimes" TypeName="opc:Int32" />
  <opc:Field Name="ReqTimes" TypeName="opc:DateTime" LengthField="NoOfReqTimes" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteEventDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="NoOfEventIds" TypeName="opc:Int32" />
  <opc:Field Name="EventIds" TypeName="opc:ByteString" LengthField="NoOfEventIds" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryUpdateResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
</opc:StructuredType>
<opc:Field Name="NoOfOperationResults" TypeName="opc:Int32"/>
<opc:Field Name="OperationResults" TypeName="ua:StatusCode" LengthField="NoOfOperationResults"/>
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32"/>
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos"/>
</opc:StructuredType>

<opc:StructuredType Name="HistoryUpdateRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader"/>
  <opc:Field Name="NoOfHistoryUpdateDetails" TypeName="opc:Int32"/>
  <opc:Field Name="HistoryUpdateDetails" TypeName="ua:ExtensionObject" LengthField="NoOfHistoryUpdateDetails"/>
</opc:StructuredType>

<opc:StructuredType Name="HistoryUpdateResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader"/>
  <opc:Field Name="NoOfResults" TypeName="opc:Int32"/>
  <opc:Field Name="Results" TypeName="tns:HistoryUpdateResult" LengthField="NoOfResults"/>
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32"/>
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos"/>
</opc:StructuredType>

<opc:StructuredType Name="CallMethodRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="ObjectId" TypeName="ua:NodeId"/>
  <opc:Field Name="MethodId" TypeName="ua:NodeId"/>
  <opc:Field Name="NoOfInputArguments" TypeName="opc:Int32"/>
  <opc:Field Name="InputArguments" TypeName="ua:Variant" LengthField="NoOfInputArguments"/>
</opc:StructuredType>

<opc:StructuredType Name="CallMethodResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode"/>
  <opc:Field Name="NoOfInputArgumentResults" TypeName="opc:Int32"/>
  <opc:Field Name="InputArgumentResults" TypeName="ua:StatusCode" LengthField="NoOfInputArgumentResults"/>
  <opc:Field Name="NoOfInputArgumentDiagnosticInfos" TypeName="opc:Int32"/>
  <opc:Field Name="InputArgumentDiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfInputArgumentDiagnosticInfos"/>
  <opc:Field Name="NoOfOutputArguments" TypeName="opc:Int32"/>
  <opc:Field Name="OutputArguments" TypeName="ua:Variant" LengthField="NoOfOutputArguments"/>
</opc:StructuredType>

<opc:StructuredType Name="CallRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader"/>
  <opc:Field Name="NoOfMethodsToCall" TypeName="opc:Int32"/>
  <opc:Field Name="MethodsToCall" TypeName="tns:CallMethodRequest" LengthField="NoOfMethodsToCall"/>
</opc:StructuredType>

<opc:StructuredType Name="CallResponse" BaseType="ua:ExtensionObject">
</opc:StructuredType>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="tns:CallMethodResult" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:EnumeratedType Name="MonitoringMode" LengthInBits="32">
<opc:EnumeratedValue Name="Disabled" Value="0" />
<opc:EnumeratedValue Name="Sampling" Value="1" />
<opc:EnumeratedValue Name="Reporting" Value="2" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="DataChangeTrigger" LengthInBits="32">
<opc:EnumeratedValue Name="Status" Value="0" />
<opc:EnumeratedValue Name="StatusValue" Value="1" />
<opc:EnumeratedValue Name="StatusValueTimestamp" Value="2" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="DeadbandType" LengthInBits="32">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="Absolute" Value="1" />
<opc:EnumeratedValue Name="Percent" Value="2" />
</opc:EnumeratedType>

<opc:StructuredType Name="MonitoringFilter" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="DataChangeFilter" BaseType="tns:MonitoringFilter">
<opc:Field Name="Trigger" TypeName="tns:DataChangeTrigger" />
<opc:Field Name="DeadbandType" TypeName="opc:UInt32" />
<opc:Field Name="DeadbandValue" TypeName="opc:Double" />
</opc:StructuredType>

<opc:StructuredType Name="EventFilter" BaseType="tns:MonitoringFilter">
<opc:Field Name="NoOfSelectClauses" TypeName="opc:Int32" />
<opc:Field Name="SelectClauses" TypeName="tns:SimpleAttributeOperand" LengthField="NoOfSelectClauses" />
<opc:Field Name="WhereClause" TypeName="tns:ContentFilter" />
</opc:StructuredType>

<opc:StructuredType Name="AggregateConfiguration" BaseType="ua:ExtensionObject">
<opc:Field Name="UseServerCapabilitiesDefaults" TypeName="opc:Boolean" />
<opc:Field Name="TreatUncertainAsBad" TypeName="opc:Boolean" />
<opc:Field Name="PercentDataBad" TypeName="opc:Byte" />
<opc:Field Name="PercentDataGood" TypeName="opc:Byte" />
<opc:Field Name="UseSlopedExtrapolation" TypeName="opc:Boolean" />
</opc:StructuredType>
<opc:StructuredType Name="AggregateFilter" BaseType="tns:MonitoringFilter">
    <opc:Field Name="StartTime" TypeName="opc:DateTime" />
    <opc:Field Name="AggregateType" TypeName="ua:NodeId" />
    <opc:Field Name="ProcessingInterval" TypeName="opc:Double" />
    <opc:Field Name="AggregateConfiguration" TypeName="tns:AggregateConfiguration" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoringFilterResult" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="EventFilterResult" BaseType="tns:MonitoringFilterResult">
    <opc:Field Name="NoOfSelectClauseResults" TypeName="opc:Int32" />
    <opc:Field Name="SelectClauseResults" TypeName="ua:StatusCode" LengthField="NoOfSelectClauseResults" />
    <opc:Field Name="NoOfSelectClauseDiagnosticInfos" TypeName="opc:Int32" />
    <opc:Field Name="SelectClauseDiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfSelectClauseDiagnosticInfos" />
    <opc:Field Name="WhereClauseResult" TypeName="tns:ContentFilterResult" />
</opc:StructuredType>

<opc:StructuredType Name="AggregateFilterResult" BaseType="tns:MonitoringFilterResult">
    <opc:Field Name="RevisedStartTime" TypeName="opc:DateTime" />
    <opc:Field Name="RevisedProcessingInterval" TypeName="opc:Double" />
    <opc:Field Name="RevisedAggregateConfiguration" TypeName="tns:AggregateConfiguration" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoringParameters" BaseType="ua:ExtensionObject">
    <opc:Field Name="ClientHandle" TypeName="opc:UInt32" />
    <opc:Field Name="SamplingInterval" TypeName="opc:Double" />
    <opc:Field Name="Filter" TypeName="ua:ExtensionObject" />
    <opc:Field Name="QueueSize" TypeName="opc:UInt32" />
    <opc:Field Name="DiscardOldest" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoredItemCreateRequest" BaseType="ua:ExtensionObject">
    <opc:Field Name="ItemToMonitor" TypeName="tns:ReadValueId" />
    <opc:Field Name="MonitoringMode" TypeName="tns:MonitoringMode" />
    <opc:Field Name="RequestedParameters" TypeName="tns:MonitoringParameters" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoredItemCreateResult" BaseType="ua:ExtensionObject">
    <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
    <opc:Field Name="MonitoredItemId" TypeName="opc:UInt32" />
    <opc:Field Name="RevisedSamplingInterval" TypeName="opc:Double" />
    <opc:Field Name="RevisedQueueSize" TypeName="opc:UInt32" />
    <opc:Field Name="FilterResult" TypeName="ua:ExtensionObject" />
</opc:StructuredType>
<opc:StructuredType Name="CreateMonitoredItemsRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="TimestampsToReturn" TypeName="tns:TimestampsToReturn" />
  <opc:Field Name="NoOfItemsToCreate" TypeName="opc:Int32" />
  <opc:Field Name="ItemsToCreate" TypeName="tns:MonitoredItemCreateRequest" LengthField="NoOfItemsToCreate" />
</opc:StructuredType>

<opc:StructuredType Name="CreateMonitoredItemsResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:MonitoredItemCreateResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoredItemModifyRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="MonitoredItemId" TypeName="opc:UInt32" />
  <opc:Field Name="RequestedParameters" TypeName="tns:MonitoringParameters" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoredItemModifyResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="RevisedSamplingInterval" TypeName="opc:Double" />
  <opc:Field Name="RevisedQueueSize" TypeName="opc:UInt32" />
  <opc:Field Name="FilterResult" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="ModifyMonitoredItemsRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="TimestampsToReturn" TypeName="tns:TimestampsToReturn" />
  <opc:Field Name="NoOfItemsToModify" TypeName="opc:Int32" />
  <opc:Field Name="ItemsToModify" TypeName="tns:MonitoredItemModifyRequest" LengthField="NoOfItemsToModify" />
</opc:StructuredType>

<opc:StructuredType Name="ModifyMonitoredItemsResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:MonitoredItemModifyResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="SetMonitoringModeRequest" BaseType="ua:ExtensionObject">
</opc:StructuredType>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="MonitoringMode" TypeName="tns:MonitoringMode" />
<opc:Field Name="NoOfMonitoredItemIds" TypeName="opc:Int32" />
<opc:Field Name="MonitoredItemIds" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="SetMonitoringModeResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:StatusCode" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" />
</opc:StructuredType>

<opc:StructuredType Name="SetTriggeringRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="TriggeringItemId" TypeName="opc:UInt32" />
<opc:Field Name="NoOfLinksToAdd" TypeName="opc:Int32" />
<opc:Field Name="LinksToAdd" TypeName="opc:UInt32" />
<opc:Field Name="NoOfLinksToRemove" TypeName="opc:Int32" />
<opc:Field Name="LinksToRemove" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="SetTriggeringResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfAddResults" TypeName="opc:Int32" />
<opc:Field Name="AddResults" TypeName="ua:StatusCode" />
<opc:Field Name="NoOfAddDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="AddDiagnosticInfos" TypeName="ua:DiagnosticInfo" />
<opc:Field Name="NoOfRemoveResults" TypeName="opc:Int32" />
<opc:Field Name="RemoveResults" TypeName="ua:StatusCode" />
<opc:Field Name="NoOfRemoveDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="RemoveDiagnosticInfos" TypeName="ua:DiagnosticInfo" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteMonitoredItemsRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="NoOfMonitoredItemIds" TypeName="opc:Int32" />
<opc:Field Name="MonitoredItemIds" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteMonitoredItemsResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="CreateSubscriptionRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="RequestedPublishingInterval" TypeName="opc:Double" />
<opc:Field Name="RequestedLifetimeCount" TypeName="opc:UInt32" />
<opc:Field Name="RequestedMaxKeepAliveCount" TypeName="opc:UInt32" />
<opc:Field Name="MaxNotificationsPerPublish" TypeName="opc:UInt32" />
<opc:Field Name="PublishingEnabled" TypeName="opc:Boolean" />
<opc:Field Name="Priority" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="CreateSubscriptionResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="RevisedPublishingInterval" TypeName="opc:Double" />
<opc:Field Name="RevisedLifetimeCount" TypeName="opc:UInt32" />
<opc:Field Name="RevisedMaxKeepAliveCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="ModifySubscriptionRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="RequestedPublishingInterval" TypeName="opc:Double" />
<opc:Field Name="RequestedLifetimeCount" TypeName="opc:UInt32" />
<opc:Field Name="RequestedMaxKeepAliveCount" TypeName="opc:UInt32" />
<opc:Field Name="Priority" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="ModifySubscriptionResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="RevisedPublishingInterval" TypeName="opc:Double" />
<opc:Field Name="RevisedLifetimeCount" TypeName="opc:UInt32" />
<opc:Field Name="RevisedMaxKeepAliveCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="SetPublishingModeRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="PublishingEnabled" TypeName="opc:Boolean" />
<opc:Field Name="NoOfSubscriptionIds" TypeName="opc:Int32" />
<opc:Field Name="SubscriptionIds" TypeName="opc:UInt32" LengthField="NoOfSubscriptionIds" />
</opc:StructuredType>
<opc:StructuredType Name="SetPublishingModeResponse" BaseType="ua:ExtensionObject">
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
    <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
    <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
    <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
    <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="NotificationMessage" BaseType="ua:ExtensionObject">
    <opc:Field Name="SequenceNumber" TypeName="opc:UInt32" />
    <opc:Field Name="PublishTime" TypeName="opc:DateTime" />
    <opc:Field Name="NoOfNotificationData" TypeName="opc:Int32" />
    <opc:Field Name="NotificationData" TypeName="ua:ExtensionObject" LengthField="NoOfNotificationData" />
</opc:StructuredType>

<opc:StructuredType Name="NotificationData" BaseType="ua:ExtensionObject">
    <opc:Field Name="DataChangeNotification" BaseType="tns:NotificationData">
        <opc:Field Name="NoOfMonitoredItems" TypeName="opc:Int32" />
        <opc:Field Name="MonitoredItems" TypeName="tns:MonitoredItemNotification" LengthField="NoOfMonitoredItems" />
        <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
        <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
    </opc:StructuredType>

    <opc:StructuredType Name="MonitoredItemNotification" BaseType="ua:ExtensionObject">
        <opc:Field Name="ClientHandle" TypeName="opc:UInt32" />
        <opc:Field Name="Value" TypeName="ua:DataValue" />
    </opc:StructuredType>

    <opc:StructuredType Name="EventNotificationList" BaseType="tns:NotificationData">
        <opc:Field Name="NoOfEvents" TypeName="opc:Int32" />
        <opc:Field Name="Events" TypeName="tns:EventFieldList" LengthField="NoOfEvents" />
    </opc:StructuredType>

    <opc:StructuredType Name="EventFieldList" BaseType="ua:ExtensionObject">
        <opc:Field Name="ClientHandle" TypeName="opc:UInt32" />
        <opc:Field Name="NoOfEventFields" TypeName="opc:Int32" />
        <opc:Field Name="EventFields" TypeName="ua:Variant" LengthField="NoOfEventFields" />
    </opc:StructuredType>

    <opc:StructuredType Name="HistoryEventFieldList" BaseType="ua:ExtensionObject">
        <opc:Field Name="NoOfEventFields" TypeName="opc:Int32" />
        <opc:Field Name="EventFields" TypeName="ua:Variant" LengthField="NoOfEventFields" />
    </opc:StructuredType>

    <opc:StructuredType Name="StatusChangeNotification" BaseType="tns:NotificationData">
        <opc:Field Name="NoOfEventFields" TypeName="opc:Int32" />
        <opc:Field Name="EventFields" TypeName="ua:Variant" LengthField="NoOfEventFields" />
    </opc:StructuredType>
</opc:StructuredType>
<opc:StructuredType Name="SubscriptionAcknowledgement" BaseType="ua:ExtensionObject">
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="SequenceNumber" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="PublishRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfSubscriptionAcknowledgements" TypeName="opc:Int32" />
  <opc:Field Name="SubscriptionAcknowledgements" TypeName="tns:SubscriptionAcknowledgement" LengthField="NoOfSubscriptionAcknowledgements" />
</opc:StructuredType>

<opc:StructuredType Name="PublishResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfAvailableSequenceNumbers" TypeName="opc:Int32" />
  <opc:Field Name="AvailableSequenceNumbers" TypeName="opc:UInt32" LengthField="NoOfAvailableSequenceNumbers" />
  <opc:Field Name="MoreNotifications" TypeName="opc:Boolean" />
  <opc:Field Name="NotificationMessage" TypeName="tns:NotificationMessage" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="RepublishRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="RetransmitSequenceNumber" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="RepublishResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NotificationMessage" TypeName="tns:NotificationMessage" />
</opc:StructuredType>

<opc:StructuredType Name="TransferResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="NoOfAvailableSequenceNumbers" TypeName="opc:Int32" />
  <opc:Field Name="AvailableSequenceNumbers" TypeName="opc:UInt32" LengthField="NoOfAvailableSequenceNumbers" />
</opc:StructuredType>
<opc:StructuredType Name="TransferSubscriptionsRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfSubscriptionIds" TypeName="opc:Int32" />
  <opc:Field Name="SubscriptionIds" TypeName="opc:UInt32" LengthField="NoOfSubscriptionIds" />
  <opc:Field Name="SendInitialValues" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="TransferSubscriptionsResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:TransferResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteSubscriptionsRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfSubscriptionIds" TypeName="opc:Int32" />
  <opc:Field Name="SubscriptionIds" TypeName="opc:UInt32" LengthField="NoOfSubscriptionIds" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteSubscriptionsResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="BuildInfo" BaseType="ua:ExtensionObject">
  <opc:Field Name="ProductUri" TypeName="opc:String" />
  <opc:Field Name="ManufacturerName" TypeName="opc:String" />
  <opc:Field Name="ProductName" TypeName="opc:String" />
  <opc:Field Name="SoftwareVersion" TypeName="opc:String" />
  <opc:Field Name="BuildNumber" TypeName="opc:String" />
  <opc:Field Name="BuildDate" TypeName="opc:DateTime" />
</opc:StructuredType>

<opc:EnumeratedType Name="RedundancySupport" LengthInBits="32">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="Cold" Value="1" />
  <opc:EnumeratedValue Name="Warm" Value="2" />
  <opc:EnumeratedValue Name="Hot" Value="3" />
  <opc:EnumeratedValue Name="Transparent" Value="4" />
  <opc:EnumeratedValue Name="HotAndMirrored" Value="5" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="ServerState" LengthInBits="32"
<opc:StructuredType>
  <opc:StructuredType Name="ServerStatusDataType" BaseType="ua:ExtensionObject">
    <opc:Field Name="StartTime" TypeName="opc:DateTime" />
    <opc:Field Name="CurrentTime" TypeName="opc:DateTime" />
    <opc:Field Name="State" TypeName="tns:ServerState" />
    <opc:Field Name="BuildInfo" TypeName="tns:BuildInfo" />
    <opc:Field Name="SecondsTillShutdown" TypeName="opc:UInt32" />
    <opc:Field Name="ShutdownReason" TypeName="ua:LocalizedText" />
  </opc:StructuredType>
</opc:StructuredType>

<opc:StructuredType Name="SessionDiagnosticsDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="SessionId" TypeName="ua:NodeId" />
  <opc:Field Name="SessionName" TypeName="opc:String" />
  <opc:Field Name="ClientDescription" TypeName="tns:ApplicationDescription" />
  <opc:Field Name="ServerUri" TypeName="opc:String" />
  <opc:Field Name="EndpointUrl" TypeName="opc:String" />
  <opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
  <opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
  <opc:Field Name="ActualSessionTimeout" TypeName="opc:Double" />
  <opc:Field Name="MaxResponseMessageSize" TypeName="opc:UInt32" />
  <opc:Field Name="ClientConnectionTime" TypeName="opc:DateTime" />
  <opc:Field Name="ClientLastContactTime" TypeName="opc:DateTime" />
  <opc:Field Name="CurrentSubscriptionsCount" TypeName="opc:UInt32" />
  <opc:Field Name="CurrentMonitoredItemsCount" TypeName="opc:UInt32" />
  <opc:Field Name="CurrentPublishRequestsInQueue" TypeName="opc:UInt32" />
  <opc:Field Name="TotalRequestCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="UnauthorizedRequestCount" TypeName="opc:UInt32" />
  <opc:Field Name="ReadCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="HistoryReadCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="WriteCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="HistoryUpdateCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="CallCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="CreateMonitoredItemsCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="ModifyMonitoredItemsCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="SetMonitoringModeCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="SetTriggeringCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="DeleteMonitoredItemsCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="CreateSubscriptionCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="ModifySubscriptionCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="SetPublishingModeCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="PublishCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="RepublishCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="TransferSubscriptionsCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="DeleteSubscriptionsCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="AddNodesCount" TypeName="tns:ServiceCounterDataType" />
  <opc:Field Name="DeleteNodesCount" TypeName="tns:ServiceCounterDataType" />
</opc:StructuredType>
<opc:Field Name="TransferRequestCount" TypeName="opc:UInt32" />  
<opc:Field Name="TransferredToAltClientCount" TypeName="opc:UInt32" />  
<opc:Field Name="TransferredToSameClientCount" TypeName="opc:UInt32" />  
<opc:Field Name="PublishRequestCount" TypeName="opc:UInt32" />  
<opc:Field Name="DataChangeNotificationsCount" TypeName="opc:UInt32" />  
<opc:Field Name="EventNotificationsCount" TypeName="opc:UInt32" />  
<opc:Field Name="NotificationsCount" TypeName="opc:UInt32" />  
<opc:Field Name="LatePublishRequestCount" TypeName="opc:UInt32" />  
<opc:Field Name="CurrentKeepAliveCount" TypeName="opc:UInt32" />  
<opc:Field Name="CurrentLifetimeCount" TypeName="opc:UInt32" />  
<opc:Field Name="UnacknowledgedMessageCount" TypeName="opc:UInt32" />  
<opc:Field Name="DiscardedMessageCount" TypeName="opc:UInt32" />  
<opc:Field Name="MonitoredItemCount" TypeName="opc:UInt32" />  
<opc:Field Name="DisabledMonitoredItemCount" TypeName="opc:UInt32" />  
<opc:Field Name="MonitoringQueueOverflowCount" TypeName="opc:UInt32" />  
<opc:Field Name="NextSequenceNumber" TypeName="opc:UInt32" />  
<opc:Field Name="EventQueueOverFlowCount" TypeName="opc:UInt32" />  
</opc:StructuredType>

<opc:EnumeratedType Name="ModelChangeStructureVerbMask" LengthInBits="32">  
<opc:EnumeratedValue Name="NodeAdded" Value="1" />  
<opc:EnumeratedValue Name="NodeDeleted" Value="2" />  
<opc:EnumeratedValue Name="ReferenceAdded" Value="4" />  
<opc:EnumeratedValue Name="ReferenceDeleted" Value="8" />  
<opc:EnumeratedValue Name="DataTypeChanged" Value="16" />  
</opc:EnumeratedType>

<opc:StructuredType Name="ModelChangeStructureDataType" BaseType="ua:ExtensionObject">  
<opc:Field Name="Affected" TypeName="ua:NodeId" />  
<opc:Field Name="AffectedType" TypeName="ua:NodeId" />  
<opc:Field Name="Verb" TypeName="opc:Byte" />  
</opc:StructuredType>

<opc:StructuredType Name="SemanticChangeStructureDataType" BaseType="ua:ExtensionObject">  
<opc:Field Name="Affected" TypeName="ua:NodeId" />  
<opc:Field Name="AffectedType" TypeName="ua:NodeId" />  
</opc:StructuredType>

<opc:StructuredType Name="Range" BaseType="ua:ExtensionObject">  
<opc:Field Name="Low" TypeName="opc:Double" />  
<opc:Field Name="High" TypeName="opc:Double" />  
</opc:StructuredType>

<opc:StructuredType Name="EUInformation" BaseType="ua:ExtensionObject">  
<opc:Field Name="NamespaceUri" TypeName="opc:String" />  
<opc:Field Name="UnitId" TypeName="opc:Int32" />  
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />  
<opc:Field Name="Description" TypeName="ua:LocalizedText" />  
</opc:StructuredType>
<opc:StructuredType Name="ProgramDiagnostic2DataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="CreateSessionId" TypeName="ua:NodeId" />
  <opc:Field Name="CreateClientName" TypeName="opc:String" />
  <opc:Field Name="InvocationCreationTime" TypeName="opc:DateTime" />
  <opc:Field Name="LastTransitionTime" TypeName="opc:DateTime" />
  <opc:Field Name="LastMethodCall" TypeName="opc:String" />
  <opc:Field Name="LastMethodSessionId" TypeName="ua:NodeId" />
  <opc:Field Name="NoOfLastMethodInputArguments" TypeName="opc:Int32" />
  <opc:Field Name="LastMethodInputArguments" TypeName="tns:Argument" LengthField="NoOfLastMethodInputArguments" />
  <opc:Field Name="NoOfLastMethodOutputArguments" TypeName="opc:Int32" />
  <opc:Field Name="LastMethodOutputArguments" TypeName="tns:Argument" LengthField="NoOfLastMethodOutputArguments" />
  <opc:Field Name="NoOfLastMethodInputValues" TypeName="ua:Variant" LengthField="NoOfLastMethodInputValues" />
  <opc:Field Name="LastMethodInputValues" TypeName="ua:Variant" LengthField="NoOfLastMethodInputValues" />
  <opc:Field Name="NoOfLastMethodOutputValues" TypeName="opc:Int32" />
  <opc:Field Name="LastMethodOutputValues" TypeName="ua:Variant" LengthField="NoOfLastMethodOutputValues" />
  <opc:Field Name="LastMethodCallTime" TypeName="opc:DateTime" />
  <opc:Field Name="LastMethodReturnStatus" TypeName="tns:StatusResult" />
</opc:StructuredType>

<opc:StructuredType Name="Annotation" BaseType="ua:ExtensionObject">
  <opc:Field Name="Message" TypeName="opc:String" />
  <opc:Field Name="UserName" TypeName="opc:String" />
  <opc:Field Name="AnnotationTime" TypeName="opc:DateTime" />
</opc:StructuredType>

<opc:EnumeratedType Name="ExceptionDeviationFormat" LengthInBits="32">
  <opc:EnumeratedValue Name="AbsoluteValue" Value="0" />
  <opc:EnumeratedValue Name="PercentOfValue" Value="1" />
  <opc:EnumeratedValue Name="PercentOfRange" Value="2" />
  <opc:EnumeratedValue Name="PercentOfEURange" Value="3" />
  <opc:EnumeratedValue Name="Unknown" Value="4" />
</opc:EnumeratedType>

</opc:TypeDictionary>

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* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$CheckedExceptionProbe.java
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package org.immutables.value.processor;

import static org.immutables.generator.Intrinsics.*/

@java.lang.SuppressWarnings("all")
public class Generator_Immutables extends org.immutables.value.processor.Immutables {
  public org.immutables.generator.Templates.Invokable generate() { return generate; }
  private final org.immutables.generator.Templates.Invokable generate = new FragmentDispatch(0, 0);
  void _t0__generate(org.immutables.generator.Templates.Invokation __) {
    __.dl();__._ln();
    __.out(" ");
    for (final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
     for (final org.immutables.value.processor.meta.ValueType type : $in(values.values())) {
      __.dl();__._ln();
      __.out(" ");
      if ($if(type.constitution.hasTopLevelImmutable()))
      __.dl();__._ln();
      ___._ln();
      ${_, output.java, type.$$package(), type.typeImmutable().simple(), type.element, new
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl(); __ln();
        $(___. generateImmutable, type, $$true);
        __ln();
        __dl();
    }};
    __ln();
    __dl();
    __ln();
    __dl();
    __ln();
    __out("  ");
    __dl();
    if ($if(type.isGenerateWithInterface()) {
        __dl(); __ln();
        $(___. output.java, type.$$package(), type.typeWith().simple(), type.element, new
        org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
                __dl(); __ln();
                $(___. generateWithInterface, type, $$true);
                __ln();
                __dl();
            }});
        __ln();
        __out("  ");

        }
        __dl(); __ln();
        __out("  ");
        __dl();
        if ($if(type.constitution.hasTopLevelBuilder()) {
            __dl(); __ln();
            __dl(); __ln();
            $(___. output.java, type.$$package(), type.typeBuilderImpl().simple(), type.element, new
            org.immutables.generator.Templates.Fragment(0) {
                @Override public void run(org.immutables.generator.Templates.Invokation __) {
                    __dl(); __ln();
                    $(___. generateBuilder, type, $$true);
                    __ln();
                    __dl();
                }});
            __ln();
            __out("  ");

            }
            __dl(); __ln();
            __out("  ");
        }
if ($if(type.constitution.hasEnclosingNonvalue())) {
    .dl(); .ln();
    .dl(); .ln();
    $(__, output.java, type.$$package(), type.typeEnclosing().simple(), type.element, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            .dl(); .ln();
            generateEnclosing, type);
            .dl();
        });
        .ln();
        .out(" ");
    }
    .dl(); .ln();
    .out(" ");
    .dl(); _it1.index++;
    _it1.first = false;
}}
    .dl(); .ln();
    .dl();
}

org.immutables.generator.Templates.Invokable annotationsWhenTopLevel() { return annotationsWhenTopLevel; }
private final org.immutables.generator.Templates.Invokable annotationsWhenTopLevel = new FragmentDispatch(2, 1);
void _t1__annotationsWhenTopLevel(org.immutables.generator.Templates.Invocation __) {
    .dl(); final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    final java.lang.Boolean is = $if(__.param(1));
    .ln();
    .dl(); .ln();
    atGenerated, type);
    .ln();
    .dl();
    if ($if(is)) {
        .dl(); .ln();
        .dl();
        if ($if(type.generatedSuppressWarnings())) {
            .dl(); .ln();
            .out("@SuppressWarnings("");
            {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
                for (final java.lang.String k : Sin(type.generatedSuppressWarnings())) {
                    .dl(); .dl();
                    if ($if($not, _it1.first)) {
                        .dl(); .out(" ");
                        break;
                    }
                    .dl(); .out(k + ", ");
                    _it1.index++;
                    _it1.first = false;
                }
            }
        }
if ($(type, allowsClasspathAnnotation, "edu.umd.cs.findbugs.annotations.SuppressFBWarnings")) {
    __dl(); __ln();
    __out("@edu.umd.cs.findbugs.annotations.SuppressFBWarnings").ln();
}

if ($(type, allowsClasspathAnnotation, "javax.annotation.ParametersAreNonnullByDefault")) {
    __dl(); __ln();
    __out("@javax.annotation.ParametersAreNonnullByDefault").ln();
}

if ($(type, allowsClasspathAnnotation, "javax.annotation.processing.Generated")) {
    __dl(); __ln();
    __out("@javax.annotation.processing.Generated(\"org.immutables.processor.ProxyProcessor\")").ln();
} else if ($(type, allowsClasspathAnnotation, "javax.annotation.Generated")) {
    __dl(); __ln();
    __out("@javax.annotation.Generated(\"org.immutables.processor.ProxyProcessor\")").ln();
}

org.immutables.generator.Templates.Invokable packageWhenTopLevel() { return packageWhenTopLevel; }
private final org.immutables.generator.Templates.Invokable packageWhenTopLevel = new FragmentDispatch(2, 2);
void _t2__packageWhenTopLevel(org.immutables.generator.Templates.Invokation __) {
    __dl();
    final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __ln();
    __dl();
    if ($if(is)) {
        __dl(); __ln();
    }
if ($if(type.$package())) {
  __.dl();__.ln();
  __.out("package ");
  $(__, type.$package());
  __.out(";").ln();
  __.out(" ");
}
___.dl();__.ln();
___.ln();
___.dl();__.ln();
___.out("import java.lang.Object; ");ln();
___.out("import java.lang.String; ");ln();
___.out("import java.lang.Float;");ln();
___.out("import java.lang.Double;");ln();
___.out(" ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
  for (final java.lang.String starImport : $in(type.getRequiredSourceStarImports())) {
    ___.dl();__.ln();
    ___.out("import ");
    $(__, starImport);
    ___.out(";").ln();
    ___.out(" ");
    ___.dl();_it1.index++;
    _it1.first = false;
  }
}
___.dl();__.ln();
___.out(" ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
  for (final java.lang.String routine : $in(type.getImmutableCopyOfRoutines())) {
    ___.dl();__.ln();
    ___.out("import static ");
    $(__, routine);
    ___.out(".
immutableCopyOf; ");ln();
    ___.out(" ");
    ___.dl();_it1.index++;
    _it1.first = false;
  }
}
___.dl();__.ln();
org.immutables.generator.Templates.Invokable generateEnclosing() { return generateEnclosing; }

private final org.immutables.generator.Templates.Invokable generateEnclosing = new FragmentDispatch(1, 3);

void _t3__generateEnclosing(org.immutables.generator.Templates.Invocation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  $__().eachLine, type.getDebugLines();
  __ln();
  __out("/*--DEBUG---------------------------------------------------*/
  __dl();
  __dl();
  __dl();
  __dl();
}

org.immutables.generator.Templates.Invokable generateEnclosing() {
  return generateEnclosing;
}

private final org.immutables.generator.Templates.Invokable generateEnclosing = new FragmentDispatch(1, 3);

void _t3__generateEnclosing(org.immutables.generator.Templates.Invocation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  $__().eachLine, type.getDebugLines();
  __ln();
  __out("/*--DEBUG---------------------------------------------------*/")
  __dl();
  __dl();
  __dl();
  __dl();
}

org.immutables.generator.Templates.Invokable generateEnclosing() { return generateEnclosing; }

private final org.immutables.generator.Templates.Invokable generateEnclosing = new FragmentDispatch(1, 3);

void _t3__generateEnclosing(org.immutables.generator.Templates.Invocation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  $__().eachLine, type.getDebugLines();
  __ln();
  __out("/*--DEBUG---------------------------------------------------*/")
  __dl();
  __dl();
  __dl();
  __dl();
}
__.dl();__.ln();
__.out(" ");
$___.generateImmutable, v, $$false);
__.ln();
__.out(" ");
__.dl();
if ($if(v.constitution.isOutsideBuilder())) {
  _.dl();__.ln();
  _.out(" ");
  $___.generateBuilder, v, $$false);
  _.ln();
  _.out(" ");
}
__.dl();__.ln();
__.out(" ");
__.dl();
if ($if(v.isGenerateWithInterface())) {
  _.dl();__.ln();
  _.out(" ");
  $___.generateWithInterface, v, $$false);
  _.ln();
  _.out(" ");
}
__.dl();__.ln();
__.out(" ");
$___.forwardingEnclosingFactoryMethods, v);
__.ln();
__.dl();_it1.index++;
_it1.first = false;
}
__.dl();__.ln();
__.out(" ");
$___.objectsUtility, type);
__.ln();
__.dl();
if ($if($(_type.isGenerateJdkOnly(), and, _type.isUseCollectionUtility())))) {
  _.dl();__.ln();
  _.out(" ");
  $___.collectionUtility, type);
  _.ln();
}
__.dl();__.ln();
__.dl();
if ($if(_type.detectAttributeBuilders())) {
  _.dl();__.ln();
  _.dl();
  if ($if(_type.detectAttributeBuilders())) {
  _.dl();__.ln();
private final org.immutables.generator.Templates.Invokable generateImmutable = new FragmentDispatch(2, 4);
void _t4__generateImmutable(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.Boolean topLevel = $if(__.param(1));
  $(___, packageWhenTopLevel, type, topLevel);
  {
    final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    final java.util.List<org.immutables.value.processor.meta.ValueAttribute> setters = $cast(type.getSettableAttributes());
    for (final java.lang.String d : $in(type.getDocComment())) {
      $(___, d);
      _it1.index++; _it1.first = false;
    }
    if ($if(type.isUseBuilder())) {
      {
        for (final java.lang.String d : $in(type.getDocComment())) {
          $(___, d);
          $(___, "\n");
          $(___, "+");
        }
        $(___, "\n");
        $(___, "+\n");
        $(___, "\n");
        $(___, "+\n");
        $(___, "\n");
        $(___, "+\n");
        $(___, "\n");
        $(___, "+\n");
        if ($if(type.isUseBuilder())) {
          $(___, "\n");
          $(___, @link ");
          $(___, type.typeAbstract().relativeRaw());
          $(___, ";\n");
          $(___, "+\n");
          $(___, "+\n");
          $(___, "\n");
        }
      }
    }
  }
}
* Use the builder to create immutable instances:

```java
* {__, type.factoryBuilder().relativeRaw();
* ()}.
```

* Use the static factory method to create immutable instances:

```java
* {__, type.factoryOf().relativeRaw();
* ()}.
```

* Use the static factory method to get the default singleton instance:

```java
* {__, type.factoryInstance().relativeRaw();
* ()}.
```
if ($if($(type, allowsClasspathAnnotation, "javax.annotation.CheckReturnValue"))) {
    __.dl();__.ln();
    __.out(" ");
    __.dl();__.ln();
    __.out(" ");
    __.dl();
}

if ($if($(type, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
    __.dl();__.ln();
    __.out("@javax.annotation.CheckReturnValue").ln();
    __.out(" ");
}

$___.eachLine, type.passedAnnotations();
__.ln();
$___.eachLine, type.immutableTypeInjectedAnnotations();
__.ln();
$___.type.typeImmutable().access();
__.dl();
if ($if($(not, topLevel))) {
    __.dl();__.out("static ");
}

$___.out("final ");
$___.output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();__.out("class ");
        $___.type.typeImmutable().simple();
        $___.type.generics();
       __.ln();
       __.out(" ");
        $___.extendsImplements, type;
        __.dl();
    }});
   __.ln();
    __.dl();
    if ($if(type.isAnnotationType())) {
        __.dl();__.ln();
        __.out(" ");
        $___.defaultAnnotationValues, type;
       __.ln();
    }
}
if ($if($not($type.constitution.isOutsideBuilder()))) {
    __dl(); __ln();
    __dl();
    $(_. rr.staticFields(), type.getImplementedAttributes());
    __ln();

    $(_. generateImmutableMembers, type);
    __ln();
    $(_. generateLazyValues, type);
    __ln();
    $(_. generateInterning, type);
    __ln();
    $(_. generateSingletonInstance, type);
    __ln();
    $(_. parcelables.generate(), type);
    __ln();
    $(_. generateConstruction, type);
    __ln();
    __out(" ");
    $(_. generateImmutableCopyOf, type);
    __ln();
    __out(" ");
    $(_. generateSerialization, type);
    __ln();
    __out(" ");
    $(_. rr.valueHelperMethods(), type.getImplementedAttributes());
    __ln();
    __dl();

    if ($if($type.isUseBuilder(), andnot, $type.constitution.isOutsideBuilder())) {
        __dl(); __ln();
        __out(" ");
        __dl();
        if ($if($not($type.factoryBuilder().isNew()))) {
            __dl(); __ln();
            __out(" ");
            __dl();
            final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
            final java.util.List<org.immutables.value.processor.meta.ValueAttribute> parameters =
            $cast(type.getBuilderParameters());
            __dl(); __ln();
            __ln();
            __out(" /*");
            __out(" * Creates a builder for { @link ");
        }
    }
}
\begin{verbatim}
$(__, type.typeValue().relativeRaw());
__out(" ");
$(__, type.typeValue().simple());
__out("{ }").ln();
__out(" ");
$(__, javadocBuilderExample, type);
__ln();
__out(" ");
$(__, javadocGenerics, type);
__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it3 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute p : $in(parameters)) {
    __dl();__ln();
    __out(" * @param ");
$(__, p.name());
    __out(" [ @code ");
$(__, p.name());
    __out(" ] parameter");
    __dl();
    if ($if(p.isNullable())) {
        __dl();__out(" , can be [ @code null] ");
    }
    __dl();__ln();
    __out(" ");
    __dl();_it3.index++;
    _it3.first = false;
}__dl();__ln();
__out(" * @return A new ");
$(__, type.typeValue().simple());
__out(" builder").ln();
__out(" */").ln();
__out(" public static");
$(__, type.generics().def());
__out(" ");
$(__, factoryBuildStageBuilderType, type);
__out(" ");
$(__, type.factoryBuilder().applied());
__out(" ");
{final org.immutables.generator.Templates.Iteration _it3 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute p : $in(parameters)) {
    __dl();__dl();
    if ($if($not, _it3.first)) {
        __dl();__out(" , ");
    }
}
\end{verbatim}
if ($if($not, type.constitution.isOutsideBuilder())) {
    $(__, rr.staticMethods(), type.getImplementedAttributes());
    __ln();
}

{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
 for (final org.immutables.value.processor.meta.ValueType v : $in(type.nested)) {
    $(__, generateImmutable, v, $$false);
    __ln();
    if ($if(v.isGenerateWithInterface())) {
        $(__, generateWithInterface, v, $$false);
        __ln();
    }
    _it2.index++;
    _it2.first = false;
}}

if ($if(topLevel)) {
__dl();__ln();
__out(" ");
$__(__, objectsUtility, type);
__ln();

} __dl();__ln();
__dl();
if (!$if($topLevel, and, $isGenerateJdkOnly(), and, type.isUseCollectionUtility())) {
__dl();__ln();
__out(" ");
$(__, collectionUtility, type);
__ln();
}
__dl();__ln();
__dl();
if ($if(type.detectAttributeBuilders())) {
__dl();__ln();
__out(" ");
$(__, attributeBuilderTransformUtilities, type);
__ln();
}
__dl();__ln();
__out("}").ln();
__dl();__it1.index++;
__it1.first = false;
}
__dl();__ln();
__dl();
}

org.immutables.generator.Templates.Invokable extendsImplements() { return extendsImplements; }
private final org.immutables.generator.Templates.Invokable extendsImplements = new FragmentDispatch(1, 5);
void _t5__extendsImplements(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
__ln();
__dl();
if (!$if(type.isImplementing())) {
__dl();__ln();
__out(""").ln();
__dl();__it1.index++;
__it1.first = false;
}
__dl();
}
org.immutables.generator.Templates.Invokable generateSerialization() { return generateSerialization; }
private final org.immutables.generator.Templates.Invokable generateSerialization = new FragmentDispatch(1, 6);
void _t6__generateSerialization(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));

  $(___(serialVersionUID, type));
  $
  if ($if(type.serial.isSimple())) {
    __dl();__ln();
    __out("=");
    __dl();
  } else if ($if($if(type.isUseSimpleReadResolve())) {
    __dl();__ln();
    if ($if(type.isUseSingletonOnly())) {
      __dl();__ln();
      __out("return INSTANCE;").
    } else if ($if(type.isUsePrehashed(), and, type.isUseCopyConstructor())) {
      __dl();
      _generateReturnCopyRaw, type, ", ");
    __ln();
  } else if ($if(type.isUseSimpleReadResolve()) {
    __dl();__ln();
    __ln();
    __out("private Object readResolve() throws java.io.ObjectStreamException ").ln();
    __dl();
  } else if ($if(type.isUseSingletonOnly()) {
    __dl();__ln();
    __dl();__ln();
    __out("return INSTANCE;").
  } else if ($if(type.isUsePrehashed(), and, type.isUseCopyConstructor())) {
    __dl();__ln();
    _generateReturnCopyRaw, type, ", ");
    __ln();
  }
}
} else {
    __dl();__ln();
    __out("  return ");
    final org.immutables.value.processor.meta.ValueType type_validated_1881291508 = $cast(type);
    final java.lang.Boolean qualified_validated_1881291508 = $cast($false);
    final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new
    org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl();final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = this;
            __out("this");
            __dl();
        }
    };

    if ($if(type_validated_1881291508.isUseValidation())) {
        __dl();__dl();
        if ($if(qualified_validated_1881291508)) {
            __dl();$(__, type_validated_1881291508.typeImmutable().relativeRaw());
            __out(".");
        }
        __dl();__out("validate(");
        $(___, expression_validated_1881291508);
        __out(")");
    }
    else {
        __dl();$(___, expression_validated_1881291508);
    }
    __dl();
}

__out(";").ln();

}__dl();__ln();
__out(""").ln();
__out(" ");

}__dl();__ln();

if ($if(type.serial.isStructural())) {
    __dl();__ln();
    __ln();
    __out("#");ln();
    __out("" + The serialized form captures the structural content of the value object,");ln();
    __out("" + providing the ability to reconstruct values with the capability to migrate");ln();
Open Source Used In kASA v1.5  10349

__out(" * data. Uses optional, nullable, and provides flexible handling of").ln();
__out(" * collection attributes.").ln();
__out(" */").ln();
$___.atGenerated, type);
__ln();
__dl();
if ($if(type.generics())) {
  __dl();__ln();
  __out("@SuppressWarnings("unchecked")").ln();
}
__dl();__ln();
__out("private static class SerialForm");
$___.type.generics();
__out(" implements java.io.Serializable ").ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
final java.lang.Long serialVersion = $cast(type.serialVersionUID());
final java.lang.String arr = $cast("[\"]");
final java.lang.String arrri = $cast("[i]\") ;
__dl();__ln();
__out(" private static final long serialVersionUID = ");
__dl();
if ($if(serialVersion)) {
  __dl();$___.literal, serialVersion);
} else {
  __dl();__out("0L");
}
__dl();__out(";").ln();
__out(" private final String");
$___."[]");
__out(" names;").ln();
__out(" private final Object");
$___."[]");
__out(" values;").ln();
__out(" SerialForm");
$___.type.typeImmutable());
__out(" instance") .ln();
__dl();
if ($if(type.isUseSingletonOnly())) {
  __dl();__ln();
  __out(" this.names = new String");
  $___."[]");
  __out(" {};").ln();
  __out(" this.values = new Object");
  $___."[]");
  __out(" {};").ln();
}
__.out(" }").ln();
__.ln();
__.out(" Object readResolve() {").ln();
__.out(" return INSTANCE;").ln();
__.out(" }").ln();
} else {
__.dl();__.ln();
__.out(" java.util.List<String> names = new java.util.ArrayList");
$(__, asDiamond, "String");
__.out("(");
$(__, size, type.getSettableAttributes());
__.out(");").ln();
__.out(" java.util.List<Object> values = new java.util.ArrayList");
$(__, asDiamond, "Object");
__.out("(");
$(__, size, type.getSettableAttributes());
__.out(");").ln();
__.out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
__.dl();__.ln();
__.out(" ");
__.dl();
if ($if(v.isCollectionType())) {
__.dl();__.ln();
__.out(" ");
__.dl();
if ($if(v.isNullable())) {
__.dl();__.out("if (instance.");
$(__, v.names.get);
__.out("() == null) {").ln();
__.out("
names.add(\"");
$(__, v.name());
__.out("\");").ln();
__.out("
values.add(null);").ln();
__.out(" } else ");
}
__.dl();__.out("if (!instance.");
$(__, v.names.get);
__.out("().isEmpty()) {").ln();
__.out("
names.add(\"");
$(__, v.name());
__.out("\");").ln();
__.out("
values.add(instance.");
$(__, v.names.get);
__.out("().toArray());").ln();

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__.out(" }").ln();
__.out(" ");
} else if ($if(v.isMapType())) {
__.dl();__.ln();
__.out(" ");
__.dl();
if ($if(v.isNullable())) {
__.dl();__.out("if (instance.");
$(__, v.names.get);
__.out("() == null) {").ln();
__.out("
names.add(\"");
$(__, v.name());
__.out("\");").ln();
__.out("
values.add(null);").ln();
__.out(" } else ");
}
__.dl();__.out(" if (!instance.");
$(__, v.names.get);
__.out("().isEmpty()) {").ln();
__.out("
names.add(\"");
$(__, v.name());
__.out("\");").ln();
__.out("
values.add(toArray(instance.");
$(__, v.names.get);
__.out("().");
__.dl();
if ($if(v.isMultimapType())) {
__.dl();__.out("entries");
} else {
__.dl();__.out("entrySet");
}
__.dl();__.out("()));").ln();
__.out(" }").ln();
__.out(" ");
} else if ($if(v.isOptionalType())) {
__.dl();__.ln();
__.out(" if (instance.");
$(__, v.names.get);
__.out("().");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
__.dl();
if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
a_optionalPresent_767352996.isJavaslangOptional()))) {
__.dl();__.out("isDefined");

Open Source Used In kASA v1.5 10351


} else {
  __.dl();__.out("isPresent");
}

___.dl();__.out("()");

} ___.out(" ").ln();
___.out(" names.add("");
$(__, v.name());
___.out(";").ln();
___.out(" values.add(instance.");
$(__, v.names.get);
___.out("()");

{final org.immutables.value.processor.meta.ValueAttribute a_optionalGet_1683307643 = $cast(v);
  ___.dl();
  if ($if(a_optionalGet_1683307643.isJdkSpecializedOptional()) {
    __.dl();__.out("getAs");
    $(__, toUpper, a_optionalGet_1683307643.getElementType());
  } else {
    __.dl();__.out("get");
  }
}

___.dl();__.out("()");

} ___.out(");
___.out(" ");
___.out(" ");
} else if ($if(v.isNullable()) {
  ___.dl();__.ln();
  ___.out(" if (instance.");
  $(__, v.names.get);
  ___.out("() != null) ");
  ___.out(" names.add("");
  $(__, v.name());
  ___.out(";").ln();
  ___.out(" values.add(instance.");
  $(__, v.names.get);
  ___.out(" ");
  ___.out(" ");
}

) else {
  ___.dl();__.ln();
  ___.out(" names.add("");
  $(__, v.name());
}
__out("v");}).ln();
__out(" values.add(instance.");
$(__ v.names.get);
__out("()"));.ln();
__out(" ");
}
__dl();__ln();
__out(" ");
__dl();__it2.index++;
__it2.first = false;
}
__dl();__ln();
__out(" this.names = names.toArray(new String");
$(__ "[");
__out("names.size()");
$(__ "]");
__out("):").ln();
__out(" this.values = values.toArray();").ln();
__out(" ]").ln();
__ln();
__out(" Object readResolve() {").ln();
__dl();
if ($if(type.isUseBuilder())} {
__dl();__ln();
__out(" ");
$(__ type.typeBuilder());
__out(" builder = ");
$(__, castBuildStagedBuilder, type, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();$(__ type.factoryBuilder().relative());
__out("()"));
__dl();
}
__out(";").ln();
__ln();
__out(" for (int i = 0; i < names.length; i++) {").ln();
__out(" String name = names");
$(__, "]i"]");
__out(";"));.ln();
__out(" ");
[final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes()))} {
__dl();__ln();
__out(" if ("v");
$(__, v.name());
__out("v.equals(name)) {").ln();
if ($if(v.isCollectionType())) {
    __.dl();___.ln();
    __.out("    ");
    __.dl();
    if ($if(v.isNullable())) {
        __.dl();__.ln();
        __.out("      ");
        __.dl();
        __.out("    if (values");
        $___.dl();__.ln();
        __.out(" == null) {");__.ln();
        __.out("      builder.");
        $(_. arri);
        __.out("(null);"),ln();
        __.out("      continue;");ln();
        __.out("    }");ln();
        __.out("    ");
    }
    __.dl();___.ln();
    __.out("    for (Object e : toArray(values");
    $(_. arri);
    __.out(")) {"),ln();
    __.out("      builder.");
    $(_. v.names.add());
    __.out(";");
    [final java.lang.String typename_castObject_2078309443 = $cast(v.getWrappedElementType());
    __.dl();
    if ($if($($(typename_castObject_2078309443, ne, "java.lang.Object")) ) {
        __.dl();__.out("(");
        $(_. typename_castObject_2078309443);
        __.out(" ");
    }
    __.dl();
    __.out("(e);"),ln();
    __.out("    ");ln();
    __.out("  ");
} else if ($if(v.isMapType())) {
    __.dl();___.ln();
    __.out(" ");
    __.dl();
    if ($if(v.isNullable())) {
        __.dl();___.ln();
        __.out("    if (values");
        $(_. arri);
        __.out(" == null) {");ln();
}
__out("    builder.");
$___.out("(null;").ln();
__out("    continue;").ln();
__out("  }").ln();
__out("    ");
}
__dl();__ln();
__out("    ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
__dl();
if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
  __dl();__out("@javax.annotation.Nullable ");
}
__dl();
__out("Object");
$___.arr);
__out(" entries = (Object");
$___.arr);
__out(") values");
$___.arr);
__out(";").ln();
__out("    if (entries != null) {").ln();
__out("    for (int j = 0; j < entries.length; j += 2) {").ln();
__out("    ");
{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
final java.lang.String j = $cast("[j]");
final java.lang.String j1 = $cast("[j + 1]");
__dl();__ln();
__out("    builder.");
$___.v.names.put());
__out(";");
{final java.lang.String typename_castObject_2078309443 = $cast(v.getWrappedElementType());
__dl();
if ($if($(typename_castObject_2078309443, ne, "java.lang.Object")) {
  __dl();__out("(");
  $___.typename_castObject_2078309443;
  __out(" ");
}
__dl();
}
__out("entries");
$___.j);
final java.lang.String typename_castObject_2078309443 = $cast(v.getWrappedSecondaryElementType());
__dl();
if ($if($(typename_castObject_2078309443, ne, "java.lang.Object"))) {
  __dl();__out("(");
  $('_, typename_castObject_2078309443);
  __out(" ");
}
__dl();
__out("entries");
$('_, j1);
__out(");").ln();
__out(" ");
__dl()_it3.index++;
_it3.first = false;
}__dl();__ln();
__out(" ");
__out(" ");
__out(" ");
} else if ($if(v.isOptionalType())) {
  __dl();__ln();
  __out("if (values");
  $('_, arri);
  __out(" != null ) { ").ln();
  __out(" builder.");
  $('_, v.names.init);
  __out("(");
[final java.lang.String typename_castObject_2078309443 = $cast(v.getWrappedElementType());
__dl();
if ($if($(typename_castObject_2078309443, ne, "java.lang.Object"))) {
  __dl();__out("(");
  $('_, typename_castObject_2078309443);
  __out(" ");
}
__dl();
__out("values");
$('_, arri);
__out(";").ln();
__out(" ");
__out(" ");
} else if ($if(v.isNullable())) {
  __dl();
  __out("(");
  __dl()_it3.index++;
  _it3.first = false;
}
if (values != null) {
    builder.
        {final java.lang.String typename_castObject_2078309443 = $cast(v.getWrapperType());
    __.dl();
    if ($if($(typename_castObject_2078309443, ne, "java.lang.Object"))) {
        __.dl();___.out("(");
        $(_. typedef_castObject_2078309443);
        __.out(") ");
    }
    __.dl();
} else if ($if(v.isArrayType())) {
    __.dl();___.ln();
    ___.out("    builder.");
    $(_. v.names.init);
    __.out("(");
    } else {  
    __.dl();___.ln();
    __.out("    builder.");
    $(_. v.names.init);
    __.out("(");
    }
if ($if($(typename_castObject_2078309443, ne, "java.lang.Object"))) {
__.dl();__.out("(");
$(__, typename_castObject_2078309443);
__.out(") ");
}
__.dl();
}
__.out("toSingle(\"");
$(__, v.name());
__.out("\", values");
$(__, arri);
__.out("));").ln();
__.out("
");
}
__.dl();__.ln();
__.out("
continue;").ln();
__.out("
}").ln();
__.out(" ");
__.dl();_it2.index++;
_it2.first = false;
}}
__.dl();__.ln();
__.out(" }").ln();
__.out(" return builder.");
$(__, type.names().build);
__.out("();").ln();
} else {
__.dl();__.ln();
__.out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new
org.immutables.generator.Templates.Iteration();
final java.util.List<org.immutables.value.processor.meta.ValueAttribute> constructables =
$cast(type.getConstructableAttributes());
__.dl();__.ln();
__.out(" ");
{final org.immutables.generator.Templates.Iteration _it3 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(constructables)) {
__.dl();__.ln();
__.out("
");
__.dl();
if ($if($(v.isCollectionType(), or, v.isMapType()))) {
__.dl();__.ln();
__.out(" ");
$(__, createBuilderForCollection, type, v, new org.immutables.generator.Templates.Fragment(0) {

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@Override public void run(org.immutables.generator.Templates.Invocation __) {
    __.dl();__$,. v.name());
    __.out("Builder");
    __.dl();
}));
    __.ln();
    __.out("   ");
} else if ($if(v.isOptionalType())) {
    __.dl();___.ln();
    __.out("   ");
$(__, v.getType());
    __.out(" ");
$(__, v.name());
    __.out("Value = ");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalEmpty_1867206284 = $cast(v);
$(__, a_optionalEmpty_1867206284.getRawType());
    __.out(".");
    __.dl();
    if ($if(a_optionalEmpty_1867206284.isJdkOptional())) {
        __.dl();___.out("empty");
    } else if ($if($(a_optionalEmpty_1867206284.isFugueOptional(), or,
        a_optionalEmpty_1867206284.isJavaslangOptional(), or,
        a_optionalEmpty_1867206284.isJavaslangOptional())) {
        __.dl();___.out("none");
    } else {
        __.dl();___.out("absent");
    }
    __.dl();___.out("()");
}
    __.out(";").ln();
    __.out("   ");
} else {
    __.dl();___.ln();
    __.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
    __.dl();
    if ($if($s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
        __.dl();___.out("@javax.annotation.Nullable ");
    }
    __.dl();
$(__, v.getWrapperType());
    __.out(" ");
$(__, v.name());
(final java.lang.String typename_castObject_2078309443 = $cast(v.getWrappedElementType());

if ($if($(typename_castObject_2078309443, ne, "java.lang.Object"))) {
  $__dl();__out("(");
  ${__, typename_castObject_2078309443};
  __out(" "));
}
__dl();
__out("e;"),ln();
__out("   ");ln();
__out(" ");
}
else if ($if(v.isMapType())) {
  __dl();__ln();
  __out(" ");
  __dl();

if ($if(v.isNullable())) {
  __dl();__ln();
  __out(" if (values
  ${__, arri};
  __out(" == null) { "),ln();
  __out(" ");
  ${__, v.name()};
  __out("Builder = null;")\ln();
  __out(" continue;")\ln();
  __out(" ");ln();
  __out(" ");
}
__dl();__ln();
__out(" Object";
${__, arr};
__out(" entries = (Object";
${__, arr};
__out(") values";
${__, arri};
__out(" if (entries != null) { "),ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it4 = new
  org.immutables.generator.Templates.Iteration
  final java.lang.String j = $cast("[j]"));
  final java.lang.String j1 = $cast("[j + 1]"));
  __dl();__ln();
  __out(" ");}
$(__, v.name());
__out("Builder.put(");
{final java.lang.String typename_castObject_2078309443 = $cast(v.getWrappedElementType());
__dl();
if ($if($(typename_castObject_2078309443, ne, "java.lang.Object")) {
  __dl();__out("(");
  $(__, typename_castObject_2078309443);
  __out(" ");
}
__dl();
__out("entries");
$__ j);
__out(" ");
{final java.lang.String typename_castObject_2078309443 =
$cast(v.getWrappedSecondaryElementType());
__dl();
if ($if($(typename_castObject_2078309443, ne, "java.lang.Object")) {
  __dl();__out("(");
  $(__, typename_castObject_2078309443);
  __out(" ");
}
__dl();
__out("entries");
$__ j1);
__out(" ");.ln();
__out(" ");
__dl();__it4.index++;
__it4.first = false;
}
__dl();__ln();
__out(" ");.ln();
__out(" ");.ln();
__out(" ");.ln();
} else if ($if(v.isOptionalType())) {
__dl();__ln();
__out(" if (values");
$__ arri);
__out(" != null ")\.ln();
__out(" ");
$__ v.name());
__out("Value = ");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalOf_332927268 = $cast(v);
$(__, a_optionalOf_332927268.getRawType());
__out(" .");}
if (Sif($(not, a_optionalOf_332927268.isOptionalAcceptNullable()))) {
  __dl();__dl();
  if (Sif($(a_optionalOf_332927268.isFugueOptional(), or,
a_optionalOf_332927268.isJavaslangOptional()))) {
    __dl();__out("some");
  } else {
    __dl();__out("of");
  }
  __dl();} else if (Sif(a_optionalOf_332927268.isJdkOptional())) {
    __dl();__out("ofNullable");
  } else if (Sif(a_optionalOf_332927268.isFugueOptional())) {
    __dl();__out("option");
  } else if (Sif(a_optionalOf_332927268.isJavaslangOptional())) {
    __dl();__out("of");
  } else {
    __dl();__out("fromNullable");
  }
  __dl();
}__out("(");
{final java.lang.String typename_castObject_2078309443 = $cast(v.getWrappedElementType());
  __dl();
  if (Sif($(typename_castObject_2078309443, ne, "java.lang.Object"))) {
    __dl();__out("(");
    $(__, typename_castObject_2078309443);
    __out(") ");
  }
  __dl();
}__out("values");
${(__, arri)};
__out(";").ln();
__out(""").ln();
__out(" ");
} else if (Sif$(v.isNullable(), or, v.isArrayType())) {
  __dl();__ln();
  __out(" ");
  $(__, v.name());
  __out("Value = ");
  {final java.lang.String typename_castObject_2078309443 = $cast(v.getWrapperType());
   __dl();
   if (Sif$(typename_castObject_2078309443, ne, "java.lang.Object"))) {

$.out("    ");
$.type.typeValue().relative();
$.out(" instance = ");
$.type.factoryOf().relative();
$.out("(");
$.output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();
        for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
            __.dl();
            if ($if($(not, __.it3.first))) {
                __.dl();
                __.out(",");
            }
            __.dl();
            __.ln();
            __.out("        ");
            __.dl();
            if ($if($(v.isCollectionType(), or, v.isMapType()))) {
                __.dl();
                if ($if(v.isNullable())) {
                    __.dl();
                    $__().v.name();
                    __.out("Builder == null ? null : ");
                } else {
                    __.dl();
                    __.v.name();
                    __.out("Value");
                }
            } else {
                __.dl();
                __.v.name();
                __.out("Value");
            }
            __.dl();
            __.it3.index++;
            __.it3.first = false;
        }
        __.dl();
        __.out(";" );
    }
})
$.ln();
$.out("    ");
$.ln();
}.out("    ");
```java
$(__, type.typeValue().relative());
__.out(" instance = ");
$(__, type.factoryInstance().relative());
__.out("();").ln();
__.out(" ");

} else {
    __dl();__.ln();
    __out(" ");
    $(__, output.error, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();__.out("Cannot generate code when there are no builder, constructor or singleton available");
    __dl();
}));
    __ln();
    __out(" ");
}

} __dl();__.ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute o :
$in(type.getWithSettableAfterConstruction())) {
        __dl();__.ln();
        __out(" ");
        __dl();
        if ($if($(o.isCollectionType(), or, o.isMapType())) {
            __dl();__.ln();
            __out(" instance = instance.");
            $(__, o.names.with);
            __out("()");
            __dl();
            if ($if(o.isNullable())) {
                __dl();$___.name();
                __out("Builder == null ? null : ");
            }
        } else {
```
__dl();__ln();
__out("if (\n");
$___.o.name();
__out("Value != null) {\n");__ln();
__out("instance = instance.\n");__ln();
$___.o.names.with();
__out("\n");
$___.o.name();
__out("Value;\n");__ln();
__out("\n");__ln();
___it3.index++;__ln();
_it3.first = false;
}
__dl();__ln();
__out("return instance;\n");__ln();
__out("\n");__ln();
__dl();__it2.index++;__ln();
it2.first = false;
}
__dl();__ln();

__dl();__ln();
__out("\n");__ln();
__out("private static Object toSingle(String attribute, Object value) {\n");__ln();
__out("if (value instanceof Object\n");__ln();
$___.arr();
__out(") {\n");__ln();
__out("Object\n");__ln();
$___.arr();
__out("elements = (Object\n");__ln();
$___.arr();
__out("value;\n");__ln();
__out("if (elements.length == 1) {\n");__ln();
__out("return elements;\n");__ln();
$___."[0]\n");
__out("\n");__ln();
__out("\n");__ln();
__out("throw new ");__ln();
$___.type.getThrowForInvalidImmutableState());
__out(""Cannot extract scalar value for attribute \n\n"\n");__ln();
__out(" + attribute + \n\n from array of length \n + elements.length);\n");__ln();
if ($if(type.hasSettableCollection())) {
    __dl();).__ln();
    __ln();
    __out(" private static Object");
    $(__, arr);
    __out(" toArray()");
    {final org.immutables.value.processor.meta.HasStyleInfo $atNullable_105894042 = $cast(type);
     __dl();
    if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
        __dl();).__out("@javax.annotation.Nullable");
    }
    __dl();
}
.__out(" Object value) {}").ln();
.__out(" if (value == null) {}").ln();
.__out(" return new Object");
$(__, arr);
.__out(" {};").ln();
.__out(" {};").ln();
.__out(" if (value instanceof Object");
$(__, arr);
.__out(" {};").ln();
.__out(" return (Object");
$(__, arr);
.__out(" value;");.ln();
.__out(" {}").ln();
.__out(" return new Object");
$(__, arr);
.__out(" value;");.ln();
.__out(" {};").ln();
.__out(" ");

}
__dl();.__ln();
__out(" ");
__dl();
if ($if(type.hasSettableMapping())) {
    __dl();.__ln();
    __ln();
    __out(" private static Object");
    $(__, "["");
    __out(" toArray(java.util.Collection<? extends java.util.Map.Entry<?, ?>> entries) {}").ln();
```java
    Object"
    "[[";
    data = new Object
    entries.size() * 2"
    "]";
    \n    int p = 0;\n    for (java.util.Map.Entry<?, ?> e : entries) {\n      data
      p++
      = e.getKey();\n      data
      p++
      = e.getValue();\n    }\n    return data;\n  }\n}
\nprivate Object writeReplace() {\n  return new SerialForm
  \n  private Object writeReplace() {\n  }
```

org.immutables.generator.Templates.Invokable generateWithInterface() { return generateWithInterface; }
private final org.immutables.generator.Templates.Invokable generateWithInterface = new FragmentDispatch(2, 7);
void _t7__generateWithInterface(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.Boolean topLevel = $if(__.param(1));
  __.ln();
  $(__, packageWhenTopLevel, type, topLevel);
  __.ln();
  __.ln();
  $(__, annotationsWhenTopLevel, type, topLevel);
  __.ln();
  $(__, type.typeWith().access());
  __.out("interface ");
  $(__, type.typeWith().simple());
  $(__, type.generics());
  __.out(" ").ln();
  __.out(" ");
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
     __.dl();___.ln();
     __.out(" ");
     __.dl();
     if ($if(v.isArrayType())) {
       __.dl();___.ln();
       __.out(" /**").ln();
       __.out(" * Copy the current immutable object with elements that replace the content of ");
       {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
        __.ln();
        __.out(" ").ln();
        __.out(" ");
        [final org.immutables.value.processor.meta.ValueAttribute a_sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw];
      }
      __.out(".").ln();
      __.out(" * The array is cloned before being saved as attribute values.").ln();
      __.out(" * @param elements The non-null elements for ");
      $(__, v.name());
      __.ln();
      __.out(" * @return A modified copy of [ @code this ] object").ln();
      __.out(" * ").ln();
      __.out(" ");
      [final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);]
      __.dl();
      if ($if(a_deprecation_286924011.deprecated)) {
        __.dl();___.out("@Deprecated");
      }
    }
    __.out(" ");
  }
  __.out(" ");
}$(__, type.typeAbstract().relative());
@code this\).\ln();
__out(" * @param elements An iterable of ");
$___.v.name();
__out(" elements to set").ln();
__out(" * @return A modified copy of [ @code this] object").ln();
__out(" */").ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
  __dl();__out("@Deprecated");
}
__dl();
__ln();
__out(" ");
$___.type.typeAbstract().relative();
__out(" ");
$___.v.names.with;
__out("(Iterable<");
$___.v.getConsumedElementType();
__out("-> elements");\ln();
__out(" ");
} else if ($if(v.isOptionalType())) {
  __dl();__ln();
  __ln();
  __out(" */*").ln();
  __out(" * Copy the current immutable object by setting a <i>present</i> value for the optional ");
  {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
__dl();
}$(_. sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" attribute.").ln();
__out(" * @param value The value for ");
$___.v.name();
__dl();
if ($if(v.isOptionalAcceptNullable())) {
  __dl();__out(" , [ @code null] is accepted as [ @code ");
  {final org.immutables.value.processor.meta.ValueAttribute a_optionalEmpty_1867206284 = $cast(v);
$(__, a_optionalEmpty_1867206284.getRawType());
  __.out(";");
  __.dl();
  if ($if(a_optionalEmpty_1867206284.isIdkOptional())) {
    __.dl();___.out("empty");
  } else if ($if($a_optionalEmpty_1867206284.isFugueOptional(), or,
            a_optionalEmpty_1867206284.isJavaslangOptional())) {
    __.dl();___.out("none");
  } else {
    __.dl();___.out("absent");
  }
  __.dl();___.out("()");
$
(__, a_optionalEmpty_1867206284.getRawType());
  __.out(";");
  __.dl();
  if ($if(a_optionalEmpty_1867206284.isIdkOptional())) {
    __.dl();___.out("empty");
  } else if ($if($a_optionalEmpty_1867206284.isFugueOptional(), or,
            a_optionalEmpty_1867206284.isJavaslangOptional())) {
    __.dl();___.out("none");
  } else {
    __.dl();___.out("absent");
  }
  __.dl();___.out("()");
}$
(__, a_unwrappedOptionalType_1615308684.getUnwrappedElementType());

```java
  /**
   * Copy the current immutable object by setting an optional value for the 
   * A shallow reference equality check on the optional value is used to prevent copying of the same 
   * value by returning [@code this].
   * @param optional A value for 
   * @return A modified copy of [@code this] object
   */
  }
}

if ($if(a_deprecation_286924011.deprecated)) {
  __dl();__out("@Deprecated");
}

$___.out(" attribute.").ln();
$___.out(" A shallow reference equality check on the optional value is used to prevent copying of the same 
value by returning [@code this].").ln();
$___.v.name());
$___.ln();
$___.out(" @return A modified copy of [@code this] object").ln();
$___.out(" */").ln();
$___.out(" ");
final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
$___.dl();
if ($if(a_deprecation_286924011.deprecated)) {
  __dl();__out("@Deprecated");
}

$___.type.typeAbstract().relative());
$___.out(" ");
$___.v.names.with);
$___.out("(");
$___.v.getRawType());
$___.dl();
if ($if($not, v.isJdkSpecializedOptional()))) {
  __dl();__out("<");
  $___.v.getConsumedElementType());
  __out(">");
}
$___.dl();__out(" optional;").ln();
$___.out(" ");
} else if ($if(v.isMapType())) {
  __dl();__ln();
  __out(" ");

{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
final java.lang.String gE = $cast(v.getConsumedElementType());
```
final java.lang.String uK = $cast(v.getUnwrappedElementType());
final java.lang.String wK = $cast(v.getWrappedElementType());
final java.lang.String uV = $cast(v.getUnwrappedSecondaryElementType());
final java.lang.String wV = $cast(v.getWrappedSecondaryElementType());

__.dl();__.ln();
__.ln();
__.out("/**").ln();
__.out("* Copy the current immutable object by replacing the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__.out("* map with the specified map.").ln();
__.out("* Nulls are not permitted as keys or values.").ln();
__.out("* A shallow reference equality check is used to prevent copying of the same value by returning
[@code this].").ln();
__.out("* @param entries The entries to be added to the ");
$__ v.name();
__.out("map").ln();
__.out("* @return A modified copy of [@code this] object").ln();
__.out("*/").ln();
__.out(";");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__.dl();
if ($if(a_deprecation_286924011.deprecated)) {
  __.dl();__.out("@Deprecated");
}
___.dl();
}
__.ln();
__.out("*");
$___.type.typeAbstract().relative();
__.out("*");
$___.v.names.with();
__.out("(");
__.dl();
if ($if(v.isMultimapType())) {
  __.dl();$___.guava;$___.collect.Multimap"");
} else {
  __.dl();__.out("java.util.Map");
}
___.dl();__.out("<");
$___.gE;__.out("", ? extends ");
$(__, wV);
__out("> entries;"),ln();
__out(" ");
__dl();__it2.index++;
__it2.first = false;
}
__dl();__ln();
__out(" ");
}
} else {
__dl();__ln();
__ln();
__out(" /*").ln();
__out(" * Copy the current immutable object by setting a value for the ");
final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" attribute.").ln();
__out(" ");
__dl();
if ($if($(v.isPrimitive(), andnot, v.isFloatType())) { 
__dl();__ln();
__out(" * A value equality check is used to prevent copying of the same value by returning {@code 
this}."),ln();
__out(" ");
} else if ($if($(not, v.isPrimitive()))) {
__dl();__ln();
__out(" * A shallow reference equality check is used to prevent copying of the same value by returning 
{@code this}."),ln();
__out(" ");
}
__dl();__ln();
__out(" @param value A new value for ");
$___.v.name();
__dl();
if ($if(v.isNullable()) {
__dl();__out(" (can be {@code null})");
}
__dl();__ln();
__out(" * @return A modified copy of the {@code this} object"),ln();
__out(" */"),ln();
__out(" ");
final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {

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go
___.dl();___out("@Deprecated");
}
___.dl();
}
___ln();
___out(" ");
$(___, type.typeAbstract().relative());
___out(" ");
$(___, v.names.with);
___out("(");
$(___, v.atNonNullability());
$(___, v.getType());
___out(" value");).ln();
___out(" ");
}
___.dl();___ln();
___out(" ");
___.dl();__it1.index++;
__it1.first = false;
}
___.dl();___ln();
___out(" ");
___.dl();

org.immutables.generator.Templates.Invokable generateJsonWithUnsupported() { return generateJsonWithUnsupported; }

private final org.immutables.generator.Templates.Invokable generateJsonWithUnsupported = new FragmentDispatch(1, 8);

void _t8__generateJsonWithUnsupported(org.immutables.generator.Templates.Invokation __) {
___.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
___ln();
___.dl();

if ($if(type.isGenerateWithInterface())) {
___.dl();___ln();
___.dl();___ln();
___out(" ");
{final org.immutables.generator.Templates.Iteration __it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
___.dl();___ln();
___out(" ");
___.dl();

if ($if(v.isArrayType())) {
___.dl();___ln();
___out("@Override"),ln();

{final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
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if (Sif(v.isMultimapType())) {
    __dl();$___.guava;
    __out(“.collect.Multimap”);
} else {
    __dl();___.out(“java.util.Map”);
}
__dl();___.out(“<”);
$___.gE;
___.out(“, ? extends ”);
$___.wV;
___.out(“> entries) { throw new UnsupportedOperationException(); }”).ln();
___.out(“ ”);
___.dl();___.it2.index++;
___.it2.first = false;
}
___.dl();___.ln();
___.out(" ");

} else {
___.dl();___.ln();
___.out(“@Override”).ln();
___.out(“public ”);
$___.type.typeAbstract().relative();
___.out(“ ”);
$___.v.names.with();
___.out(“”);
$___.v.atNullability();
$___.v.getType();
___.out(“value) { throw new UnsupportedOperationException(); }”).ln();
___.out(" ");
}
___.dl();___.ln();
___.out(" ");
___.dl();___.it1.index++;
___.it1.first = false;
}
___.dl();___.ln();
__dl();
}

org.immutables.generator.Templates.Invokable generateInterning() { return generateInterning; }
private final org.immutables.generator.Templates.Invokable generateInterning = new FragmentDispatch(1, 9);
void _t9__generateInterning(org.immutables.generator.Templates.Invocation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __dl();
  __dl();
  if ($if($(!type.isUseStrongInterned(), or, type.isGenerateOrdinalValue()))) {
    __dl();
    __out(" ");
    __dl();
    __if($(!type.isUseSingletonOnly())) {
      __dl();
      __ln();
      __dl();
      if ($if($(!type.isUseSingletonOnly()))) {
        __dl();
        __ln();
        __out(" ");
        $(__, atGenerated, type);
        __ln();
        __out(" private static class InternProxy ");
        __ln();
        __out(" final ");
        $(__, type.typeImmutable().relativeRaw());
        __ln();
        __out(" instance;");
        __ln();
        __ln();
        __out(" InternProxy()");
        $(__, type.typeImmutable().relativeRaw());
        __ln();
        __out(" this.instance = instance; ");
        __ln();
        __ln();
        __out(" @Override");
        __ln();
        __out(" public boolean equals()");
        _final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(type);
        __dl();
        if ($if($(!s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
          __dl();
          __out(" @javax.annotation.Nullable");
          __ln();
        }
        __out(" another != null && instance.equalTo(((InternProxy) another).instance); ");
        __ln();
        __out(" ");
        __ln();
        __out(" @Override");
        __ln();
        __out(" public int hashCode()");
        __ln();
        __out(" return instance.hashCode(); ");
        __ln();
      }
    }
  }
}

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if ($if(type.isGenerateOrdinalValue())) {
  __dl();__ln();
  __ln();
  __out("/**").ln();
  __out(" * Copy constructor used for interning of objects implementing" ).ln();
  __out(" * {@link org.immutables.ordinal.OrdinalValue}  ").ln();
  __out(" */").ln();
  __out(" private ");
$(__, type.typeImmutable().simple());
  __out("("");
$(__, type.typeImmutable().relative());
  __out(" instance, int ordinal) { ").ln();
  __out(" ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getImplementedAttributes())) {
  __dl();__ln();
  __out(" this.");
$(__, v.name());
  __out(" = instance.");
$(__, v.name());
  __out(";").ln();
  __out(" ");
  __dl();_it1.index++;
  _it1.first = false;
}
  __dl();__ln();
  __out(" ");
  __dl();
} if ($if(type.isUsePrehashed())) {
  __dl();__ln();
  __out(" this.hashCode = instance.hashCode;").ln();
  __out(" ");
}
  __dl();__ln();
  __out("  this.domain = instance.domain;").ln();
  __out("  this.ordinal = ordinal;").ln();
  __out(" ");
  __ln();
```java
__.out(" */").ln();
__.out("    public static Domain get() {").ln();
__.out("      return INSTANCE;");).ln();
__.out(" }").ln();
__.out("   }").ln();
__.ln();
__.out("  @Override").ln();
__.out("  public org.immutables.ordinal.OrdinalDomain<");
$(__, type.typeAbstract());
__.out(" > domain() {").ln();
__.out("    return domain;").ln();
__.out(" }").ln();
} else if ($if(type.isUseSingletonOnly())) {
    __dl();__dl();__ln();
} else if ($if(type.isUseInterned())) {
    __dl();__ln();
    __ln();
    __out("    ");
    __dl();

if ($if(type.isGenerateJdkOnly())) {
    __dl();__ln();
    __out("   ");
    __dl();

if ($if(type.isUseWeakInterned())) {
    __dl();__ln();
    __out(" private static final java.util.Map<");
$(__, type.typeImmutable().simple());
    __out(" , java.lang.ref.WeakReference<");
$(__, type.typeImmutable().simple());
    __out(" >> INTERNER =");).ln();
    __out("    new java.util.WeakHashMap<>()").ln();
    __out("    ");
}
else {
    __dl();__ln();
    __out("    private static final java.util.concurrent.ConcurrentHashMap<InternProxy, ");
$(__, type.typeImmutable().relative());
    __out("    INTERNER =");).ln();
    __out("    new java.util.concurrent.ConcurrentHashMap<InternProxy, ");
$(__, type.typeImmutable().relative());
    __out("();").ln();
    __out("    ");
}
    __dl();__ln();
    __out("   ");
} else {
```

---

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```
if ($if(type.isUseWeakInterned())) {
  __dl(); __ln();
  __out(" private static final ");
  ((___.guava).collect.Interner<
    __, type.typeImmutable().relative().
  > INTERNER =
  ((___.guava).collect.Interners.newWeakInterner());
  __out(" ");
} else {
  __dl(); __ln();
  __out(" private static final ");
  ((___.guava).collect.Interner<InternProxy> INTERNER =
  ((___.guava).collect.Interners.newStrongInterner());
  __out(" ");
}
__dl(); __ln();
__out(" ");

org.immutables.generator.Templates.Invokable generateConstruction() { return generateConstruction; }
private final org.immutables.generator.Templates.Invokable generateConstruction = new FragmentDispatch(1, 10);
void _t10__generateConstruction(org.immutables.generator.Templates.Invokation __) {
  __dl(); final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  __dl();
  if ($if($if(type.isUseConstructor(), andnot, type.factoryOf().isNew()))) {
    __dl(); __ln();
    __out(" ");
    __dl();
    if ($if(type.requiresAlternativeStrictConstructor())) {
      __dl(); __ln();
      __ln();
/**
 * Construct a new immutable `{code } instance.
 * {code javadocGenerics, type}
 *
 * @param {code } The value for the {code } attribute
 * @return An immutable {code }
 */

public static {code type.generics().spaceAfter();
{code type.typeValue()};
{code type.names().of};
{code ""};

}
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
    __.dl();___.dl();
    if ($if($not, _it1.first)) {
        __.dl();___.out(",
    }
    __.dl();___.dl();
    if ($if(v.requiresAlternativeStrictConstructor())) {
        __.dl();___.out("(");
        $(__, constructorAcceptType, v);
        __.out(") ");
    }
    __.dl();$(__, v.name());
    __.dl();_it1.index++;
    _it1.first = false;
}
___.dl();___.out(");).ln();
___.out("  ");ln();
___.out("  ");

}
___.dl();___.ln();
___.ln();
___.out(" /**");ln();
___.out("  * Construct a new immutable {code ");
$(__, type.name());
___.out("] instance.");ln();
$(__, javadocGenerics, type);
___.ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
   __.dl();___.ln();
   ___.out("  * @param ");
   $(__, v.name());
   ___.out(" The value for the {code ");
   $(__, v.name());
   ___.out("] attribute");ln();
   __.dl();_it1.index++;
   _it1.first = false;
}
___.dl();___.ln();
___.out("  * @return An immutable ");
$(__, type.name());
___.out(" instance");ln();
___.out(" */");ln();
___.out("  public static ");
$(__, type.generics().spaceAfter());
$(__, type.typeValue());
    __out(" ");
$(__, type.names().of);
    __out("(");
    {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
        __dl();__dl();
        if ($if($(not, _it1.first))) {
            __dl();__out(" , ");
        }
        __dl();$(__, v.atNullability());
        $(__, eachLine, v.constructorParameterInjectedAnnotations());
        $(__, constructorAcceptType, v);
        __out(" ");
        $(__, v.name());
        __dl();_it1.index++;
        _it1.first = false;
    }
    __dl();__out(" ) {
        return 
            {final org.immutables.value.processor.meta.ValueType type_validated_1881291508 = $cast(type);
            final java.lang.Boolean qualified_validated_1881291508 = $cast($$false);
            final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new org.immutables.generator.Templates.Fragment(0) {
                @Override public void run(org.immutables.generator.Templates.Invokation __) {
                    __dl();final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = this;
                    __out(" new ");
                    $(__, type.typeImmutable().relativeRaw());
                    $(__, type.generics().diamond());
                    __out(" ");
                    {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
                    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
                        __dl();__dl();
                        if ($if($(not, _it1.first))) {
                            __dl();__out(" , ");
                        }
                        __dl();$(__, v.name());
                        __dl();_it1.index++;
                        _it1.first = false;
                    }
                    __dl();__out(" ");
                    __dl();
                };
            };
            if ($if(type_validated_1881291508.isUseValidation())) {
                __dl();__dl();
                if ($if(qualified_validated_1881291508)) {
__dl();$___.type_validated_1881291508.typeImmutable().relativeRaw();
__out(".");

}
__dl();__out("validate(");
$___.expression_validated_1881291508;
__out(")");

} else {
__dl();$___.expression_validated_1881291508;

}
__dl();
__out(";").ln();
__out("  ");.ln();
__dl();
if ($if(type.isUseOptionalAcceptNullableConstructor())) {
__dl();__ln();
__ln();
__out("  /**").ln();
__out("   * Construct a new immutable { @code ");
$___.type.name();
__out(" } instance.").ln();
__out("  ");
$___.javadocGenerics, type);
__ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
__dl();__ln();
__ln();
__out("   * @param ");
$___.v.name());
__out(" The value for the { @code ");
$___.v.name());
__out(" } attribute".ln();
__dl();_it1.index++;  _it1.first = false;
}}
__dl();__ln();
__out("   * @return An immutable ");
$___.type.name();
__out(" instance".ln();
__out("   */").ln();
__out("   public static ");
$___.type.generics().spaceAfter();
$___.type.typeValue());
__out(" ");
$(__, type.names().of);
__out("(");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
  __dl();
  if ($if($not, _it1.first)) {
    __dl();
    __out(",");
  }
  __dl();
  __dl();
  __dl();$(__, v.atNullability());
  __dl();$(__, eachLine, v.constructorParameterInjectedAnnotations());
  __dl();
  if ($if(v.isOptionalType())) {
    __dl();
    final org.immutables.value.processor.meta.ValueAttribute a_unwrappedOptionalType_1615308684 = $cast(v);
    __dl();
    if ($if(a_unwrappedOptionalType_1615308684.isOptionalType(), and,
        a_unwrappedOptionalType_1615308684.isOptionalAcceptNullable())) {
      __dl();
      __dl();$(__, atNullable, a_unwrappedOptionalType_1615308684);
      __dl();
    } else {
      __dl();
      __dl();$(__, a_unwrappedOptionalType_1615308684.getUnwrappedElementType());
    }
  } else {
    __dl();$(__, constructorAcceptType, v);
  }
  __dl();__out(" ");
  __dl();__out(" ");__out(" ");__out(" ");__out(" ");__dl();__out(" ");__out(" ");__out(" ");__out(" ");
} __dl();__out(")");

{final org.immutables.value.processor.meta.ValueType type_validated_1881291508 = $cast(type);
final java.lang.Boolean qualified_validated_1881291508 = $cast($$false);
final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new
org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();
    final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = this;
    __out("new ");
    $(__, type.typeImmutable().relativeRaw());
    $(__, type.generics().diamond());
(final org.immutables.generator.Templates.Iteration _it1 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
  __.dl();___.dl();
  if ($if(__(not, _it1.first))) {
    __.dl();___.dl();
    __.dl():$___.___.out(" ");
  }
  __.dl():$___.v.name();
  __.dl();_it1.index++;
  _it1.first = false;
}
___.dl();___.dl();
if ($if(type_validated_1881291508.isUseValidation())) {
  __.dl();___.dl();
  if ($if(qualified_validated_1881291508)) {
    __.dl();$___.type_validated_1881291508.typeImmutable().relativeRaw();
    __.out(" ");
  }
  __.dl();___.dl();
  ___.dl():___.out("validate");
  $(___.expression_validated_1881291508);
  ___.out(" ");
} else {
  __.dl():$___.expression_validated_1881291508;
  __.dl();
  __.out(" ").ln();
  __.out(" ").ln();
  __.out(" ");
}
___.dl();___.ln();
___.dl();___.ln();
if ($if(type.isUseValidation())) {
  __.dl();___.ln();
  __.dl();
  if ($if(type.isUseJavaValidationApi())) {
    __.dl();___.ln();
    __.dl();
    if ($if(type.isUseJaxB())) {
      __.dl();___.ln();
      __.dl();
      if ($if(type.isUseJson()) {
        __.dl();___.ln();
        __.dl();
      }
    }
    if ($if(type.isUseHibernate())) {
      __.dl();___.ln();
      __.dl();
    }
  }
}
__.ln();
__.out("  private static final javax.validation.Validator ");
$(__, disambiguateField, type, "validator");
__.out(" = javax.validation.Validation.buildDefaultValidatorFactory().getValidator;").ln();
}
__.dl();__.ln();
__.ln();
__.ln();
__.out("  private static ");
$(__, type.generics().spaceAfter());
$(__, type.typeImmutable().relative());
__.out(" validate(");
$(__, type.typeImmutable().relative());
__.out(" instance) ");.ln();
__.dl();
if (!$if(type.isUseJavaValidationApi())) {
  __.dl();__.ln();
  __.out("    java.util.Set<javax.validation.ConstraintViolation<");
  $(__, type.typeImmutable().relative());
  __.out(">> constraintViolations = ");
  $(__, disambiguateField, type, "validator");
  __.out(" validate(instance);").ln();
  __.out("    if (!constraintViolations.isEmpty()) {".ln();
  __.out("      throw new javax.validation.ConstraintViolationException(constraintViolations);".).ln();
  __.out("    }".).ln();
}
__.dl();__.ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueType.ValidationMethod vm : $in(type.validationMethods)) {
  __.dl();__.ln();
  __.out("  ");
  __.dl();
  if (!$if(vm.normalize)) {
    __.dl();__.ln();
    __.out("    instance = (");
    $(__, type.typeImmutable().relative());
    __.out(" instance.");
    $(__, vm.name);
    __.out("();").ln();
    __.out(" ");
  } else {
    __.dl();__.ln();
    __.out("    instance.");
    $(__, vm.name);
    __.out("();").ln();
    __.out(" ");
  }
}
}__.dl();__.ln();
___.dl();__.ln();
___.dl();_.it1.index++;
_.it1.first = false;
}
___.dl();__.ln();
___.dl();
if ($if(type.isUseSingletonOnly())) {
___.dl();__.ln();
___.out(" return INSTANCE != null ? INSTANCE : instance;");
___.dl();__.ln();
} else if ($if(type.isGenerateOrdinalValue())) {
___.dl();__.ln();
___.out(" return (");
$.__, type.typeImmutable().relative();
___.out(" instance.domain.internOrdinal(new InternProxy(instance));").ln();
} else if ($if(type.isUseInterned())) {
___.dl();__.ln();
___.out(" ");
___.dl();
if ($if(type.isGenerateJdkOnly())) {
___.dl();__.ln();
___.out(" ");
___.dl();
if ($if(type.isUseWeakInterned())) {
___.dl();__.ln();
___.out(" synchronized (INTERNER) ").ln();
___.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(type);
___.dl();
if ($if($s(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
___.dl();___.out("@javax.annotation.Nullable ");
}
___.dl();
___.out(" java.lang.ref.WeakReference<");
$.__, type.typeImmutable().relative();
___.out(" > reference = INTERNER.get(instance);").ln();
___.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(type);
___.dl();
if ($if($s(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
___.dl();___.out("@javax.annotation.Nullable ");
}
___.dl();
___.out(" java.lang.ref.WeakReference<");
$.__, type.typeImmutable().relative();
___.out(" > reference = INTERNER.get(instance);").ln();
___.out(" ");
}
} else {
    __dl();__ln();
    __out(" ");
    if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
        __dl();__out("@javax.annotation.Nullable ");
    }
    __dl();
}
} else {
    __dl();__ln();
    __out(" ");
    if ($if(type.isUseWeakInterned())) {
        __dl();__ln();
        __out(" return INTERNER.intern(instance); ");
        __out(" ");
    } else {
        __dl();__ln();
        __out(" return INTERNER.intern(new InternProxy(instance)).instance; ");
        __out(" ");
    }
}
__dl();__ln();
__out(" ");
private final org.immutables.generator.Templates.Invokable generateSingletonInstance = new FragmentDispatch(1, 11);

void _t11__generateSingletonInstance(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __ln();
    __dl();
    if ($if(type.isUseSingleton())) {
        __dl();__ln();
        __out(" private static final ");
       __$().typeImmutable().relative();
        __out(" INSTANCE = ");
        {final org.immutables.value.processor.meta.ValueType type_validated_1881291508 = $cast(type);
final java.lang.Boolean qualified_validated_1881291508 = $cast($$false);
final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new
org.immutables.generator.Templates.Fragments(0) {
  @Override public void run(org.immutables.generator.Templates.Invocation __) {
    __dl(); final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = this;
    $(__, type.typeImmutable().relativeRaw());
    __out("(");
    __dl();
  };
  __dl();
  if ($if(type_validated_1881291508.isUseValidation())) {
    __dl();
    if ($if(qualified_validated_1881291508)) {
      __dl();
      $(__, type_validated_1881291508.typeImmutable().relativeRaw());
      __out(".");
    }
    __dl();
    __out("validate(");
    $(__, expression_validated_1881291508);
    __out(")");
  } else {
    __dl();
    $(__, expression_validated_1881291508);
  }
  __dl();
}
__out(";").ln();
__ln();
__out("/**").ln();
__out(" * Returns the default immutable singleton value of {
    @code ");
$(__, type.name());
__out("}");
__ln();
__out(" * @return An immutable instance of ");
$(__, type.name());
__ln();
__out(" */").ln();
__out(" public static ");
$(__, type.typeValue().relative());
__out(" ");
$(__, type.names().instance);
__out("{ ").ln();
__out(" return INSTANCE; ").ln();
__out(" "}").ln();
}
__dl();
__ln();
__dl();
org.immutables.generator.Templates.Invokable generateImmutableCopyOf() { return generateImmutableCopyOf; }

private final org.immutables.generator.Templates.Invokable generateImmutableCopyOf = new FragmentDispatch(1, 12);

void _t12__generateImmutableCopyOf(org.immutables.generator.Templates.Invokation ___) {
___dl();final org.immutables.value.processor.meta.ValueType type = $cast(___param(0));
___ln();
___dl();
if ($if(!$type.isUseCopyConstructor(), andnot, type.constitution.isImplementationHidden())) {
___dl();___ln();
___ln();
___out("/**").ln();
___out(" * Creates an immutable copy of a [@link]");
$___.type.typeAbstract().relativeRaw();
___out(" ] value.").ln();
___out(" * Uses accessors to get values to initialize the new immutable instance.").ln();
___out(" * If an instance is already immutable, it is returned as is.").ln();
$___.javadocGenerics, type);
___ln();
___out(" * @param instance The instance to copy").ln();
___out(" * @return A copied immutable ");
$___.type.name());
___out(" instance").ln();
___out(" */").ln();
___dl();
if ($if(!$not, type.constitution.isImplementationPrimary())) {
___dl();___out("public ");
}
___dl();___out("static");
$___.type.generics().def());
___out(" ");
$___.type.typeValue().relative());
___out(" ");
$___.type.factoryCopyOf().applied());
___out("()");
$___.type.typeAbstract().relative());
___out(" instance ").ln();
___out(" if (instance instanceof ");
$___.type.typeImmutable().relativeRaw());
$___.type.generics().unknown);
___out(" ").ln();
___out(" return ");
$___.type.typeImmutable().relative());
___out(" instance;").ln();
___out(" ").ln();
___dl();
if ($if(type.isUseBuilder())) {
    __.dl();___.ln();
    __.out(" return ");
}$(__, castBuildStagedBuilder, type, new org.immutables.generator.Templates.Fragment(0) {
    __.dl();$(__, type.factoryBuilder(), relative());
    __.out("()");
    __.dl();
});
__.ln();
__.out(" ");
___.dl();
if ($if(type.isGenerateBuilderFrom())) {
    __.dl();___.ln();
    __.out(".");
}$(__, type.names().from);
    __.out("(instance)"),ln();
    __.out(" ");
} else {
    __.dl();___.ln();
    __.out(" ");
}final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
    __.dl();___.ln();
    __.out(" ");
    if ($if(v.isEncoding())) {
        __.dl();___.ln();
        __.out(".");
    )$(__, rr.builderCopyFrom(), v);
        __.out("((instance.");
    $(__, v.names.get);
        __.out("()"),ln();
        __.out(" ");
    } else if ($if(v.isNullable())) {
        __.dl();___.ln();
        __.out(".");
    )$(__, v.names.init);
        __.out("((instance.");
    $(__, v.names.get);
        __.out("()"),ln();
        __.out(" ");
    } else if ($if(v.isCollectionType())) {
        __.dl();___.ln();
        __.out(".");
    )$(__, v.names.addAll);
        __.out("((instance.");
}
$(__, v.names.get);
__out("()"),ln();
__out("    ");
} else if ($if(v.isMapType())) {
__dl();__ln();
__out("    ");
$__ v.names.putAll();
__out("(instance.");
$__ v.names.get();
__out("())"),ln();
__out("    ");
}
__dl();__ln();
__out("    ");
__dl();__it1.index++;_
it1.first = false;
}
__dl();__ln();
__out("    ");
__dl();__ln();
__out("    ");
$__ type.names().build();
__out("()"),ln();
} else {
__dl();__ln();
__out("    ");
$__ type.factoryOf().relative();
__out("()");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
__dl();__dl();
if ($if($not, _it1.first)) {
__dl();__out("    ");
}
}
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{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(positions.longs())) {
  __dl();__ln();
  __out(" ");
  {final org.immutables.value.processor.meta.ValueType type_jsonIgnore_782971179 = $cast(type);
   __dl();
   if ($if(type_jsonIgnore_782971179.isGenerateJacksonIngoreFields())) {
    __dl();__out("@com.fasterxml.jackson.annotation.JsonIgnore");
   }
  __dl();
  __ln();
  __out(" ");
  $___.eachLine, type.syntheticFieldsInjectedAnnotations();
  __ln();
  __out(" ");
  {final org.immutables.value.processor.meta.ValueType type_hiddenMutableState_1091893888 = $cast(type);
   __dl();
   if ($if($(type_hiddenMutableState_1091893888, allowsClasspathAnnotation,
    "com.google.errorprone.annotations.Immutable"))) {
    __dl();__out("@SuppressWarnings("Immutable")");
   }
  __dl();
  __ln();
  __out(" private transient volatile long lazyInitBitmap");
  $(__, emptyIfZero, l.index);
  __out(";").ln();
  __out(" ");
  __dl();_it3.index++;
  _it3.first = false;
}
__dl();__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute l : $in(lz)) {
  final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($(positions, l));
  __dl();__ln();
  __out(" ");
  final org.immutables.generator.Templates.Invokable maskConstantName = new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();final org.immutables.generator.Templates.Invokable maskConstantName = this;
      $(__, toConstant, l.name());
      __out("_LAZY_INIT_BIT");
      __dl();
    }
  }
}}
}
final org.immutables.generator.Templates.Invokable bitmapFieldName = new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();final org.immutables.generator.Templates.Invokable bitmapFieldName = this;
        __.out("lazyInitBitmap");
        __.dl();
    }
};

final org.immutables.generator.Templates.Invokable lazyVar = new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();final org.immutables.generator.Templates.Invokable lazyVar = this;
        __.out("lazy");
        __.dl();
    }
};

private static final long maskConstantName = literal.hex(pos.mask);

{final org.immutables.value.processor.meta.ValueType type_jsonIgnore_782971179 = $cast(type);
    if ($if(type_jsonIgnore_782971179.isGenerateJacksonIgnoreFields())) {
        __.dl();___.out("@com.fasterxml.jackson.annotation.JsonIgnore");
    }
}

{final org.immutables.value.processor.meta.ValueType type_hiddenMutableState_1091893888 = $cast(type);
    if ($if($(type_hiddenMutableState_1091893888, allowsClasspathAnnotation, "com.google.errorprone.annotations.Immutable"))) {
        __.dl();___.out("@SuppressWarnings("Immutable")");
    }
}
private transient final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(l);

/**
 * @inheritDoc
 * <p>
 * Returns a lazily initialized value of the
 * attribute. Initialized once and only once and stored for subsequent access with proper
 * synchronization.
 * In case of any exception or error thrown by the lazy value initializer,
 * the result will not be memoised (i.e. remembered) and on next call computation
 * will be attempted again.
 * @return A lazily initialized value of the}

 org.immutables.generator.Templates.Iteration _it4 = new
 org.immutables.generator.Templates.Iteration();
 for (final java.lang.String t : $in(l.getThrownCheckedExceptions())) {
   if (undelying {} will throw it.
   _it4.first = false;
 })

  * @Override
  */

  @Overr...
if ($if(l.getThrownCheckedExceptions())) {
    __.dl();__.ln();
    __.out(" ");
    $(__, l.getAccess());
    $(__, l.getType());
    __.out(" ");
    $(__, output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __.dl();$___.l.names.get();
            __.out("()"),ln();
            __.out(" throws ");
            {final org.immutables.generator.Templates.Iteration _it4 = new org.immutables.generator.Templates.Iteration();
                for (final java.lang.String t : $in(l.getThrownCheckedExceptions())) {
                    __.dl();___.dl();
                    if ($if($not, _it4.first)) {
                        __.dl();___.out(" ");
                    }
                    __.dl();___.out(" ");
                    __.out(" ");
                    ___.ln();
                    __.out(" ");
                }
            }
        }
    });
    __.ln();
    __.out(" ");
} else {
    __.dl();___.ln();
    __.out(" ");
    $(__, l.getAccess());
    $(__, l.getType());
    __.out(" ");
    $(__, l.names.get());
    __.out("()"),ln();
    __.out(" ");
}

    __.dl();___.ln();
    __.out(" if (");
    $(__, bitmapFieldName);
    __.out(" & ");
    $(__, maskConstantName);
    __.out(" == 0 {"),ln();
    __.out(" synchronized (this) {"),ln();
    __.out(" if (");
__dl();_it3.index++;  
_it3.first = false; 
} 
__dl();__ln();  
__out(" ");  
__dl();__it2.index++;  
_it2.first = false;  
} 
__dl();
} 
__dl();__ln();  
__dl();__it1.index++;  
_it1.first = false;  
} 
__dl();__ln();  
__dl();
};

org.immutables.generator.Templates.Invokable castBuildStagedBuilder() { return castBuildStagedBuilder; } 
private final org.immutables.generator.Templates.Invokable castBuildStagedBuilder = new FragmentDispatch(2, 14);
void _t14__castBuildStagedBuilder(org.immutables.generator.Templates.Invokation __) {  
__dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));  
final java.lang.String expression = __.param(1).toString();  
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();  
final org.immutables.value.processor.meta.TelescopicBuild tb = $cast(type.getTelescopicBuild());  
__dl();__dl();  
if ($if($(tb, andnot, type.getInnerBuilder().isExtending))) {  
__dl();__out("(");  
$(__, type.typeBuilderImpl().relative());  
__out(" ");  
$(__, expression);  
__out(")");  
} else {  
__dl();$(__, expression);  
}
__dl();__dl();__it1.index++;  
_it1.first = false; 
} 
__dl();__dl();
};

org.immutables.generator.Templates.Invokable factoryBuildStageBuilderType() { return factoryBuildStageBuilderType; } 
private final org.immutables.generator.Templates.Invokable factoryBuildStageBuilderType = new FragmentDispatch(1, 15);
void _t15__factoryBuildStageBuilderType(org.immutables.generator.Templates.Invokation __) {
    __dl(); final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
     final org.immutables.value.processor.meta.TelescopicBuild tb = $cast(type.getTelescopicBuild());
     __dl(); __dl();
     if ($if(tb)) {
         __dl(); $(__, toUpper, tb.firstStage().attribute.name());
         __out("BuildStage");
         $(__, type.generics().args());
     } else {
         __dl(); $(__, type.typeBuilderImpl().relative());
     }
     __dl(); __dl(); _it1.index++;
     _it1.first = false;
    }
    __dl(); __dl();
}

org.immutables.generator.Templates.Invokable telescopicBuilderImplementInterfaces() { return telescopicBuilderImplementInterfaces; }
private final org.immutables.generator.Templates.Invokable telescopicBuilderImplementInterfaces = new FragmentDispatch(1, 16);
void _t16__telescopicBuilderImplementInterfaces(org.immutables.generator.Templates.Invokation __) {
    __dl(); final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
     final org.immutables.value.processor.meta.TelescopicBuild tb = $cast(type.getTelescopicBuild());
     __dl(); __dl();
     if ($if(tb)) {
         __dl(); {final org.immutables.generator.Templates.Iteration _it2 = new
     org.immutables.generator.Templates.Iteration();
     for (final org.immutables.value.processor.meta.TelescopicBuild.TelescopicStage nt : $in(tb.stages)) {
         final org.immutables.value.processor.meta.ValueAttribute v = $cast(nt.attribute);
         __dl(); $(__, toUpper, v.name());
         __out("BuildStage");
         $(__, type.generics().args());
         __out(",");
         __dl(); _it2.index++;
         _it2.first = false;
     }
     __dl(); __out("BuildFinal");
     $(__, type.generics().args());
     }
     __dl(); __dl(); _it1.index++;
     _it1.first = false;
    }
private final org.immutables.generator.Templates.Invokable generateTelescopicBuilderInterfaces = new
FragmentDispatch(1, 17);

void _t17__generateTelescopicBuilderInterfaces(org.immutables.generator.Templates.Invokation __) {
  __.dl();
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __.ln();
  { final org.immutables.generator.Templates.Iteration __it1 = new org.immutables.generator.Templates.Iteration();
    final org.immutables.value.processor.meta.TelescopicBuild tb = $cast(type.getTelescopicBuild());
    __.dl();
    __.ln();
    __.dl();
    if ($if(tb)) {
      __.dl();
      { final org.immutables.generator.Templates.Iteration __it2 = new org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.TelescopicBuild.TelescopicStage nt : $in(tb.stages)) {
          final org.immutables.generator.Templates.Invokable builderReturn = new org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
              __.dl();
              if ($if(nt.next)) {
                __.dl();
                __.dl();
                __.ln();
                __.out("BuildStage");
                $(__.type.generics().args());
              } else {
                __.dl();
                __.out("BuildFinal");
                $(__.type.generics().args());
              }
            }
          };
          __.dl();
          __.ln();
          __.ln();
          $(__.atGenerated, type);
          __.ln();
          __.out("public interface ");
          $(__.toUpper, v.name());
          __.out("BuildStage");
          $(__.type.generics());
          __.out(" ").ln();
          __.out(" /*").ln();
          __.out(" * Initializes the value for the ");
        }
      }
    } else {
      __.dl();
      __.out("BuildFinal");
      $(__.type.generics().args());
    }
  }
}
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

})
__out("  ").ln();
__out("   * @param ");
$__ (v.name());
__out(" The value for ");
$__ (v.name());
__out(" ");
__dl();
if (Sif(v.isNullable())) {
  __dl();__out("(can be [code null])");
}
__dl();__ln();
__out("   * @return [code this] builder for use in a chained invocation").ln();
__out("   */").ln();
__out("   ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  __dl();
  if (Sif(a_deprecation_286924011.deprecated)) {
    __dl();__out("@Deprecated");
  }
  __dl();
}__ln();
__out("   ");
$__ (builderReturn);
__out("   ");
$__ (v.names.init);
__out("()");
$__ (v.getType());
__out(" ");
$__ (v.name());
__out(";").ln();
__out(" ");
__dl();_it2.index++;
_it2.first = false;
}
__dl();__ln();
__ln();
$(__, atGenerated, type);
__ln();
__out("public interface BuildFinal");
$__ (type.generics());
__out(" ").ln();
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(tb.finals)) {
  __dl(); __ln();
  __dl();
  if ($if(v.isEncoding())) {
    __dl(); __ln();
    __out(" ");
    __dl(); __ln();
  } else if ($if(v.isCollectionType())) {
    __dl(); __ln();
    __ln();
    __out(" /**").ln();
    __out(" * Adds one element to ");
    final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
    $__sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

    __dl();
    __out(" ");
    $__toLower, v.getRawCollectionType();
    __out(".").ln();
    __out(" * @param element A ");
    $__v.name();
    __out(" element").ln();
    __out(" * @return [{@code this} builder for use in a chained invocation]");
    __out(" */").ln();
    __out(" ");
    final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
    __dl();
    if ($if(a_deprecation_286924011.deprecated)) {
      __dl(); __out("@Deprecated");

    }
    __dl();
  }
  __ln();
  __out(" BuildFinal");
  $__type.generics().args();
  __out(" ");
  $__v.names.add();
  __out(" ");
  $__v.getUnwrappedElementType();
  __out(" element;");
  __ln();
  __ln();
  __out(" /**").ln();
  __out(" * Adds elements to ");
  final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
  $__sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}

}
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```
___.out(" ");
$___.toLowerCase, v.getRawCollectionType();
___.out(".").ln();
___.out(" * @param elements An array of ");
$___. v.getName();
___.out(" elements").ln();
___.out(" * @return { @code this} builder for use in a chained invocation").ln();
___.out(" */").ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = ___.cast(v);
  ___.do{};
  if ($if(a_deprecation_286924011.deprecated)) {  
    ___.do{};___.out("@Deprecated");
    
  }
  ___.do{};
}
___.ln();
___.out(" BuildFinal");
$___. type.generics().args();
___.out(" ");
$___. v.getName().addv();
___.out(" ");
$___. v.getUnwrappedElementType();
___.out("... elements");).ln();
___.ln();
___.out(" //*").ln();
___.out(" * Adds elements to ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = ___.cast(v);
  ___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw;
  
}
___.out(" ");
$___.toLowerCase, v.getRawCollectionType();
___.out(".").ln();
___.out(" * @param elements An iterable of ");
$___. v.getName();
___.out(" elements").ln();
___.out(" * @return { @code this} builder for use in a chained invocation").ln();
___.out(" */").ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = ___.cast(v);
  ___.do{};
  if ($if(a_deprecation_286924011.deprecated)) {  
    ___.do{};___.out("@Deprecated");
    
  }
  ___.do{};
}
```
_.ln();
_.out("  BuildFinal");
$(_. type.generics().args());
_.out(" ");
$(_. v.names.addAll());
_.out("(Iterable<");
$(_. v.getConsumedElementType());
_.out("> elements;").ln();
} else if ($if(v.isOptionalType())) {
  _.ln();
  _.ln();
  _.out("  /**");
  {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
   __, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

  }_.out(" to ");
$(_. v.name());
_.out(".").ln();
_.out("  * @param ");
$(_. v.name());
_.out(" The value for ");
$(_. v.name());
_.dl();
if ($if(v.isOptionalAcceptNullable())) {
  _.dl();_.out(",[@code null] is accepted as [@code ");
  {final org.immutables.value.processor.meta.ValueAttribute a_optionalEmpty_1867206284 = $cast(v);
  __, a_optionalEmpty_1867206284.getRawType());
  _.dl();
  if ($if(a_optionalEmpty_1867206284.isJdkOptional())) {
    _.dl();_.out("empty");
  } else if ($if(a_optionalEmpty_1867206284.isFugueOptional(), or,
    a_optionalEmpty_1867206284.isJavaslangOptional())) {
    _.dl();_.out("none");
  } else {
    _.dl();_.out("absent");
  }
  _.dl();_.out("()");
  }
  _.out(" ");
}
__dl();__ln();
__out(" * @return {@code this} builder for chained invocation"),ln();
__out(" */"),ln();

{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  __dl();
  if ($if(a_deprecation_286924011.deprecated)) {
    __dl();__out("@Deprecated");
  }
  __dl();
  __ln();
  __out(" BuildFinal");
  $___.type.generics().args();
  __out(" ");
  $___.v.names.init;
  __out(" ");
  {final org.immutables.value.processor.meta.ValueAttribute a_unwrappedOptionalType_1615308684 = $cast(v);
    __dl();
    if ($if($a_unwrappedOptionalType_1615308684.isOptionalType(), and,
      a_unwrappedOptionalType_1615308684.isOptionalAcceptNullable())) {
      __dl();$___.atNullable, a_unwrappedOptionalType_1615308684;
      $___.a_unwrappedOptionalType_1615308684.getWrappedElementType();
    } else {
      __dl();$___.a_unwrappedOptionalType_1615308684.getUnwrappedElementType();
    }
    __dl();
    __ln();
    __out(" ");
    $___.v.name();
    __out(" ");.ln();
    __ln();
    __out(" /**< ");.ln();
    __out(" * Initializes the optional value ");
    {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
      $___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw;
    }
    __out(" to ");
    $___.v.name();
    __out(" ");.ln();
    __out(" * @param ");
    $___.v.name();
    __out(" The value for ");}
```java
$___.ln();
__.ln();
__.out("   * @return {@code this} builder for use in a chained invocation").ln();
__.out("   */").ln();
__.out("   ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  ___.dl();
  if ($if(a_deprecation_286924011.deprecated)) {
    ___.dl();_.out("@Deprecated");
  }
  ___.dl();
  ___.ln();
  ___.out(" BuildFinal");
  $___.type.generics().args();
  ___.out(" ");
  $___.v.names.init();
  ___.out("(");
  $___.v.getRawType();
  ___.dl();
  if ($if(!$(not, v.isJdkSpecializedOptional()))) {
    ___.dl();__.out("<");
    $(___.v.getConsumedElementType());
    ___.out(">");
  }
  ___.dl();__.out(" ");
  $(___.v.name());
  ___.out(";");.ln();
} else if ($if(v.isMapType())) {
  ___.dl();__.ln();
  {final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
    final java.lang.String gE = $cast(v.getConsumedElementType());
    final java.lang.String uK = $cast(v.getUnwrappedElementType());
    final java.lang.String wK = $cast(v.getWrappedElementType());
    final java.lang.String uV = $cast(v.getUnwrappedSecondaryElementType());
    final java.lang.String wV = $cast(v.getWrappedSecondaryElementType());
    ___.dl();__.ln();
    ___.out(" ");
    ___.dl();
    if ($if(v.isMultimapType())) {
      ___.dl();__.ln();
      ___.out(" ");
      ___.dl();
      if ($if(v.isMultimapType())) {
        ___.dl();__.ln();
        ___.ln();
        ___.out(" /*");.ln();
        __.out(" * Put all mappings from the specified key to values for ");
```

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```java
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" ");
$__toLower, v.isMapType();
__out(" . Nulls are not permitted").ln();
__out("   * @param key The key for ");
$__v.name();
__ln();
__out("   * @param values The values for ");
$__v.name();
__ln();
__out("   * @return { @code this} builder for use in a chained invocation").ln();
__out("   */").ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
    __dl();__out("@Deprecated");
}
}
__dl();
}
__ln();
__out(" BuildFinal");
$__type.generics().args();
__out(" ");
$__v.names.putv();
__out("(");
__$uK;
__out(" key, ");
__$uV;
__out("... values;")\.ln();
__ln();
__out(" /**").ln();
__out("   * Put all mappings from the specified key to values for ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" ");
$__toLower, v.isMapType();
__out(" . Nulls are not permitted").ln();
__out("   * @param key The key for ");
$__v.name();
__ln();
__out("   * @param values The values for ");
```
$_($v.name());
__ln();
__.out("  * @return {code} builder for use in a chained invocation").ln();
__.out("  */").ln();
__.out("  ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
  __dl();__out("@Deprecated");
}
__dl();
__ln();
__.out("  BuildFinal");
$_(type.generics().args());
__.out("  ");
$_(v.names.putAll());
__.out("  ");
$_(uK);
__.out("  key, Iterable<");
$_(wV);
__.out("  > values").ln();
__.out("  ");
}
__dl();__ln();
__.ln();
__.out("  /**").ln();
__.out("  * Put one entry to the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$_(sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__.out("  map.").ln();
__.out("  * @param key The key in the ");
$_(v.name());
__.out("  map").ln();
__.out("  * @param value The associated value in the ");
$_(v.name());
__.out("  map").ln();
__.out("  * @return {code} builder for use in a chained invocation").ln();
__.out("  */").ln();
__.out("  ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
  __dl();__out("@Deprecated");
}
$(__, v.names.put());
__out("(");
$(__, uK);
__out(" key, ");
$(__, uV);
__out(" value");ln();
__ln();
__out(" /**");ln();
__out(" * Put one entry to the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" map. Nulls are not permitted").ln();
__out(" * @param entry The key and value entry").ln();
__out(" * @return [@code this] builder for use in a chained invocation").ln();
__out(" */").ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
  __dl();__out("@Deprecated");
}

__dl();
__ln();
__out(" BuildFinal");
$(__, type.generics().args());
__out(" ");
$(__, v.names.put());
__out("(java.util.Map.Entry<");
$(__, gE);
__out("", ? extends ");
$(__, wV);
__out("> entry");ln();
__ln();
__out(" /**").ln();
__out(" * Put all mappings from the specified map as entries to ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
__out(" map. Nulls are not permitted").ln();
__out("  * @param entries The entries that will be added to the ");
$___.v.name();
__out(" map").ln();
__out("  * @return [ @code this ] builder for use in a chained invocation").ln();
__out(" */").ln();
__out(" ");
}

{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
___.dl();
if ($if(a_deprecation_286924011.deprecated)) {
  ___.dl();___.out("@Deprecated");
}
___.dl();
___.ln();
___.out(" BuildFinal");
$___.type.generics().args();
___.out(" ");
$___.v.names.putAll();
___.out("(");
___.dl();
if ($if(v.isMultimapType())) {
  ___.dl();$___.guava;
  ___.out(".collect.Multimap");
} else {
  ___.dl();___.out("java.util.Map");
}
___.dl();___.out("<");
$___.gE;
___.out(" , ? extends ");
$___.wV;
___.out("> entries;").ln();
___.out(" ");
___.dl();_it3.index++;
_it3.first = false;
}
___.dl();___.ln();
} else if ($if(v.isArrayType())) {
  ___.dl();___.ln();
  ___.ln();
  ___.out("/**").ln();
  ___.out("  * Initializes the value for the ");
}
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

}  
__out(" attribute.").ln();  
__out(" ");  
__dl();  
if ($if(v.isGenerateDefault)) {  
__dl();__ln();  
__out(" * <p><em>If not set, this attribute will have a default value as returned by the initializer of ");  
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);  
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
}  
__out("</em>").ln();  
__out(" ");  
}  
__dl();__ln();  
__out(" * @param ");  
$(__, v.name());  
__out(" The value for ");  
$(__, v.name());  
__out(" ");  
__dl();  
if ($if(v.isNullable())) {  
__dl();__out("(can be {@code null})");  
}
}  
__dl();__ln();  
__out(" * @return {@code this} builder for use in a chained invocation").ln();  
__out(" */").ln();  
__out(" ");  
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);  
__dl();  
if ($if(a_deprecation_286924011.deprecated)) {  
__dl();__out("@Deprecated");  
}
}  
__dl();  
__ln();  
__out(" BuildFinal");  
$(__, type.generics().args());  
__out(" ");  
$(__, v.names.init);  
__out("()");  
$(__, v.atNullability());  
$(__, v.getType());
org.immutables.generator.Templates.Invokable generateBuilder() { return generateBuilder; }

private final org.immutables.generator.Templates.Invokable generateBuilder = new FragmentDispatch(2, 18);

void _t18__generateBuilder(org.immutables.generator.Templates.Invokation __) {
  __dl();__ln();
  __dl();_it1.index++; _it1.first = false;
}

org.immutables.generator.Templates.Invokable generateBuilder() { return generateBuilder; }

private final org.immutables.generator.Templates.Invokable generateBuilder = new FragmentDispatch(2, 18);

void _t18__generateBuilder(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.Boolean topLevel = $if(__.param(1));
  __ln();
  $(__, packageWhenTopLevel, type, topLevel);
  __ln();
final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();

final java.util.List<org.immutables.value.processor.meta.ValueAttribute> setters =
$cast(type.getSettableAttributes());

final java.util.List<org.immutables.value.processor.meta.ValueAttribute> getters =
$cast(type.getImplementedAttributes());

final java.util.List<org.immutables.value.processor.meta.ValueAttribute> mandatories =
$cast(type.getMandatoryAttributes());

final java.util.List<org.immutables.value.processor.meta.ValueAttribute> nondefaults =
$cast(type.getRequiresTrackedIsSetNonMandatoryAttributes());

final org.immutables.value.processor.meta.LongBits.LongPositions positions = $cast($($longsFor, mandatories));

final org.immutables.value.processor.meta.LongBits.LongPositions nondefaultsPositions = $cast($($longsFor, nondefaults));

if ($if(type.kind().isFactory())) {
    __.dl();___.ln();
    ___.ln();
    ___.out("/**").ln();
    __.dl();
    if ($if($type.kind().isFactory())) {
        __.dl();___.ln();
        ___.out(" */ [@code ");
        ___.out($(__.type.typeBuilderImpl().simple()));
        ___.out("] collects parameters and invokes the static factory method:").ln();
        ___.out(" */ [@code ");
        ___.out($(__.type.factoryOf()));
        ___.out("(...)".).ln();
        ___.out(" * Call the { @link ");
        ___.out($(__.type.names().build));
        ___.out("} method to get a result of type { @code ");
        ___.out($(__.type.typeValue()));
        __.out(" ").ln();
    } else {
        __.dl();___.ln();
        ___.out(" * Builds instances of type { @link ");
        ___.out(" ");
        ___.out($(__.type.typeValue().relativeRaw()));
        __.out(" ");
        __.out($(__.type.typeValue().simple()));
        __.out(" ").ln();
        __.out(" * Initialize attributes and then invoke the { @link ");
        __.out($(__.type.names().build));
        __.out("} method to create an".).ln();
        __.out(" * immutable instance.").ln();
    }
}

___.dl();___.ln();
___.out(" * <p><em>[@code ");
___.out("] is not thread-safe and generally should not be stored in a field or collection,").ln();
___.out(" * but instead used immediately to create instances.<em>").ln();
\__ln();
\__dl();\__ln();
\__out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute m : \in(mandatories)) {
final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($\in(positions, m));
\__dl();\__ln();
\__out(" private static final long INIT_BIT_");
\$(__, toConstant, m.name());
\__out(" = ");
\$(__, literal.hex, pos.mask);
\__out(";").ln();
\__out(" ");
\__dl();_it2.index++;
_it2.first = false;
}
\__dl();\__ln();
\__out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute p : \in(nondefaults)) {
final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($\in(nondefaultsPositions, p));
\__dl();\__ln();
\__out(" private static final long OPT_BIT_");
\$(__, toConstant, p.name());
\__out(" = ");
\$(__, literal.hex, pos.mask);
\__out(";").ln();
\__out(" ");
\__dl();_it2.index++;
_it2.first = false;
}
\__dl();\__ln();
\__out(" ");
\$(__, rr.builderStaticFields(), setters);
\__ln();
\__out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.LongBits.LongSet l : \in(positions.longs())) {
\__dl();\__ln();
\__out(" private long initBits = ");
\$(__, eachLine, type.syntheticFieldsInjectedAnnotations());
\__ln();
\__out(" private long ");
\$(__, disambiguateField, type, "initBits");
\$(__, emptyIfZero, l.index);
\__out(" = ");}
$(__, literal.hex, l.occupation);
  __.out("",").ln();
  __.out(" ");
  __.dl();_it2.index++;
  _it2.first = false;
}
___.dl();___.ln();
___.out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(nondefaultsPositions.longs())) {
  ___.dl();___.ln();
  ___.out(" ");
  ___.dl();___.ln();
  ___.out(" private long ");
  $(__, disambiguateField, type, "optBits");
  $(__, emptyIfZero, l.index);
  ___.out(";").ln();
  ___.out(" ");
  __.dl();_it2.index++;
  _it2.first = false;
}
___.dl();___.ln();
___.out(" ");
___.dl();
if ($if($(positions.longs(), or, nondefaultsPositions.longs()))) {
  ___.dl();___.dl();___.ln();
  ___.ln();
  ___.out(" ");
}
___.dl();___.ln();
___.out(" ");
$___.rr.builderFields(), setters);
___.ln();
___.out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
  if ($if(!v.isEncoding())) {
    ___.dl();___.ln();
    ___.out(" ");
    $(__, defineOrResetBuildingFieldAlt, v, $true, v.isNullCollector());
    ___.ln();
    ___.out(" ");
    __.dl();_it2.index++;
    _it2.first = false;
  }}
}
___.dl();___.ln();
if ($if(type.isGenerateOrdinalValue())) {
    __.dl();__.ln();
    __.out(" ");
    $(_. eachLine, type.syntheticFieldsInjectedAnnotations());
    __.ln();
    __.out(" private Domain domain = Domain.get();").ln();
    __.out(" ");
}
___.dl();__.ln();
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
 final java.lang.Boolean useFactoryMethod = $cast($not, type.factoryBuilder().isNew());
 __.dl();__.ln();
 __.out(" ");
 {final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
 final java.util.List<org.immutables.value.processor.meta.ValueAttribute> parameters =
 $cast(type.getBuilderParameters());
 __.dl();__.ln();
 ___.ln();
 __.out(" ");
 __.dl();
 if ($if($not, useFactoryMethod)) {
 __.dl();__.ln();
 __.out(" /**").ln();
 __.dl();
 if ($if(type.kind().isFactory())) {
 __.dl();__.ln();
 __.out(" * Creates a @code ");
 $(_. type.typeBuilderImpl().simple());
 __.out(" } factory builder.").ln();
 } else {
 __.dl();__.ln();
 __.out(" * Creates a builder for @link ");
 $(_. type.typeValue().relativeRaw());
 __.out(" ");
 $(_. type.typeValue().simple());
 __.out(" } instances.").ln();
 }
 ___.dl();__.ln();
 __.out(" ");
 $(_. javadocBuilderExample, type);
 __.ln();
 {final org.immutables.generator.Templates.Iteration _it4 = new
 org.immutables.generator.Templates.Iteration();
 }
for (final org.immutables.value.processor.meta.ValueAttribute p : $in(parameters)) {
    __dl();__ln();
    __out(" * @param ");
    $(__, p.name());
    __out(" { @code ");
    $(__, p.name());
    __out(" } parameter");
    __dl();
    if ($if(p.isNullable())) {
        __dl();__out(" , can be { @code null }");
    }
    __dl();__ln();
    __dl();_it4.index++;
    _it4.first = false;
}__dl();__ln();
__out(" */").ln();
__out(" ");

__dl();__ln();
__out(" ");
__dl();
if ($if(useFactoryMethod)) {
    __dl();__out(" private ");
}
else {
    __dl();$(__, type.typeBuilderImpl().access());
}

__dl();$(__, type.typeBuilderImpl().simple());
__out(" ");
{final org.immutables.generator.Templates.Iteration _it4 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute p : $in(parameters)) {
    __dl();__dl();
    if ($if($(not, _it4.first))) {
        __dl();__out(" , ");
    }
    __dl();$(__, p.atNullability());
    $(__, constructorAcceptType, p);
    __out(" ");
    $(__, p.name());
    __dl();_it4.index++;
    _it4.first = false;
}}
__dl();__out(" ").ln();
if (!$if(type.getInnerBuilder().isExtending)) {
    if (!$if(!(this instanceof 
        $(__, type.typeBuilder().relativeRaw());
    $(__, type.generics().unknown);
    $(__, type.factoryBuilder().relative());
    $(__, type.typeBuilder().relative());
    $(__, type.typeBuilder().relative());
    $(__, type.typeBuilder().relative());
    $(__, type.typeBuilder().relative());
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    $(__, type.typeBuilder().rela
if (v.isBuilderParameter)) {
    .dl(); .ln();
    .out("    ");
    .dl();
    .dl(); .ln();
    .out("    ");
    $(_, v.names.addAll());
    .out("(");
    $(_, v.name());
    .out("); ").ln();
    .out("    ");
}

} else if (v.isMapType())) {
    .dl(); .ln();
    .out("    ");
    $(_, v.names.putAll());
    .out("(");
    $(_, v.name());
    .out("); ").ln();
    .out("    ");
}

} else {
    .dl(); .ln();
    .out("    ");
    $(_, v.names.init);
    .out("(");
    $(_, v.name());
    .out("); ").ln();
    .out("    ");
}

}; .ln();

}; .ln();

}; .ln();

}; .ln();

}; .ln();

}; .ln();

}; .ln();

}; .ln();

}; .ln();

} else if ($(parameters, andnot, type.kind().isFactory())) {
    .dl(); .ln();
    .out("  ");
    .dl();
    .dl(); .ln();
    .out("  ");
    .dl(); .it4.index++;
    ;it4.first = false;
} }
__.out(" ");
__.dl();
if ($if(useFactoryMethod)) {
__.dl();__.out("private ");
}
__.dl();$(__, type.typeBuilderImpl().simple());
__.out("() {").ln();
__.out(" ");
__.dl();
if ($if(type.getInnerBuilder().isExtending)) {
__.dl();__.ln();
__.out(" if (!(this instanceof ");
$(__, type.typeBuilder().relativeRaw());
$(__, type.generics().unknown);
__.out(")) {").ln();
__.out("
throw new UnsupportedOperationException(\"Use: ");
$(__, type.factoryBuilder().relative());
__.out("()\");").ln();
__.out(" }").ln();
__.out(" ");
}
__.dl();__.ln();
__.out(" }").ln();
__.out(" ");
}
__.dl();__.ln();
__.out(" ");
__.dl();
if ($if(useFactoryMethod)) {
__.dl();__.ln();
__.dl();
if ($if($(type.kind().isFactory(), or, type.constitution.isOutsideBuilder()))) {
__.dl();__.ln();
__.ln();
__.out(" /**").ln();
__.dl();
if ($if(type.kind().isFactory())) {
__.dl();__.ln();
__.out(" * Creates a {@code ");
$(__, type.typeBuilderImpl().simple());
__.out("} factory builder.").ln();
} else {
__.dl();__.ln();
__.out(" * Creates a builder for {@link ");

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$(__, type.typeValue().relativeRaw());
__.out(" ");
$___.type.typeValue().simple();
__.out(" } instances.").ln();
}
__.dl();__.ln();
$___.out(" ");
$___.out( javadocGenerics, type);
__.ln();
$___.out( " ");
{final org.immutables.generator.Templates.Iteration _it4 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute p : $in(parameters)) {
    __.dl();__.ln();
    __.out(" * @param ");
    $(___.p.name());
    __.out(" { @code ");
    $(___.p.name());
    __.out(" } parameter");
    __.dl();
    if ($if(p.isNullable())) {
        __.dl();__.out(" can be { @code null}");
    }
    __.dl();__.ln();
    __.out(" ");
    __.dl();_it4.index++;
    _it4.first = false;
}
}___.dl();__.ln();
___.out(" * @return A new builder").ln();
___.out(" */").ln();
___.out(" public static");
$___.type.generics().def();
___.out(" ");
$___.type.typeBuilderImpl().simple();
$___.type.generics().args();
___.out(" ");
$___.type.factoryBuilder().applied();
___.out("(");
{final org.immutables.generator.Templates.Iteration _it4 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute p : $in(parameters)) {
    __.dl();__.dl();
    if ($if($not._it4.first)) {
        __.dl();__.out(" ");
    }
}
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```java
}.dl();$(__, p.atNullability());
$(__, constructorAcceptType, p);
__.out(" ");
$(__, p.name());
__.dl();_it4.index++;
_it4.first = false;
}
}.dl();__.out(" "){").ln();
__.out(" return new ");
$(__, type.typeBuilderImpl().simple());
$(__, type.generics().diamond());
__.out(" ");
{final org.immutables.generator.Templates.Iteration _it4 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute p : $in(parameters)) {
    __.dl();__.dl();
    if ($if($(not, _it4.first))) {
      __.dl();__.out(" , ");
    }
    __.dl();$(__, p.name());
    __.dl();_it4.index++;
    _it4.first = false;
  }
  __.dl();__.out(" ");).ln();
  __.out(" ");).ln();
  __.dl();
  if ($if($(parameters, andnot, type.kind().isFactory()))) {
    __.dl();__.ln();
    _.ln();
    __.out(" static");
    $(__, type.generics().def());
    __.out(" ");
    $(__, type.typeBuilderImpl().simple());
    __.out(" ");
    $(__, type.factoryBuilder().applied());
    __.out(" (){").ln();
    __.out(" return new ");
    $(__, type.typeBuilderImpl().simple());
    $(__, type.generics().diamond());
    __.out("();").ln();
    __.out(" ");).ln();
    __.out(" ");
  }
  __.dl();__.ln();
}
```
if ($if(type.isGenerateOrdinalValue())) {
    __dl();__ln();
    __out(" /**").ln();
    __out(" * Specify a non-default \{@link Domain\} for ordinal values.").ln();
    __out(" * @return \{@code this\} builder for use in a chained invocation\}).ln();
    __out(" */").ln();
    __out(" ");
    {final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);

    if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
        __dl();__out(" @com.google.errorprone.annotations.CanIgnoreReturnValue ");
    }

    __dl();__ln();
    __ln();
    __out("/\*\*/").ln();
    __out(" *\*\*/").ln();
    __out(" ");
    final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);

    if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
        __dl();__out(" @com.google.errorprone.annotations.CanIgnoreReturnValue ");
    }

    __dl();
}
__ln();
__out(" public final ");
final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    __dl();S(__, type_builderReturnType_1031721330.typeBuilder());
} else {
    __dl();S(__, type_builderReturnType_1031721330.typeBuilder().simple());
    S(__, type_builderReturnType_1031721330.generics().args());
}
__dl();}
domain(Domain domain) {
    this.domain = requireNonNull(type);
    return (domain, "domain");
}

{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);

if (type_builderReturnThis_1267082624.getInnerBuilder().isExtending) {
    $if(type_builderReturnThis_1267082624.typeBuilder());
    this;
}

/**
 * Fill a builder with attribute values from the provided {code } instance.
 * @param instance The instance from which to copy values
 * @return {code this} builder for use in a chained invocation
 */
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  if ($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue")){
    @com.google.errorprone.annotations.CanIgnoreReturnValue
    {
      instance.
    }
  }
    __.dl();
    }
    __.ln();
    __.out("  public final");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
    __.dl();
    if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
        __.dl();$(__, type_builderReturnType_1031721330.typeBuilder());
    } else {
        __.dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
        $(__, type_builderReturnType_1031721330.generics().args());
    }
    __.dl();
    }
    __.out(" ");
$(__, type.names().from);
    __.out("(");
$(__, type.typeModifiable());
    __.out(" instance) ");___.ln();
    __.out(" ");
$(__, requireNonNull, type);
    __.out("(instance, \"instance\")");___.ln();
    __.out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
        __.dl();___.ln();
        __.out(" ");
$(__, buildFromMandatoryAttribute, buildFromAttribute, v);
        ___.ln();
        __.out(" ");
        __.dl();_it2.index++;
        _it2.first = false;
    }
    __.dl();___.ln();
    __.out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
    __.dl();
    if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
        __.dl();___.out("(");
        $(__, type_builderReturnThis_1267082624.typeBuilder());
        __.out(" ");
    }
    __.dl();___.out("this");
if ($if($($(type.getBuildFromTypes(), and, type.getBuildFromTypes().hasManySupertypes())))) {
    __dl();__ln();
    __out(" ");
    __dl();
    if ($if($($(type.constitution.isImplementationPrimary(), and, $(s.type, eq, type.typeAbstract().toString())))) {
        __dl();__ln();
        __out(" /**").ln();
        __out(" * Fill a builder with attribute values from the provided { @code "});".__typename().simple());
        __out(" } instance.").ln();
        __out(" * @param instance The instance from which to copy values”).ln();
        __out(" * @return { @code this } builder for use in a chained invocation”).ln();
        __out(" */").ln();
        __out(" ");
    } [final org.immutables.generator.Templates.Iteration _it2 = new
    org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.FromSupertypesModel.FromSupertype s :
        $in(type.getBuildFromTypes().supertypes)) {
        __dl();__ln();
        __out(" ");
        __dl();
        if ($if($($(type.constitution.isImplementationPrimary(), and, $(s.type, eq, type.typeAbstract().toString())))) {
            __dl();__ln();
            __ln();
            __out(" /**").ln();
            __out(" * Fill a builder with attribute values from the provided { @code ");".__typename().simple());
            __out(" } instance.").ln();
            __out(" * @param instance The instance from which to copy values”).ln();
            __out(" * @return { @code this } builder for use in a chained invocation”).ln();
            __out(" */").ln();
            __out(" ");
        } [final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =
            $cast(type);
            __dl();
            if ($if($($(s.atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
                "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
                __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
            }
            __dl();
        } [final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 =
            $cast(type);
            __dl();
            if ($if($($(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
                __dl();$(__, type_builderReturnType_1031721330.typeBuilder());
            })
} else {
    __.dl();$___.type_builderReturnType_1031721330.typeBuilder().simple();
    $(___.type_builderReturnType_1031721330.generics().args());
}
___.dl();
$___.out(" ");
$___.type.names().from;
___.out("(");
$___.type.typeImmutable().relative();
___.out(" instance) {").ln();
___.out(" ");
$___.requireNonNull, type;
___.out("(instance, "instance")\");.ln();
___.out(" from((Object) instance);\").ln();
___.out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
___.dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
    ___.dl();__.out("(");
    ___.out(" ");
}
___.dl();__.out("this");
}
___.out(";\").ln();
___.out(" ");.ln();
___.ln();
___.out(" /**\").ln();
___.out(" * Copy abstract value type \{\@code \};
$(___.type.typeAbstract().simple());
___.out("} instance into builder.\").ln();
___.out(" * @param instance The instance from which to copy values\").ln();
___.out(" * @return \{\@code this\} builder for use in a chained invocation\").ln();
___.out(" */\").ln();
___.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
___.dl();
if ($if(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue\")}) {
    ___.dl();__.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
```java
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{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);

if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
  $(__, type_builderReturnType_1031721330.typeBuilder());
} else {
  $(__, type_builderReturnType_1031721330.typeBuilder().simple());
  $(___.type_builderReturnType_1031721330.generics().args());
}

} else {

} else {

/**
 * Fill a builder with attribute values from the provided
 * @code
 */
$(__.s.raw);
```
__out("}\ instance.").ln();
__out(" * @param instance The instance from which to copy values").ln();
__out(" * @return { @code this} builder for use in a chained invocation").ln();
__out(" */").ln();
__out(" ");

{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
__dl();
if ($if($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue")) {
__dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
__dl();
__ln();
__out(" public final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
__dl();$___.type_builderReturnType_1031721330.typeBuilder();
} else {
__dl();$___.type_builderReturnType_1031721330.typeBuilder().simple();
$___.type_builderReturnType_1031721330.generics().args();
}
__dl();
__out(" ");
$___.type.names().from;
__out("(");
$___.s.type;
__out(" instance \} ").ln();
__out(" ");
$___.requireNonNull, type);
__out("(instance, \"instance\")\}).ln();
__out(" from((Object) instance);\}).ln();
__out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
__dl();$___.type_builderReturnThis_1267082624.typeBuilder();
} else {
__dl();$___.type_builderReturnThis_1267082624.typeBuilder().simple();
$___.type_builderReturnThis_1267082624.generics().args();
}
__dl();
__out(" ");
$___.type.names().from;}
```java
__dl(); __out("this");
}
__out(","); __ln();
__out(" "); __ln();
__out(" ");
}
__dl(); __ln();
__out(" ");
__dl(); _it2.index++;
_it2.first = false;
}
__dl(); __ln();
__ln();
{final org.immutables.generator.Templates.Iteration _it2 = new
org.immutables.generator.Templates.Iteration();
final org.immutables.value.processor.meta.FromSupertypesModel bs = $cast(type.getBuildFromTypes());
__dl(); __ln();
__ln();
if ($if($(bs.hasWildcards(), andnot, type.suppressesUncheckedWarning()))) {
  __dl(); __ln();
  __out(" @SuppressWarnings("unchecked")").ln();
}
__dl(); __ln();
__out(" private void from(Object object) ").ln();
__out(" ");
$__dynamicFromModifiableCheck, type, "object", "return:";
__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it3 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(bs.positions.longs())) {
  __dl(); __ln();
  __out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atVar_1287436599 = $cast(type);
  __dl();
  if ($if($(s_atVar_1287436599, allowsClasspathAnnotation, "com.google.errorprone.annotations.Var"))) {
    __dl(); __out("@com.google.errorprone.annotations.Var ");
  }
  __dl();
  __out("long bits");
  $__emptyIfZero, l.index);
  __out(" = 0;").ln();
  __out(" ");
```
__.dl(); __lt3.index++; 
__lt3.first = false;
}
__.dl(); __ln();
__out(" ");
{ final org.immutables.generator.Templates.Iteration __lt3 = new 
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.FromSupertypesModel.FromSupertype s : $in(bs.supertypes))
{
if ($if(s.attributes))
{
  __dl(); __ln();
  __out("    if (object instanceof ");
$_(__, s.wildcard);
  __out(" ").ln();
  __out(" ");
$_(__, s.type);
  __out(" instance = ");
$_(__, s.type);
  __out(" object;");.ln();
  __out(" ");
}
final org.immutables.generator.Templates.Iteration __lt4 = new 
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(s.attributes))
{
final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($(bs.positions, v.name()));
  __dl(); __ln();
  __out(" ");
  __dl();
  if ($if(pos))
  {
    __dl(); __ln();
    __out(" if ((bits");
$_(__, emptyIfZero, pos.index);
    __out(" & ");
$_(__, literal.hex, pos.mask);
    __out(") == 0 ) ");.ln();
    __out(" ");
    __dl();
    if ($if(v.isNullableInSupertype()))
    {
      __dl(); __ln();
      __out(" ");
      $_(__, buildFromAttributeNullableSupertype, v);
      __ln();
      __out(" ");
    }
  }
  else
  {
    __dl(); __ln();
    __out(" ");
    $_(__, buildFromAttribute, v);
    __ln();
/* Copy abstract value type { @code }
* instance into builder.
* @param instance The instance from which to copy values
* @return { @code this } builder for use in a chained invocation
*/

{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =}

$cast(type);

{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);

{final org.immutables.generator.Templates.Iteration _it2 = new
org.immutables.generator.Templates.Iteration();}
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
  __.dl();___.ln();
  ___.out("  ");
  $(___.buildFromAttribute, v);
  __.ln();
  ___.out("  ");
  __.dl();___.it2.index++;
  ___.it2.first = false;
}
___.dl();___.ln();
___.out("  return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
  __.dl();
  if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
    __.dl();___.out("(");
    $(___.type_builderReturnThis_1267082624.typeBuilder());
    __.out(")");
  }
  __.dl();___.out("this");
}
___.out(",").ln();
___.out("  }");.ln();
___.out("  ");
} else {
  __.dl();___.ln();
  ___.out("  ");
  {final org.immutables.value.processor.meta.HasStyleInfo $s_atCanIgnoreReturnValue_1431153190 = $cast(type);
    __.dl();
    if ($if($($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
      __.dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
    }
    __.dl();
  }
  __.ln();
  ___.out("  public final ");
  {final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
    __.dl();
    if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
      $(__, type_builderReturnType_1031721330.typeBuilder());
    } else {
      $(__, type_builderReturnType_1031721330.typeBuilder().simple());
    }
  }
}
$(_, type_builderReturnType_1031721330.generics().args());

} __.dl();
} __.out(" ");
$(_, type.names().from);
__.out("(");
$(_, type.typeAbstract().relative());
__.out(" instance) { ").ln();
__.out(" ");
$(_, requireNonNull, type);
__.out("(instance, \"instance\")");.ln();
__.out(" ");
$(_, dynamicFromModifiableCheck, type, "instance", ");
__.ln();
__.out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
    __.dl();__.ln();
    __.out(" ");
    $(_, buildFromAttribute, v);
    __.ln();
    __.out(" ");
    __.dl();_it2.index++;
    _it2.first = false;
  }
} __.dl();__.ln();
__.out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
___.dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
  __.dl();___.out("(");
  $(_, type_builderReturnThis_1267082624.typeBuilder());
  ___.out(" ");
}
___.dl();___.out("this");

} __.out(";").ln();
___.out(" ");
} __.out(" ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
___.dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
  __.dl();___.out("(");
  $(_, type_builderReturnThis_1267082624.typeBuilder());
  ___.out(" ");
}
___.dl();___.out("this");

} __.out(";").ln();
___.out(" ");
} __.out(" ");
final org.immutables.generator.Templates.Invokable checkNotIsSet = new org.immutables.generator.Templates.Fragment(1) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.generator.Templates.Invokable checkNotIsSet = this;
    final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
    $(__).ln();
    if ($if(v.containingType.isUseStrictBuilder())) {
      $(__).dl();
      $(__).out("checkNotIsSet(");
      $(__).out(v.names.isSet());
      $(__).out("()");
      $(__).ln();
      $(__).dl();
    }
    $(__).dl();
    $(__).dl();
  }
}

final org.immutables.generator.Templates.Invokable nondefaultSetInBuilder = new org.immutables.generator.Templates.Fragment(1) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.generator.Templates.Invokable nondefaultSetInBuilder = this;
    final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
    $(__).ln();
    $(__).dl();
    if ($if(v.requiresTrackIsSet())) {
      final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
      final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($nondefaultsPositions, v);
      $(__).dl();
      $(__).dl();
      $(__).out("|");
      $(__).out("OPT_BIT_");
      $(__).out("=;");
      $(__).ln();
    }
    $(__).dl();
    $(__).dl();
  }
}

final org.immutables.generator.Templates.Invokable nondefaultSetInBuilder = new org.immutables.generator.Templates.Fragment(1) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.generator.Templates.Invokable nondefaultSetInBuilder = this;
    final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
    $(__).ln();
    $(__).dl();
    if ($if(v.requiresTrackIsSet())) {
      final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
      final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($nondefaultsPositions, v);
      $(__).dl();
      $(__).dl();
      $(__).out("|");
      $(__).out("=;");
      $(__).ln();
    }
    $(__).dl();
    $(__).dl();
  }
}
final org.immutables.generator.Templates.Invokable mandatorySetInBuilder = new org.immutables.generator.Templates.Fragment(1) {

    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        final org.immutables.generator.Templates.Invokable mandatorySetInBuilder = this;
        final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
        __.ln();
        __.dl();
        if ($if(v.isMandatory())) {
            final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
            final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($positions, v);
            __.ln();
            __.dl();
            __.dl();
            for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
                __.dl();
                __.ln();
                __.dl();
                __.ln();
                if ($if(v.isBuilderSwitcher())) {
                    final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
                    for (final org.immutables.value.processor.meta.SwitcherModel.SwitchOption o : $in(v.builderSwitcherModel.options)) {
                        __.dl();
                        __.ln();
                    };
                };
            };
        };
    }
}
$(_, o.constantName);
__out("; ").ln();
__out("   ").ln();
__dl(); _it3.index++;
_it3.first = false;
}
__dl(); __ln();
__out("   ");
}
__dl(); __ln();
__out("   ");
__dl();
if ($if(v.isEncoding())) {
__dl(); __ln();
__out("   ");
$_(__, rr.builderInit(), v);
__ln();
__out("   ");
} else if ($if(v.isCollectionType())) {
__dl(); __ln();
__out("   ");
__dl();
if ($if($if(not, v.isBuilderParameter))) {
__dl(); __ln();
__ln();
__out("   */ * Adds one element to ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$_(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out("   ");
$_(__, toLower, v.getRawCollectionType());
__out("   ").ln();
__out("   * @param element A ");
$_(__, v.name());
__out("   ").ln();
__out("   * @return { @code this } builder for use in a chained invocation ");.ln();
__out("   */ ");.ln();
__out("   ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
__dl();
if ($if($if(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
__dl(); __out("   @com.google.errorprone.annotations.CanIgnoreReturnValue ");}
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```java
__.dl();
__.ln();
__.out("  ");
$___.eachLine, v_initializerInjectedAnnotations();
__.ln();
__.out("  ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__.dl();
if ($if(a_deprecation_286924011.deprecated)) {
  ___.dl();___.out("@Deprecated");
}
__.dl();
__.ln();
__.out("  ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
__.dl();
if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher()))) {
  ___.dl();___.dl();
  if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
      ___.dl();___.out("private ");
  } else {
      ___.dl();$(__, a_builderInitAccess_991723715.getIntializerAccess());
  }
} else {
  ___.dl();$(__, a_builderInitAccess_991723715.getIntializerAccess());
}
__.dl();
__.out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__.dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
  ___.dl();___.out("typeBuilder()");
} else {
  ___.dl();$(___.type_builderReturnType_1031721330.typeBuilder().simple());
  $___.type_builderReturnType_1031721330.generics().args();
}
__.dl();
}
```
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```
__.out(" ");
$___.v.names.add());
__.out("(');
{final org.immutables.value.processor.meta.ValueAttribute a_atElementNullable_1621680092 = $cast(v);
__.dl();
if ($if($not, a_atElementNullable_1621680092.nullElements.ban())) {
  __.dl();$___.aAtNullable, a_atElementNullable_1621680092);
}
__.dl();
$___.v.getUnwrappedElementType());
__.out(" element) {"),$.ln();
__.out(" ");
__.dl();
if ($if(v.isNullableCollector())) {
  __.dl();___.ln();
  __.out(" if (this.");
$(___.v.name());
___.out(" == null) {"),$.ln();
___.out(" ");
$(___.defineOrResetBuildingFieldAlt, v, $$false, $$false);
___.ln();
___.out(" ");
___.out(" ");
}
___.dl();___.ln();
__.out(" ");
__.dl();
if ($if($v.isGenerateJdkOnly(), andnot, v.isPrimitiveElement())()) {
  __.dl();___.ln();
  __.out(" ");
  ___.dl();
  if ($if(v.hasAttributeValue())) {
    __.dl();___.ln();
    __.out(" if (element != null) ");
    ___.dl();
    if ($if($not, v.nullElements.ban())) {
      __.dl();___.out("if (element != null) ");
    }
  }
  ___.dl();___.out("element = ");
} [final org.immutables.value.processor.meta.ValueAttribute v_deepCopyOf_1878776147 = $cast(v);
final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = this;
```
if ($if(v_deepCopyOf_1878776147.isAttributeBuilder())) {
  __.dl();$(__, convertToValueType, v_deepCopyOf_1878776147.getAttributeBuilderDescriptor());
  __.out("(");
  ${___. expression_deepCopyOf_1878776147};
  __.out("")
} else {
  __.dl();$___.v_deepCopyOf_1878776147.attributeValueType.factoryCopyOf();
  __.out("(");
  ${___. expression_deepCopyOf_1878776147};
  __.out("")
}
___.dl();
___.out(";").ln();
___.out(" ");

if ($if(v.nullElements.skip())) {
  ___.dl();__.ln();
  __.out(" if (element != null) this.
    ___.v.name());
  __.out(".add(");
  [final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 = $cast(v);
  final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new
  org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 =
      this;
      __.out("element");
      __.dl();
    });___.dl();___.dl();
  }]
  if ($if(v_maybeToBuilder_53814988.isAttributeBuilder())) {
    ___.dl();$___.valueToBuilder, v_maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new
  org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invocation __) {
      __.dl();$___.expression_maybeToBuilder_53814988;
      ___.dl();
    });
  } else {
this;
   $(__, requireNonNull, type);
   __.out("(element, "");
   $(__, v.name());
   __.out(" element")");
   __.dl();
 }); __.dl(); 
if ($if(v_maybeToBuilder_53814988.isAttributeBuilder()) { 
   __.dl(); $(__, valueToBuilder, v_maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new 
org.immutables.generator.Templates.Fragment(0) {
   @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl(); $(__, expression_maybeToBuilder_53814988);
      __.dl();
   });
   } else {
      __.dl(); $(__, expression_maybeToBuilder_53814988);
   }
   __.dl();
 } __.out(";").ln();
 __.out(" ");

} __.dl(); __.ln();
 __.out(" ");
else {
 __.dl(); __.ln();
 __.out(" ");
 __.dl();
 if ($if(v.hasAttributeValue())) {
    __.dl();
    final org.immutables.value.processor.meta.ValueAttribute v_deepCopyOf_1878776147 = $cast(v);
    final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = new 
org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
         __.dl(); final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = this;
         __.out("element");
         __.dl();
      });
   } __.dl(); __.dl();
if ($if(v_deepCopyOf_1878776147.isAttributeBuilder()) { 
   __.dl(); $(__, convertToValueType, v_deepCopyOf_1878776147.getAttributeBuilderDescriptor());
   __.out("(");
   $(__, expression_deepCopyOf_1878776147);
   __.out(")");


} else {
    __dl();$___.deepCopyOf_1878776147.attributeValueType.factoryCopyOf();
    __out("(");
    $___.expression_deepCopyOf_1878776147();
    __out(")");
}
__dl();
}
__out(";"),ln();
__out("   ");

__dl();__ln();
__out("  this.");
$___.v.name();
__out(".add(");
{final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 = $cast(v);
final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 =
this;
        __out("element");
        __dl();
    });__dl();__dl();
    if ($if(v_maybeToBuilder_53814988.isAttributeBuilder())) {
        __dl();$___.valueToBuilder, v_maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new
org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
                __dl();$___.expression_maybeToBuilder_53814988;
                __dl();
            }});
    } else {
        __dl();$___.expression_maybeToBuilder_53814988;
    }
__dl();
__out(";"),ln();
__out("   ");

__dl();__ln();
__out("  ");
$___.nondefaultSetInBuilder, v);
__ln();
__out("    return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
__dl();__out("(");
$(__, type_builderReturnThis_1267082624.typeBuilder());
__out(" )");
}
__dl();__out("this");
}
__out(";").ln();
__out(" } ").ln();
__out(" ");
__dl();
if ($if(v.getConstructorParameters())) {
__dl();__ln();
__ln();
__out("   * Constructs and adds an element for the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" ");
$(__, toLower, v.getRawCollectionType());
__out(".").ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters())) {
__dl();__ln();
__out("   * @param ");
$(__, c.name());
__out(" The value for { @code ");
$(__, v.name());
__out(".");
$(__, c.name());
__out(" } ");
__dl();
if ($if(c.isNullable())) {
__dl();__out("(can be { @code null})");
}
__dl();__ln();
__out(" ");
}
__dl(); _it3.index++; 
_it3.first = false; 
}}
__dl();__ln();
__out("   * @return {@code this} builder for use in a chained invocation").ln();
__out(" */").ln();
__out(" ");
$(__, eachLine, v.elementInitializerInjectedAnnotations());
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if (Sif(a_deprecation_286924011.deprecated)) {
__dl();__out("@Deprecated");
}
__dl();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
__dl();
if (Sif($(a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher()))) {
__dl();__dl();
if (Sif(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
__dl();__out("private ");
}
__dl();
} else {
__dl();$(__, a_builderInitAccess_991723715.getInitializerAccess());
}
__dl();
}
__out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if (Sif(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
__dl();$(__, type_builderReturnType_1031721330.getTypeBuilder());
} else {
__dl();$(__, type_builderReturnType_1031721330.getTypeBuilder().simple());
$(__, type_builderReturnType_1031721330.getGenerics().args());
}
__dl();
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```java
{final org.immutables.generator.Templates.Iteration _it3 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters())) {
    __dl();__dl();
    if ($if($(not, _it3.first))) {
        __dl();__out("", "");
    }
    __dl();$(__, c.atNullability());
    $(__, c.getType());
    __out(" ");
    $(__, c.name());
    __dl();_it3.index++;
    _it3.first = false;
}
__dl();__out(""").ln();
__out(" return ");
$(__, v.names.add());
__out("(");
$(__, v.attributeValueType.factoryOf());
__out("(");
{final org.immutables.generator.Templates.Iteration _it3 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters())) {
    __dl();__dl();
    if ($if($(not, _it3.first))) {
        __dl();__out("", "");
    }
    __dl();$(__, c.name());
    __dl();_it3.index++;
    _it3.first = false;
}
__dl();__out(" ");ln();
__out(" ");ln();
__out(" */**");ln();
__out(" * Adds elements to ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
```
null
if ($if($a_builderInitAccess_991723715.isBuilderParameter, or, $a_builderInitAccess_991723715.isBuilderSwitcher())) {
    __.dl();
    if ($if($a_builderInitAccess_991723715.containingType.kind().isFactory())) {
        __.dl();
        __.out("private ");
    }
    __.dl();
} else {
    __.dl();___.a_builderInitAccess_991723715.getIntializerAccess();
}
___.dl();
___.out("final ");
[final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type); ___.dl(); if ($if($type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    ___.dl();___.type_builderReturnType_1031721330.typeBuilder();
} else {
    ___.dl();___.type_builderReturnType_1031721330.typeBuilder().simple();
    ___.type_builderReturnType_1031721330.generics().args();
}
___.dl();
___.out(":");
___.v.names.addv();
___.out("(");
___.v.getUnwrappedElementType();
___.out("... elements\") {\".ln();
___.out(" ");
___.dl();
if ($if($v.isNulllableCollector())) {
    ___.dl();___.ln();
    ___.out(" if (this.\");
    ___.v.name();
    ___.out(" == null\") {\".ln();
    ___.out(" ");
    ___.defineOrResetBuildingFieldAlt, v, $$false, $$false);___.ln();
    ___.out("\")\"}.ln();
    ___.out(" ");
}
___.dl();___.ln();
__.out("    ");
__.dl();
if (Slf($((v.isGenerateJdkOnly(), or, v.hasAttributeValue()))) {
    __.dl();__.ln();
    __.out(" for (");
$(__, v.getUnwrappedElementType());
    __.out(" element : elements ) {").ln();
    __.out("   ");
    __.dl();
} if ($((v.hasAttributeValue())) {
    __.dl();__.ln();
    __.out("   ");
    __.dl();
} if ($((not, v.nullElements.ban()))) {
    __.dl();__.out("if (element != null) ");
}
}
___.out("element = ");
{final org.immutables.value.processor.meta.ValueAttribute v_deepCopyOf_1878776147 = $cast(v);
final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = new
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = this;
        __.out("element");
        __.dl();
    });__.dl();__.dl();
} if ($((v_deepCopyOf_1878776147.isAttributeBuilder()))) {
    __.dl();$(__, convertToValueType, v_deepCopyOf_1878776147.getAttributeBuilderDescriptor());
    __.out("(");
$(__, expression_deepCopyOf_1878776147);
    __.out(")");
} else {
    __.dl();$(__, v_deepCopyOf_1878776147.getAttributeValueType.factoryCopyOf());
    __.out("(");
$(__, expression_deepCopyOf_1878776147);
    __.out(");
}
___.dl();
___.out(";").ln();
___.out("   ");
}
___.out("   ");
___.dl();
___.out("   ");
___.dl();
if ($if($v.isPrimitiveElement(), or, v.nullElements.allow())) {
    __dl();__ln();
    __out("      this.");
    $(__, v.name());
    __out(".add(");
    [final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 = $cast(v);
    final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new
    org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 =
            this;
            __out("element");
            __dl();
        }};__dl();__dl();
    if ($if(v_maybeToBuilder_53814988.isAttributeBuilder())) {
        __dl();$(__, valueToBuilder, v_maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new
        org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
                __dl();$(__, expression_maybeToBuilder_53814988);
                __dl();
            }});
    } else {
        __dl();$(__, expression_maybeToBuilder_53814988);
    }
    __dl();
    __out("");ln();
    __out(" ");
} else if ($if(v.nullElements.skip())) {
    __dl();__ln();
    __out("if (element != null) this.");
    $(__, v.name());
    __out(".add(");
    [final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 = $cast(v);
    final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new
    org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl();$(__, expression_maybeToBuilder_53814988);
            __dl();
        }});
    }
    __dl();
    __out("element");
    __dl();
} };__dl();__dl();
if ($if(v_maybeToBuilder_53814988.isAttributeBuilder())) {
    __dl();$(__, valueToBuilder, v_maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new
    org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl();
        }});
    }
    __dl();
```java
__.dl();__.ln();
__.out("  ");__.ln();
__.out(" ");

} else {
  __.dl();__.ln();
  __.out("  ");
  __.dl();
  if ($if(v.wrapArrayToIterable()) {
    __.dl();__.ln();
    __.out("  this.");
    $(__, v.name());
    __.out(" .addAll(");
    __.dl();
    if ($if(v.isAttributeBuilder())) {
      __.dl();{final org.immutables.value.processor.meta.AttributeBuilderDescriptor
        n_convertToBuilderType_187063380 = $cast(v.getAttributeBuilderDescriptor());
        __.out(" convertToBuilderType");
        $(__, n_convertToBuilderType_187063380.getQualifiedValueTypeNameWithUnderscores());
      }
      __.out(" (elements)")s;
    }
    else {
      __.dl();$__; arrayAsList, v, "elements";
    }
  }
  __.dl();__.out(" ");__.ln();
  __.out(" ");
}
}
```

}__dl();__out(";").ln();
__out("    ");
}
__dl();__ln();
__out("    ");
$(__, nondefaultSetInBuilder, v);
__ln();
__out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending) {
  __dl();__out("(");
  $(__, type_builderReturnThis_1267082624.typeBuilder());
  __out(" ) ");
}
__dl();__out("this");
}
__out(";").ln();
__out(" }").ln();
__ln();
__out(" ");
__dl();
if ($if(v.isAttributeBuilder()) {  
  __dl();__ln();
  __out(" /**").ln();
  __out(" * Adds a new builder to the ");
  {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
   $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
  }
  __out(" ");
  $(__, toLower, v.getRawCollectionType());
  __out(" and returns").ln();
  __out(" * the builder.").ln();
  __out(" */").ln();
  __out(" ");
  {final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
   __dl();
  }
  __out(" ");
}
if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
    __.dl(); __.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
___.dl();
}
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
    __.dl();
    if ($if(a_deprecation_286924011.deprecated)) {
        __.dl(); __.out("@Deprecated");
    }
}
___.dl();
}
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
    __.dl();
    if ($if($(a_varargsSafety_1368213209.isNonRawElementType(), or, a_varargsSafety_1368213209.hasTypeVariables))) {
        __.dl(); __.out("@SafeVarargs @SuppressWarnings("varargs")");
    }
}
___.dl();
}
___.ln();
___.out(" public final ");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
    $(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
    ___.out(" ");
    $(__, v.names.addBuilder());
    ___.out("()").ln();
    ___.out(" ");
    __.dl();
    if ($if(v.isNullableCollector())) {
        __.dl(); __.ln();
        __.out(" if (this.");
        $(__, v.name());
        __.out(" == null) ");
        __.ln();
        $(__, defineOrResetBuildingFieldAlt, v, $$false, $$false);
        __.ln();
    }
```java
    __out("    ");
    __out("    ");
    }
    __dl();__ln();
    __out("    ");
    {final org.immutables.value.processor.meta.AttributeBuilderDescriptor
     n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
     $__n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
    }
    __out(" builder = ");
    {final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_createAttributeBuilder_175285279
     = $cast(v.getAttributeBuilderDescriptor());
     $__n_createAttributeBuilder_175285279.getQualifiedBuilderConstructorMethod());
    __out("()");
    __out(";").ln();
    __out(" this.");
    $__v.name();
    __out(".add(builder;");ln();
    __out(" return builder;");ln();
    __out(" } ");ln();
    __ln();
    __out(" /* *");ln();
    __out(" * Adds elements to ");
    {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
     __sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);}
    __out(" ");
    $__, toLower, v.getRawCollectionType();
    __out(".");ln();
    __out(" * @param elements An array of ");
    $__, v.name();
    __out(" builder elements").ln();
    __out(" @return [ @code this] builder for use in a chained invocation").ln();
    __out(" */");ln();
    __out(" ");
    {final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
     __dl();
     if (Sif($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
     "com.google.errorprone.annotations.CanIgnoreReturnValue")(})
    __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
```

__dl();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
  __dl();__out("@Deprecated");
}
__dl();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
__dl();
if ($if(a_varargsSafety_1368213209.isNonRawElementType(), or,
  a_varargsSafety_1368213209.hasTypeVariables)) {
  __dl();__out("@SafeVarargs @SuppressWarnings("varargs")");
}
__dl();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
__dl();
if ($if(a_builderInitAccess_991723715.isBuilderParameter, or,
  a_builderInitAccess_991723715.isBuilderSwitcher())) {
  __dl();
  if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
    __dl();__out("private ");
  } else {
    __dl();$(__, a_builderInitAccess_991723715.getIntializerAccess());
  }
}
__dl();
} else {
  __dl();$(__, a_builderInitAccess_991723715.getIntializerAccess());
}
__dl();
__out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if ($if(type_builderReturnType_1031721330.isExtending)) {
  __dl();$(__, type_builderReturnType_1031721330.typeBuilder());
} else {

```java
    __.dl();__$(__, type_builderReturn_type_1031721330.typeBuilder().simple());
    $(__, type_builderReturn_type_1031721330.generics().args());

    }
    __.dl();
    }
    __.out(" ");
    $(__, v.names.addAllBuilder());
    __.out("(");
    }
    __.out("... elements) ").ln();
    __.out(" ");
    __.dl();
    if ($if(v.isNullableCollector())) {
        __.dl();___.ln();
        __.out(" if (this.");
        $(__, v.name());
        __.out(" == null) ").ln();
        __.out(" ");
        $(__, defineOrResetBuildingFieldAlt, v, $$false, $$false);___.ln();
        __.out(" ");
        __.out(" ").ln();
    }
    __.dl();___.ln();
    __.out(" ");
    __.dl();
    if ($if($(v.isGenerateJdkOnly(), or, v.hasAttributeValue()))) {
        __.dl();___.ln();
        __.out(" for (");
        [final org.immutables.value.processor.meta.AttributeBuilderDescriptor
        n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeDescriptor());
        $(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());

        }
        __.out("... elements) ").ln();
        __.out(" ");
        __.dl();
    }
    __.dl();___.ln();
    __.out(" ");
    __.dl();
    if ($if($v.isGenerateJdkOnly(), or, v.hasAttributeValue())) {
        __.dl();___.ln();
        __.out(" for (");
        [final org.immutables.value.processor.meta.AttributeBuilderDescriptor
        n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
        $(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderType());

        }
        __.out(" element : elements) ").ln();
        __.out(" ");
        __.dl();
    }
    __.dl();___.ln();
    __.out(" ");
    __.dl();
    if ($if($v.isPrimitiveElement(), or, v.nullElements.allow())) {
        __.dl();___.ln();
        __.out(" this.");
        $(__, v.name());
        __.out(" .add(element); ").ln;
```
$(__, nondefaultSetInBuilder, v);
__ln();
__out("    ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending) {
__dl();__out("(");
$__(__, type_builderReturnThis_1267082624.typeBuilder());
__out(") ");
}
__dl();__out("this");

__out(";").ln();
__out("  ").ln();
__ln();
__out("  /*");.ln();
__out("  * Gets the builder elements to ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
__dl();__out("@Deprecated");
}
__dl();
{final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
__dl();
if ($if(a_varargsSafety_1368213209.isNonRawElementType(), or,
a_varargsSafety_1368213209.hasTypeVariables) ) {
__dl();__out("@SafeVarargs @SuppressWarnings("varargs")");
}
public final java.util.List<
final org.immutables.value.processor.meta.AttributeBuilderDescriptor
n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
S(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());

} __out(" > ");
$(__, v.names.getBuilders());
__out(" () ").ln();
__out(" ");
__dl();
if ($if(v.isGenerateJdkOnly())) {
  __dl();__ln();
  __out(" return createUnmodifiableList(false, this. ");
  $(__, v.name());
  __out(";").ln();
  __out(" ");
}
else {
  __dl();__ln();
  __out(" return this. ");
  $(__, v.name());
  __out(" .build();").ln();
  __out(" ");
}
__dl();__ln();
__out(" ").ln();
__out(" ");

} __dl();__ln();
  __out(" ");
__dl();
if ($if(not,type.isUseStrictBuilder())) {
  __dl();__ln();
  __ln();
  __out(" /** ").ln();
  __out(" * Sets or replaces all elements for ");
  } final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
  $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

} __out(" ");
$(__.toLower, v.getRawCollectionType());
___.out(".");ln();
___.out(" * @param elements An iterable of ");
$___.name();
___.out(" elements").ln();
___.out(" * @return {@code this} builder for use in a chained invocation").ln();
___.out(" */").ln();
$___.out(" ");
$___.eachLine, v.initializerInjectedAnnotations();
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  ___.dl();
  if (Sif($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue")) {___.dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
    ___.dl();
  }
  _dl();
}
___.ln();
___.out(" ");
$___.eachLine, v.getBuilderAttributeAnnotation();
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  ___.dl();
  if (Sif($(a_deprecation_286924011.deprecated)) {___.dl();___.out("@Deprecated");
    ___.dl();
  }
  _dl();
}
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
  ___.dl();
  if (Sif($(a_builderInitAccess_991723715.isBuilderParameter, or, a_builderInitAccess_991723715.isBuilderSwitcher()))) {
    ___.dl();___.dl();
    if (Sif($(a_builderInitAccess_991723715.containingType.kind().isFactory())) {___.dl();___.out("private ");
      ___.dl();
    } else {
      ___.dl();$(___.a_builderInitAccess_991723715.getInitializerAccess());
    }
  }
}
final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);

if (Sif(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {

} else {

}

final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);

if (Sif(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {

} else {

}

if (Sif(v.isNullable())) {

} else {

}
if ($if($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
    __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
__dl();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
    __dl();
    if ($if(a_deprecation_286924011.deprecated)) {
        __dl();__out("@Deprecated");
    }
    __dl();
    __ln();
    __out(" ");
    {final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
        __dl();
        if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or, a_builderInitAccess_991723715.isBuilderSwitcher()))) {
            __dl();__dl();
            if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
                __dl();__out("private ");
            }
            __dl();
        } else {
            __dl();$(__, a_builderInitAccess_991723715.getIntializerAccess());
        }
    }
    __dl();
    __ln();
    __out("final ");
    {final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
        __dl();
        if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
            __dl();$(__, type_builderReturnType_1031721330.typeBuilder());
        } else {
            __dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
            $(__, type_builderReturnType_1031721330.generics().args());
        }
    }
    __dl();
}
Long piece of code involving variable definitions, type checking, and iteration over elements, with conditional logic and method calls.
if ($if(v_deepCopyOf_1878776147.isAttributeBuilder())) {
    __.dl();$___.convertToValueType. v_deepCopyOf_1878776147.getAttributeDescriptor();
    __.out("(");
    $(__, expression_deepCopyOf_1878776147);
    __.out(")");
}

} else {
    __.dl();$(__, v_deepCopyOf_1878776147.getAttributeDescriptor().factoryCopyOf());
    __.out("(");
    $(__, expression_deepCopyOf_1878776147);
    __.out(")");
}

} __.dl();
} __.out(";").ln();
___.out(" ");

} __.dl();___.ln();
__.out(" ");
___.dl();
if ($if(v.nullElements.allow())}) {
    __.dl();___.ln();
    ___.out(" this.");
    $(__, v.name());
    ___.out(".add(");
    {final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 = $cast(v);
    final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 =
        new org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {

} __.out("element");
    ___.dl();
} __.dl();___.dl();
if ($if(v_maybeToBuilder_53814988.isAttributeBuilder())) {
    __.dl();$(__, valueToBuilder, v_maybeToBuilder_53814988.getAttributeDescriptor(), new
org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invocation __) {
    __.dl();$(__, expression_maybeToBuilder_53814988);
    __.dl();
    } });
} else {

Open Source Used In kASA v1.5  10481
this;
    $(__, requireNonNull, type);
    __out("(element, \\
    $(__, v.name());
    __out(" element")
    __dl();
}).dl();

    if ($if(v_maybeToBuilder_53814988.isAttributeBuilder())) {
        __dl();$(__, valueToBuilder, v_maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
                __dl();$(__, expression_maybeToBuilder_53814988);__dl();
            }
        });
    } else {
        __dl();$(__, expression_maybeToBuilder_53814988);
    }

    __dl();
}

    __out(";").ln();
    __out(" ");

} else {
    __dl();__ln();
    __out(" ");ln();
    __out(" ");
}

} else {
    __dl();__ln();
    __out(" this.");
    $(__, v.name());
    __out(" .addAll(");
    __dl();

    if ($if(v.isAttributeBuilder())) {
        __dl();final org.immutables.value.processor.meta.AttributeBuilderDescriptor
        n_convertToBuilderType_187063380 = $cast(v.getAttributeBuilderDescriptor());
        __out("convertToBuilderType");
        $___.n_convertToBuilderType_187063380.getQualifiedValueTypeNameWithUnderscores();
    }
    __out("(elements")

} else {
    __dl();__out("elements");
}
$(__, nondefaultSetInBuilder, v);
__ln();
__out("    return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
  __dl();__out("(");
$(__, type_builderReturnThis_1267082624.typeBuilder());
__out(" )");
}
__dl();__out("this");
}
__out(";").ln();
__out(" }").ln();
__out(" ");
__dl();
if ($if(v.isAttributeBuilder())) {
  __dl();__ln();
  __In();
  __out(" /**").ln();
  __out(" * Adds elements to ");
  {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
    $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
  }
  __out(" ");
  $(__, toLower, v.getRawCollectionType());
  __out(".").ln();
  __out(" * @param elements An iterable of ");
  $(__, v.name());
  __out(" builder elements").ln();
  __out(" * @return { @code this } builder for use in a chained invocation").ln();
  __out(" */").ln();
  __out(" ");
  {final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =
    $cast(type);
    __dl();
    if ($if($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
      "com.google.errorprone.annotations.CanIgnoreReturnValue")}) {
      __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
    }
  }
____dl();
}
____ln();
____out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
____dl();
if ($if(a_deprecation_286924011.deprecated)) {
  ___.dl();___.out("@Deprecated");
}
____dl();
}
____ln();
____out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
____dl();
if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or,
  a_builderInitAccess_991723715.isBuilderSwitcher()))) {
  ___.dl();___.dl();
  if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
    ___.dl();___.out("private ");
  } else {
    ___.dl();$_(__, a_builderInitAccess_991723715.getIntializerAccess());
  }
}
____dl();
} else {
  ___.dl();$_(__, a_builderInitAccess_991723715.getInitializerAccess());
}
____dl();
}
____out("final ");
{final org.immutables.value.processor.meta ValueType type_builderReturnType_1031721330 = $cast(type);
____dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
  ___.dl();$_(__, type_builderReturnType_1031721330.typeBuilder());
} else {
  ___.dl();$_(__, type_builderReturnType_1031721330.typeBuilder().simple());
  $(_, type_builderReturnType_1031721330.generics().args());
}
____dl();
}
____out(" ");
$(_, v.names.addAllBuilder());
____out("(Iterable<");
n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());

$(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());

if ($if(v.isNullableCollector())) {
    __.dl();___.ln();
    __.out("    ");
    $(__, requireNonNull, type);
    __.out("(elements, ")");
    $(__, v.name());
    __.out(" element");).ln();
    __.out("    if (this.");
    $(__, v.name());
    __.out(" == null) { ");.ln();
    __.out("    ");
    $(__, defineOrResetBuildingFieldAlt, v, $$false, $$false);
    __.ln();
    __.out("    } ");.ln();
    __.out("    ");
}

if ($if($isGenerateJdkOnly(), or, v.hasAttributeValue())) {
    __.dl();___.ln();
    __.out("    for (";
    [final org.immutables.value.processor.meta.AttributeBuilderDescriptor
n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
    $(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());

} __.out("    ");.ln();
    __.out("    ");
    __.dl();
    if ($is($v.isGenerateJdkOnly(), or, v.hasAttributeValue())) {
        __.dl();___.ln();
        __.out("    ");
        [final org.immutables.value.processor.meta.AttributeBuilderDescriptor
n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
    $(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());

} __.out("    ");.ln();
    __.out("    ");
    __.dl();
    if ($is($v.nullElements.allow())) {
        __.dl();___.ln();
        __.out("    ");
        $(__, v.name());
        __.out(".add(element); ");.ln();
        __.out("    ");
    } else if ($is($v.nullElements.skip())) {
        __.dl();___.ln();
        __.out("    if (element != null) this.");

    }
```java
if ($if(v.isOptionalType())) {
    __.dl();__.ln();
    __.out("    ");
    __.dl();
    if ($if($(not, v.isBuilderParameter))) {
        __.dl();__.ln();
        __.ln();
        __.out("  /**").ln();
        ${final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
        $__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    }
    __.out(" to ");
    $__, v.name();
    __.out(".").ln();
    __.out(" * @param ");
    $__, v.name();
    __.out(" The value for ");
    $__, v.name();
    __.dl();
    if ($if(v.isOptionalAcceptNullable())) {
        __.dl();__.out(" , {@code null} is accepted as {code ");
        ${final org.immutables.value.processor.meta.ValueAttribute a_optionalEmpty_1867206284 = $cast(v);
        $__, a_optionalEmpty_1867206284.getRawType());
        __.out("}");
        __.dl();
        if ($if(a_optionalEmpty_1867206284.isJdkOptional())) {
            __.dl();__.out("empty");
        } else if ($if($(a_optionalEmpty_1867206284.isFugueOptional(), or,
        a_optionalEmpty_1867206284.isJavaslangOptional()))) {
            __.dl();__.out("none");
        } else {
            __.dl();__.out("absent");
        }
    } else {
        __.dl();__.out("()");
    }
    __.out(" ");
}
___.dl();__.ln();
___.out(" * @return {code this} builder for chained invocation").ln();
```
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```java
__out(" */").ln();
__out(" ");
$(___.eachLine, v.elementInitializerInjectedAnnotations());
___.ln();
___.out(" ");

{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
___.dl();
if ($if($($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
___.dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
___.dl();
}
___.ln();
___.out(" ");

{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
___.dl();
if ($if(a_deprecation_286924011.deprecated)) {
___.dl();___.out("@Deprecated");
}
___.dl();
}
___.ln();
___.out(" ");

{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
___.dl();
if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher()))) {
___.dl();___.dl();
if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
___.dl();___.out("private ");
}
___.dl();
} else {
___.dl();$(___.a_builderInitAccess_991723715.getInitializerAccess());
}
___.dl();
}
___.out("final ");

{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
___.dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
___.dl();$(___.type_builderReturnType_1031721330.typeBuilder());
```
else {
    __.dl();$
    __.out(" ");
   __$(_. v.names.init);
   __$(" ");
    final org.immutables.value.processor.meta.ValueAttribute a_unwrappedOptionalType_1615308684 = $cast(v);
    __.dl();
    if ($(a_unwrappedOptionalType_1615308684.isOptionalType(), and,
    a_unwrappedOptionalType_1615308684.isOptionalAcceptNullable())) {
        __.dl();__$(_. a_unwrappedOptionalType_1615308684.getWrappedElementType());
    } else {
        __.dl();__$(_. a_unwrappedOptionalType_1615308684.getUnwrappedElementType());
    }
    __.dl();
    __.out(" ");
   __$(_. v.name());
    __.out(" ");
   __$(_. checkNotIsSet, v);
    __.ln();
    __.out(" ");
    __.dl();
    if ($(v.isJdkOptional(), and, type.kind().isFactory())) {
        __.dl();___.ln();
        __.out(" this.");
       __$(_. v.name());
        __.out(" = ");
    }
    final org.immutables.value.processor.meta.ValueAttribute a_optionalOf_332927268 = $cast(v);
   __$(_. a_optionalOf_332927268.getRawType());
    __.out(".");
    __.dl();
    if ($(not, a_optionalOf_332927268.isOptionalAcceptNullable())) {
        __.dl();___.dl();
        if ($(not, a_optionalOf_332927268.isOptionalAcceptNullable())) {
            __.dl();___.out("some");
        } else {
            __.dl();$
            __.out(" ");
           __$(_. typeBuilderReturnType_1031721330.typeBuilder().simple());
           __$(_. typeBuilderReturnType_1031721330.generics().args());
        }
    }
}

___.out(" ");
__$(_. v.names.init);
__$(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_unwrappedOptionalType_1615308684 = $cast(v);
__$(_. a_unwrappedOptionalType_1615308684.getWrappedElementType());
}
} else if ($if(a_optionalOf_332927268.isJdkOptional())) {
  __.dl();__.out("ofNullable");
} else if ($if(a_optionalOf_332927268.isFugueOptional())) {
  __.dl();__.out("option");
} else if ($if(a_optionalOf_332927268.isJavaslangOptional())) {
  __.dl();__.out("of");

} else {
  __.dl();__.out("fromNullable");
}

___.dl();
___.out("(");
{final org.immutables.value.processor.meta.ValueAttribute v_maybeCopyOf_1779456614 = $cast(v);
final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = this;
    $(__, v.name());
    __.dl();
  });;___.dl();
if ($if(v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf)) {
  __.dl();___.out("immutableCopyOf(");
  $(__, expression_maybeCopyOf_1779456614);
  ___.out(")");
}

} else {
  __.dl();$(__, expression_maybeCopyOf_1779456614);
}

___.dl();
___.out(";");ln();
___.out(" ");
} else if ($if($(v.isJdkOptional(), and, $($(v.isJdkSpecializedOptional(), or, v.isOptionalAcceptNullable()),
or, v.isPrimitiveElement())))) {
  __.dl();___.ln();
  ___.out(" this.");
  $(__, v.name());
  ___.out(" = ");
{final org.immutables.value.processor.meta.ValueAttribute v_maybeCopyOf_1779456614 = $cast(v);
final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = this;
    $(__, v.name());
    __.dl();
  });;___.dl();
if ($if(v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf)) {
  __.dl();___.out("immutableCopyOf(");
  $(__, expression_maybeCopyOf_1779456614);
  ___.out(")");
}

} else {
  __.dl();$(__, expression_maybeCopyOf_1779456614);
}

___.dl();
___.out(";");ln();
___.out(" ");
} else if ($if($(v.isJdkOptional(), and, $($(v.isJdkSpecializedOptional(), or, v.isOptionalAcceptNullable()),
or, v.isPrimitiveElement())))) {
  __.dl();___.ln();
  ___.out(" this.");
  $(__, v.name());
  ___.out(" = ");
{final org.immutables.value.processor.meta.ValueAttribute v_maybeCopyOf_1779456614 = $cast(v);
final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = this;
    $(__, v.name());
    __.dl();
  });;___.dl();
if ($if(v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf)) {
  __.dl();___.out("immutableCopyOf(");
  $(__, expression_maybeCopyOf_1779456614);
  ___.out(")");
}

} else {
  __.dl();$(__, expression_maybeCopyOf_1779456614);
}

___.dl();
___.out(";");ln();
___.out(" ");
```java
) else {
    __dl();$___.n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod();
    __out("");
    $(___.expression_valueToBuilder_1442539515);
    __out(""));

    }
    __dl();
}
 else {
    __dl();{final org.immutables.value.processor.meta.ValueAttribute v_maybeCopyOf_1779456614 =
$cast(v);
    final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = new
org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl();final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 =
this;
            $(___.requireNonNull, type);
            __out("">
            $(___.v.name());
            __out("", ")
            $(___.v.name());
            __out(""));
            __dl();
        });___.dl();___.dl();
    if ($if(v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf) {
        __dl();___.out("immutableCopyOf(");
        $(___.expression_maybeCopyOf_1779456614);
        __out(""));
    } else {
        __dl();$(___.expression_maybeCopyOf_1779456614);
    }
    __dl();
}
    __out(";");

}
    __dl();___.ln();
    __out(""");

}
    __dl();___.ln();
    __out(" ");

} else {
    __dl();___.ln();
    __out(" this.");
    $(___.v.name());
```
__.out(" = ");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalOf_332927268 = $cast(v);
__.out( ".");
__.dl();
if ($if(!$not, a_optionalOf_332927268.isOptionalAcceptNullable())) {
  __.dl();
  _.dl();
  if ($if($a_optionalOf_332927268.isFugueOptional(), or,
          a_optionalOf_332927268.isJavaslangOptional()) ) {
    __.dl();
    __.out("some");
  } else {
    __.dl();
    __.out("of");
  }
} else if ($if(a_optionalOf_332927268.isJdkOptional())) {
  __.dl();
  _.out("ofNullable");
} else if ($if(a_optionalOf_332927268.isFugueOptional())) {
  __.dl();
  __.out("option");
} else if ($if(a_optionalOf_332927268.isJavaslangOptional())) {
  __.dl();
  __.out("of");
} else {
  __.dl();
  __.out("fromNullable");
}
___.dl();
___.dl();
if ($if(v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf)) {
  __.dl();
  ___.dl();
  ___.dl();
  ___.dl();
} else {
  ___.dl();
  ___.dl();
  __.dl();
  __.dl();
}
if ($if(v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf)) {
  __.dl();
  ___.dl();
  ___.dl();
  ___.dl();
  ___.dl();
  ___.dl();
  ___.dl();
  ___.dl();
} else {
  ___.dl();
  ___.dl();
  ___.dl();
  ___.dl();
}
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```java
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
  __.dl();
  if ($if($a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher())) {
    __.dl();
    if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
      __.dl();
      __.out("private ");
    }
  } else {
    __.dl();
    $(__, a_builderInitAccess_991723715.getInitializerAccess());
  }
  __.dl();
}
___.out("final ");
{n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
  $(___. n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
}
_.out(" ");
$(___. v.names.getBuilder());
_.out("() ");__.ln();
_.out(" if (this.");
$(___. v.name());
_.out(" == null ")__.ln();
_.out(" this.");
$(___. v.name());
_.out(" = ");
{n_createAttributeBuilder_175285279 = $cast(v.getAttributeBuilderDescriptor());
  $(___. n_createAttributeBuilder_175285279.getQualifiedBuilderConstructorMethod());
  _.out("() ");
}
_.out(";");__.ln();
_.out(" ");__.ln();
_.out(" ");
$(___. nondefaultSetInBuilder, v);
_.ln();
_.out(" ");
}``
$(__, mandatorySetInBuilder, v);
$___.ln();
$___.ln();
$___.out("    return this.");
$___.out(";").ln();
$___.out("  ").ln();
$___.out("  /* */").ln();
$___.out("  * Sets ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
$___.out(" to the provided builder.").ln();
$___.out(" */").ln();
$___.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  ___.dl();
  if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
  "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
    ___.dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
  ___.dl();
}
$___.ln();
$___.out(" ");
$(__, eachLine, v.getBuilderAttributeAnnotation());
$___.ln();
$___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  ___.dl();
  if ($if(a_deprecation_286924011.deprecated)) {
    ___.dl();___.out("@Deprecated");
  }
  ___.dl();
}
$___.ln();
$___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
  ___.dl();
  if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher()))) {
    ___.dl();___.dl();
    if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory()) {
```java
__.dl();__.out("private ");
}
__.dl();
} else {
  __.dl();$(__, a_builderInitAccess_991723715.getIntializerAccess());
}
__.dl();
__.out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
   __.dl();
   if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
     __.dl();$(__, type_builderReturnType_1031721330.typeBuilder());
   } else {
     __.dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
     $(__, type_builderReturnType_1031721330.generics().args());
   }
   __.dl();
   __.out(" ");
   $(__, v.names.setBuilder());
   __.out("(");
   $(__, v.atNullability());
   $(__, v.getAttributeBuilderDescriptor().getQualifiedBuilderTypeName());
   __.out(" ");
   $(__, v.name());
   __.out(" ") {".ln();
   __.out(" ");
   $(__, checkNotIsSet, v);
   __.ln();
   __.out(" this.");
   $(__, v.name());
   __.out(" = ");
   $(__, v.name());
   __.out(";"):ln();
   __.out(" ");
   $(__, nondefaultSetInBuilder, v);
   __.ln();
   __.out(" ");
   $(__, mandatorySetInBuilder, v);
   __.ln();
   __.out(" return ");
}
```

if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
  ___.dl();_.out("(");
  $(__, type_builderReturnThis_1267082624.typeBuilder());
  _.out(" )");
}
  _.dl();_.out("this");
  _.out(";").ln();
  _.out("  ").ln();
  _.out(" ");
  _.dl();_.ln();
  _.out(" ");
  _.dl();
if ($if(v.getConstructorParameters())) {
  _.dl();_.ln();
  _.ln();
  _.out("  **").ln();
  _.out(" * Constructs and initializes the optional value for the ");
  {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
    $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    
  }
  _.out(" attribute.").ln();
  _.out(" ");
  {final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters())) {
      _.dl();_.ln();
      _.out("  * @param ");
      $(__, c.name());
      _.out(" The value for { @code ");
      $(__, v.name());
      _.out(".");
      $(__, c.name());
      _.out("} ");
      _.dl();
      if ($if(c.isNullable())) {
        _.dl();_.out("(can be { @code null})");
      }
      _.dl();_.ln();
      _.out(" ");
      _.dl();_it3.index++;  
      _it3.first = false;  
  }  
}
if (Slf(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    __dl();Slf(__, type_builderReturnType_1031721330.typeBuilder());
} else {
    __dl();Slf(__, type_builderReturnType_1031721330.typeBuilder().simple());
    Slf(__, type_builderReturnType_1031721330.generics().args());
}
__dl();
__out(" ");
Slf(__, v.names.init);
__out("();
{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute c : Sin(v.getConstructorParameters())) {
        __dl();__dl();
        if (Slf($if(not, _it3.first))) {
            __dl();__out("", ");
        }
        __dl();Slf(__, c.atNullability());
        Slf(__, c.getType());
        __out(" ");
        Slf(__, c.name());
        __dl();_it3.index++;
        _it3.first = false;
    }
    __dl();__out(" ");.ln();
    __out(" return ");
    Slf(__, v.names.init);
    __out("();
    Slf(__, v.attributeValueType.factoryOf());
    __out("();
    {final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute c : Sin(v.getConstructorParameters())) {
        __dl();__dl();
        if (Slf($if(not, _it3.first))) {
            __dl();__out("", ");
        }
        __dl();Slf(__, c.name());
        __dl();_it3.index++;
        _it3.first = false;
    }
    __dl();__out(" ");.ln();
    __.out("} ").ln();
    __.out( ");
    }
    __.dl();__ln();
    __out(" ");
    }
    __.dl();__ln();
    __ln();
    __out("/** ").ln();
    __out(" * Initializes the optional value ");
    {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
    __(), sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    }
    __.out(" to ");
    __(), v.name());
    __.out(".").ln();
    __.out(" * @param ");
    __(), v.name());
    __.out(" The value for ");
    __(), v.name());
    __.ln();
    __.out(" * @return { @code this } builder for use in a chained invocation").ln();
    __.out(" */").ln();
    __.out(" ");
    __.dl();
    if ($if($(type.kind().isFactory(), ornot, v.isJdkOptional()))) {
    __.dl();__ln();
    __.out(" ");
    __(), suppressCovariantCastForOptional, v);
    __.ln();
    __.out(" ");
    }
    __.dl();__ln();
    __.out(" ");
    __(), eachLine, v.initializerInjectedAnnotations());
    __.ln();
    __.out(" ");
    {final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
    __.dl();
    if ($if$(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue ")) {
    __.dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
$(__, v.names.init);
__out("(");
$__v.getRawType();
__dl();
if (not v.isJdkSpecializedOptional()) {
__dl();__out("<");
$__v.getConsumedElementType();
__out(">");
}
__dl();__out(" ");
$__v.name();
__out(" ")
__ln();
__out(" ");
__dl();
if (v.isJdkOptional(), and, type.kind().isFactory()) {
__dl();__ln();
__out(" this.");
$__v.name();
__out(" = ");
$__v.getName();
__out(" ");
$__requireNonNull(type);
__out("(");
$__v.name();
__out(",");
$__v.name();
__out(";");
__ln();
__out(" ");
} else if (v.getAttributeBuilder()) {
__dl();__ln();
__out(" this.");
$__v.name();
__out(" = ");

final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_convertToBuilderType_187063380 = $cast(v.getAttributeBuilderDescriptor());
__out("convertToBuilderType");
$__v.convertToBuilderType_187063380.getQualifiedValueTypeNameWithUnderscores();
} else {
    __dl();__ln();
    __out("    this.");
    $(__, v.name());
    __out(" = ");
    $(__, valueFromValue, v, v.name());
    __out(";").ln();
    __out(" ");
}

__dl();__ln();
__out("    ");
$(__, nondefaultSetInBuilder, v);
__ln();
__out("    return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if (Sif(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
    __dl();__out("(");
    $(__, type_builderReturnThis_1267082624.typeBuilder());
    __out(" ");
}

__dl();__out("this");

__out(";").ln();
__out("    ");.ln();
__out("    ");
} else if ($is(v.isMapType())) {
    __dl();__ln();
    __out("    ");
    {final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
    final java.lang.String gE = $cast(v.getConsumedElementType());
    final java.lang.String uK = $cast(v.getUnwrappedElementType());
    final java.lang.String wK = $cast(v.getWrappedElementType());
    final java.lang.String uV = $cast(v.getUnwrappedSecondaryElementType());
    final java.lang.String wV = $cast(v.getWrappedSecondaryElementType());
    __dl();__ln();
    __out("    ");
    __dl();
    if ($is(v.isMultimapType())) {
        __dl();__ln();
        __out("    ");
        __dl();
        if ($is($not, v.isBuilderParameter)) {
            __dl();__ln();
            __ln();} else {
__out("/**").ln();
__out("  * Put all mappings from the specified key to values for ").ln();

{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
  $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}

__out(" ");
$__ toLower, v.isMapType();
__out("  . Nulls are not permitted").ln();
__out("  * @param key The key for ");
$__ v.name();
__ln();
__out("  * @param values The values for ");
$__ v.name();
__ln();
__out("  * @return {code this} builder for use in a chained invocation").ln();

$__ eachLine, v.elementInitializerInjectedAnnotations();
__ln();
__out(" ");

{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =
  $cast(type);
  __dl();
  if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
    "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
    __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
  __dl();
}
__ln();
__out(" ");

{final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
  __dl();
  if ($if($(a_varargsSafety_1368213209, isNonRawElementType(), or,
    a_varargsSafety_1368213209, hasTypeVariables)) {
    __dl();__out("@SafeVarargs @SuppressWarnings("varargs")");
  }
  __dl();
}
__ln();
__out(" ");

{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  __dl();
  if ($if($(a_deprecation_286924011, isNonRawElementType(), or,
    a_deprecation_286924011, deprecated)) {
    __dl();__out("@Deprecated");
  }
  __dl();
}

__out(" ");

{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  __dl();
  if ($if($(a_deprecation_286924011, deprecated)) {
    __dl();__out("@Deprecation");
  }
  __dl();
}
$(__, v.name());
__out(" == null") { ").ln();
__out(" ");
$(__, defineOrResetBuildingFieldAlt, v, $false, $false);
__ln();
__out(" ");ln();
__out(" ");ln();
__out(" ");
}
__dl();__ln();
__out(" this.");
$(__, v.name());
__out(" .putAll(key, ");
$(__, arrayAsListSecondary, v, "values");
__out(" ");ln();
__out(" ");
$(__, nondefaultSetInBuilder, v);
__ln();
__out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
__dl();__out("(");
$(__, type_builderReturnThis_1267082624.typeBuilder());
__out(" ");
}
__dl();__out("this");
}
__out(".");ln();
__out(" ");ln();
__ln();
__out(" /*");ln();
__out(" * Put all mappings from the specified key to values for ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" ");
$(__, toLower, v.isMapType());
__out(" . Nulls are not permitted");ln();
__out(" * @param key The key for ");
$(__, v.name());
__ln();
__out(" * @param values The values for ");
$(__, v.name());
__ln();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
  __.dl();$(__, type_builderReturnThis_1267082624.typeBuilder());
} else {
  __.dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
  $(__, type_builderReturnType_1031721330.generics().args());
}

___.dl();
___.out(" ");
$(__, v.names.putAll());
___.out("(");
$(__, uK);
___.out(" key, Iterable<");
$(__, wV);
___.out("> values) ").ln();
___.out(" ");
___.dl();
if ($if(v.isNullable())) {
  __.dl();__.ln();
  __.out(" if (this.");
  $(__, v.name());
  __.out(" == null) ").ln();
  __.out(" ");
  $(__, defineOrResetBuildingFieldAlt, v, $false, $false);
  _.ln();
  __.out(" }").ln();
  __.out(" ");
}

___.dl();__.ln();
___.out(" this.");
$(__, v.name());
___.out(" .putAll(key, values);").ln();
___.out(" ");
$(__, nondefaultSetInBuilder, v);
___.ln();
___.out(" return ");

final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
___.dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
  __.dl();__.out("(");
  $(__, type_builderReturnThis_1267082624.typeBuilder());
  __.out(" ");
}
___.dl();__.out("this");
if ($if($(not, v.isBuilderParameter))) {
    __.dl();___.ln();
    ___.ln();
    ___.out("  /**").ln();
    ___($cast(v)).ln();
    ___.out("   * Put one entry to the ");
    ___.out("   * @param key The key in the ");
    ___($cast(type)).ln();
    ___.out("   * @param value The associated value in the ");
    ___($cast(type)).ln();
    ___.out("   * @return {@code this} builder for use in a chained invocation").ln();
    ___.out("   */").ln();
    ___.out("  ");
    ___($cast(type)).ln();
    ___.out("  ");
    }
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
   __.dl();
   if ($if(a_deprecation_286924011.deprecated)) {
      __.dl();__out("@Deprecated");
   }
   __.dl();
}
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
   __.dl();
   if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or,
      a_builderInitAccess_991723715.isBuilderSwitcher()))) {
      __.dl();__dl();
      if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
         __.dl();__out("private ");
      }
      __.dl();
   } else {
      __.dl();$(__, a_builderInitAccess_991723715.getInitializerAccess());
   }
   __.dl();
}
__out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
   __.dl();
   if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
      __.dl();$(__, type_builderReturnType_1031721330.typeBuilder());
   } else {
      __.dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
      $(__, type_builderReturnType_1031721330.generics().args());
   }
   __.dl();
}
__out(" ");
$(__, v.names.put());
} else if ($if(v.nullElements.skip())) {
  __.dl();__.ln();
  __.out("   if (value != null");
  __.dl();
  if ($if($(not, v.isPrimitiveElement()))) {
    __.dl();__.out(" && key != null");
    __.dl();__.ln();
    $.(__, v.name());
    __.out(".put(key, value);").ln();
    __.out("   ");
  } else {
    __.dl();__.ln();
    __.out("    this.");
    $.(__, v.name());
    __.out(".put(key, value);").ln();
    __.out("   ");
  }
} else {
  __.dl();__.ln();
  __.out("   this.");
  $.(__, v.name());
  __.out(".put(").ln();
  __.out("   ");
  $.(__, requireNonNull, type);
  __.out("(key, ")");
  $.(__, v.name());
  __.out(" key");.ln();
  __.out("   ");
  $.(__, requireNonNull, type);
  __.out("(value, \"");
  $.(__, v.name());
  __.out(" value\"));
  __.ln();
  __.out("   ");
}

} dl();__ln();
__out("   ");

} else {
  __.dl();__.ln();
  __.out("   this.");
  $.(__, v.name());
  __.out(".put(key, value);").ln();
  __.out("   ");
}

} dl();__ln();
__out("   ");

$.(__, nondefaultSetInBuilder, v);
__ln();
__out("   return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
  __.dl();___.out("(");
  ___.out(type_builderReturnThis_1267082624.typeBuilder());
  ___.out(" ");
}
___.dl();___.out("this");
}
___.out(":").ln();
___.out(" ");ln();
___.ln();
___.out("/**").ln();
___.out(" * Put one entry to the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
  ___.outDocRef(a_sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
___.out(" map. Nulls are not permitted").ln();
___.out(" * @param entry The key and value entry").ln();
___.out(" * @return [ @code this ] builder for use in a chained invocation").ln();
___.out(" */").ln();
___.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =
  $cast(type);
  ___.dl();
  if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
  "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
    __.dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
  __.dl();
}
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  ___.dl();
  if ($if(a_deprecation_286924011.deprecated)) {
    __.dl();___.out("@Deprecated");
  }
  __.dl();
}
___.ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
__dl();
if ($if(a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher()) ) {
  __dl();__dl();
  if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory()) ) {
    __dl();__out("private ");
  }
  __dl();
} else {
  __dl();$__ a_builderInitAccess_991723715.getInitializerAccess();
}
__dl();
__out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
  __dl();$__ type_builderReturnType_1031721330.typeBuilder();
} else {
  __dl();$__ type_builderReturnType_1031721330.typeBuilder().simple();
  __($__, type_builderReturnType_1031721330.generics().args());
}
__dl();
__out(" ");
$__ v.names.put();
__out("(java.util.Map.Entry<");
$__ gE);
__out(" , ? extends ");
$__ wV);
__out("> entry) {").ln();
__out(" ");
__dl();
if ($if(v.isNullCollector())) {
  __dl();__ln();
  __out(" if (this.");
  $__ v.name());
  __out(" == null") "{").ln();
  __out(" ");
  __($__, defineOrResetBuildingFieldAlt, v, $$false, $$false);__ln();
  __out(" ");__ln();
}
__out("    ");

} else {
  __dl();__ln();
  __out("    this.");
  $(__, v.name());
  __out(".put(entry);").ln();
  __out("    ");

} __dl();__ln();
__out("    ");
$(__, nondefaultSetInBuilder, v);
__ln();
__out("    return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
  __dl();__out("(");
  $(__, type_builderReturnThis_1267082624.typeBuilder());
  __out(") ");

} __dl();__out("this");

} __out(;">\n;\n__out("  ");
__out("  } ");
__out("  ");
__dl();
if ($if($if(not, type.isUseStrictBuilder()))) { __dl();__ln();
  __ln();
  __out("    /* */").ln();
  __out("    * Sets or replaces all mappings from the specified map as entries for the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

} __out("    map. Nulls are not permitted");
__dl();
if ($if(v.isNullabe())) {
  __dl();__out("    as keys or values, but parameter itself can be null");

} __dl();__ln();
__out("    * @param entries The entries that will be added to the ");
$(__, v.name());


__out("  map").ln();
__out("  * @return {@code this} builder for use in a chained invocation").ln();
__out("  */").ln();
__out("  ");
$___.eachLine, v.initialInjectedAnnotations();
___.ln();
___.out("  ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =
$cast(type);
  ___.dl();
  if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue")) {
    ___.dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
  ___.dl();
}
___.ln();
___.ln();
___.out("  ");
$___.eachLine, v.getBuilderAttributeAnnotation();
___.ln();
___.out("  ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 =
$cast(v);
  ___.dl();
  if ($if(a_deprecation_286924011.deprecated)) {
    ___.dl();___.out("@Deprecated");
  }
  ___.dl();
}
___.ln();
___.ln();
___.out("  ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 =
$cast(v);
  ___.dl();
  if ($if($(a_builderInitAccess_991723715, isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher()))) {
    ___.dl();___.dl();
    if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
      ___.dl();___.out("private ");
    }
    ___.dl();
  } else {
    ___.dl();$(___.a_builderInitAccess_991723715.getIntializerAccess());
  }
  ___.dl();
}
final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if (!$if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
  __dl();$(__, type_builderReturnThis_1267082624.typeBuilder());
} else {
  __dl();$__ type_builderReturnThis_1267082624.typeBuilder().simple();
$(__, type_builderReturnThis_1267082624.generics().args());
}
__dl();
__out(" ");
$(__, v.names.init);
__out("()");
$(__, v.atNullability());
__dl();
if (!$if(v.isMultimapType())) {
  __dl();$__ guava;
  __out(".collect.Multimap");
} else {
  __dl();__out("java.util.Map");
}
__dl();__out("<");
$(__, gE);
__out(",. ? extends ");
$(__, wV);
__out("> entries) ").ln();
__out(" ");
__dl();
if (!$if(v.isNullValue())) {
  __dl();__ln();
  __out(" if (entries == null) ").ln();
  __out(" ");
$(__, defineOrResetBuildingFieldAlt, v, $false, $true);
  __ln();
  __out(" ");
$(__, nondefaultSetInBuilder, v);
  __ln();
  __out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
  __dl();
  if (!$if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
__dl();__out("(");
$___.type_builderReturnThis_1267082624.typeBuilder();
__out(" ")
}
__dl();__out("this");
}
__out(";").ln();
__out("  ");

{final org.immutables.value.processor.meta.ValueAttribute v_defineOrResetBuildingField_1809684382 = $cast(v);
final java.lang.Boolean declare_defineOrResetBuildingField_1809684382 = $$false;
$___.defineOrResetBuildingFieldAlt, v_defineOrResetBuildingField_1809684382,
declare_defineOrResetBuildingField_1809684382, $$false);
}
__ln();
__out(" ");
$___.nondefaultSetInBuilder, v);
__ln();
__out("  return ");
$___.v.names.putAll();
__out("(entries); ").ln();
__out("  ");
__out(" ");
}
__dl();__ln();
__out(" ");
__$_.nondefaultSetInBuilder, v);
__ln();
__out(" ");
$___.nondefaultSetInBuilder, v);
__ln();
__out(" ");
$___.nondefaultSetInBuilder, v);
__ln();
__out(" ");
$___.nondefaultSetInBuilder, v);
__ln();
__out(" ");
$___.nondefaultSetInBuilder, v);
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__out(" ");
$___.nondefaultSetInBuilder, v);
__ln();
__out(" ");
$___.nondefaultSetInBuilder, v);
__ln();
__out(" ");
$___.nondefaultSetInBuilder, v);
__ln();
__out(" ");
$___.nondefaultSetInBuilder, v);
__ln();
__out(" ");
__out(" map").ln();
__out(" * @return \{ @code this \} builder for use in a chained invocation\} ").ln();
__out(" */").ln();
$___.ln();
$___.out(" ");
$___.ln();
$___.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
___.dl();
if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue"))
{___.dl();$___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
___.dl();}
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
___.dl();
if ($if(a_deprecation_286924011.deprecated))
{___.dl();$___.out("@Deprecated");
}
___.dl();}
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
___.dl();
if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher()))
{___.dl();___.dl();
if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory()))
{___.dl();___.out("private ");
}
___.dl();} else {
___.dl();$___.dl();
if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory()))
{___.dl();___.out("private ");
}
___.dl();
} else {
___.dl();$_._.a_builderInitAccess_991723715.getInitializerAccess();
}
___.dl();
} __.out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
___.dl();
}
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    __.dl();$(__, type_builderReturnType_1031721330.typeBuilder());
} else {
    __.dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
    $(__, type_builderReturnType_1031721330.generics().args());
}
___.dl();
___.out(" ");
$(__, v.names.putAll());
___.out("(");
___.dl();
if ($if(v.isMultimapType())) {
    __.dl();$(__, guava);
    ___.out(".collect.Multimap");
} else {
    __.dl();___.out("java.util.Map");
}
___.dl();___.out("<");
$(__, gE);
___.out(" , ? extends ");
$(__, wV);
___.out(" > entries { ").ln();
___.out(" ");
___.dl();
if ($if(v.isNullableCollector())) {
    __.dl();___.ln();
    ___.out(" if (this.");
    $(__, v.name());
    ___.out(" == null) { ").ln();
    ___.out(" ");
    $(__, defineOrResetBuildingFieldAlt, v, $$false, $$false);___ln();
    ___.out(" ");
}
___.dl();___ln();
___.out(" ");
___.dl();
if ($if(v.isGenerateJdkOnly())) {
    __.dl();___.ln();
    ___.out(" for (java.util.Map.Entry<");
    $(__, gE);
    if ($if(v.nullElements.allow())) {
        __dl();__ln();
        __out("      this.");
        __out("    .put(k, v);").ln();
        __out("      ");
    } else if ($if(v.nullElements.skip())) {
        __dl();__ln();
        __out("      if (k != null && v != null) this.");
        __out("    .put(k, v);").ln();
        __out("      ");
    } else {
        __dl();__ln();
        __out("      this.");
        __out("    .put(").ln();
        __out("      ");
        __out("    .requireNonNull, type);"
        __out("(k, ").ln();
        __out("      .key\")").ln();
        __out("      ");
        __out("    .requireNonNull, type);"
        __out("(v, ").ln();
        __out("      ");
        __out("    .value\")").ln();
        __out("      ");
    }
} else {
    __dl();__ln();
    __out("  }").ln();
    __out("      ");
} else {
    __dl();__ln();
    __out("    ");
}
__out("    this.");
$___.name());
___.putAll(entries);).ln();
___.(
}
___.dl();___.ln();
___.(" ");
$___.nondefaultSetInBuilder, v);
___.ln();
___.(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
___.dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
___.dl();___.out("(");
$___.type_builderReturnThis_1267082624.typeBuilder();
___.out(" )");
}
___.dl();___.out("this");

___.(":").ln();
___.(" ").ln();
___.(" ");
___.dl();___.index++;
___.first = false;
}
___.dl();___.ln();
___.(" ");
} else if ($if(v.isArrayType())) {
___.dl();___.ln();
___.ln();
___.(" /**").ln();
___.out(" * Initializes the value for the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
```java
}__out("</em>").ln();
__out(" ");
}
__dl();__ln();
__out(" * @param ");
$___.v.name();
__out(" The elements for ");
$___.v.name();
__ln();
__out(" * @return [ @code this } builder for use in a chained invocation”).ln();
__out(" */").ln();
__out(" ");
$___.eachLine, v.initializeInjectedAnnotations();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
__dl();
if (Sif($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue")) {
__dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
__dl();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
__dl();
if (Sif($(a_varargsSafety_1368213209.isNonRawElementType(), or,
a_varargsSafety_1368213209.hasTypeVariables))) {
__dl();__out("@SafeVarargs @SuppressWarnings("varargs")");
}
__dl();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if (Sif($(a_deprecation_286924011.deprecated)) {
__dl();__out("@Deprecated");
}
__dl();
__ln();
__out(" ");
$___.eachLine, v.getBuilderAttributeAnnotation();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if (Sif($(a_deprecation_286924011.deprecated)) {
__dl();__out("@Deprecated");
}
```
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
   __.dl();
   if ($if(a_builderInitAccess_991723715.isBuilderParameter, or,
         a_builderInitAccess_991723715.isBuilderSwitcher())) {
       __.dl();
       if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
         __.dl();
         if ($if(a_builderInitAccess_991723715.getIntializerAccess())) {
           __.dl();
           __.out("private ");
         } else {
           __.dl();$(__, a_builderInitAccess_991723715.getInitializerAccess());
         }
       } else {
         __.dl();$(__, a_builderInitAccess_991723715.getInitializerAccess());
       }
     }
   __.out("final ");
   {final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
     __.dl();
     if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
       __.dl();$(__, type_builderReturnType_1031721330.typeBuilder());
     } else {
       __.dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
       $(__, type_builderReturnType_1031721330.generics().args());
     }
   }___.dl();
   ___.out(" ");
   $(__, v.names.init);
   ___.out(" ");
   $(__, v.getElementType());
   ___.out("...");
   $(__, v.name());
   ___.out(" ");___.ln();
   ___.out(" ");
   $(__, checkNotIsSet, v);
   ___.ln();
   ___.out(" this.");
   $(__, v.name());
   ___.out(" = ");
   $(__, valueFromValue, v, v.name());
   ___.ln();
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```java
  } else {
    __dl();__ln();
    __out(" ");
    __dl();
    if ($if(v.getConstructorParameters()))
      __dl();__ln();
      __out(" */* Constructs and initializes the value for the ");
      {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
        __out(" @param ");
        __out(" The value for ");
        __out(" ");
      }
  }
}
```

if ($if(c.isNullable())) {
    __.dl();___.out("(can be {@code null})");
}

___.dl();___.ln();
__.out(" ");
___.dl();_it3.index++;
_it3.first = false;
}
___.dl();___.ln();
__.out("  * @return {@code this} builder for use in a chained invocation").ln();
__.out("  */");
___.out(" ");
$(__, eachLine, v.elementInitializerInjectedAnnotations());
___.ln();
__.out("  ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
    ___.dl();
    if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
      "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
        __.dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
    }
    ___.dl();
}
___.ln();
__.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
    ___.dl();
    if ($if($(a_deprecation_286924011.deprecated)) {
        __.dl();___.out("@Deprecated");
    }
    ___.dl();
}
___.ln();
__.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
    ___.dl();
    if ($if($(a_deprecation_286924011.deprecated)) {
        __.dl();___.out("@Deprecation");
    }
    ___.dl();
}
___.ln();
__.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
    ___.dl();
    if ($if($(a_deprecation_286924011.deprecated)) {
        __.dl();___.out("@Deprecation");
    }
    ___.dl();
}
___.ln();
__.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
    ___.dl();
    if ($if($(a_deprecation_286924011.deprecated)) {
        __.dl();___.out("@Deprecation");
    }
    ___.dl();
}
___.ln();
__.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
    ___.dl();
    if ($if($(a_deprecation_286924011.deprecated)) {
        __.dl();___.out("@Deprecation");
    }
    ___.dl();
}
___.ln();
__.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
    ___.dl();
    if ($if($(a_deprecation_286924011.deprecated)) {
        __.dl();___.out("@Deprecation");
    }
    ___.dl();
}
___.ln();
__.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
    ___.dl();
    if ($if($(a_deprecation_286924011.deprecated)) {
        __.dl();___.out("@Deprecation");
    }
    ___.dl();
}
__out(" * @return [ @code this ] builder for use in a chained invocation ").ln();
__out(" */").ln();
__out(" ");
$___.eachLine, v.initializer InjectedAnnotations());
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =
$cast(type);
___.dl();
if ($if($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue")) {
  ___.dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
___.dl();
}
___.ln();
___.out(" ");
$___.eachLine, v.getBuilderAttributeAnnotation());
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
___.dl();
if ($if(a_deprecation_286924011.deprecated)) {
  ___.dl();___.out("@Deprecated");
}
___.dl();
}
___.ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
___.dl();
if ($if($a_builderInitAccess_991723715, isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher()))) {
  ___.dl();___.dl();
  if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory()) {
    ___.dl();___.out("private ");
  }
  ___.dl();
} else {
  ___.dl();$___.a_builderInitAccess_991723715.getInitializerAccess());
}
___.dl();
}
___.out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
    __dl();
    if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
        __dl();$___.type_builderReturnType_1031721330.typeBuilder();
    } else {
        __dl();$___.type_builderReturnType_1031721330.typeBuilder().simple();
        $___.type_builderReturnType_1031721330.generics().args();
    }
    __dl();
    __.out(" ");
    $___.v.names.init;
    __.out(" ");
    $___.v.atNullability();
    __.out(" ");
    $___.v.getType();
    __.out(" ");
    $___.v.name();
    __.out(" ");
    __.ln();
    __dl();
    if ($if($(v.isBuilderSwitcher(), and, type.kind().isFactory()))) {
        __dl();___.dl();___.ln();
        __.out(" this.");
        $___.v.name();
        __.out(" = ");
        $___.v.name();
        __.out(" ");
        __.ln();
    } else {
        __dl();___.ln();
        __.out(" this.");
        $___.v.name();
        __.out(" = ");
    }
}

{final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 = $cast(v);
    final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new
    org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = this;
            $(___.valueFromValue, v, v.name());
            __dl();
        }\);___.dl();___.dl();
        if ($if(v_maybeToBuilder_53814988.isAttributeBuilder()) {
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@Override public void run(org.immutables.generator.Templates.Invokation __) {
  __.dl();$(__, expression_maybeToBuilder_53814988);
  __.dl();
}

} else {
  __.dl();$(__, expression_maybeToBuilder_53814988);
}
  __.dl();
} __.out(";").ln();
__out(" ");

___.dl();___.ln();
___.out(" ");
$(__, nondefaultSetInBuilder, v);
___.ln();
___.out(" ");
$(__, mandatorySetInBuilder, v);
___.ln();
___.out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
  ___.dl();
  if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
    ___.dl();___.out("(");
    $(__, type_builderReturnThis_1267082624.typeBuilder());
    ___.out(" )");
  }
  ___.dl();___.out("this");
}
___.out(";").ln();
___.out(" }").ln();
___.out(" ");
___.dl();
if ($if(v.isAttributeBuilder())) {
  ___.dl();___.ln();
  ___.ln();
  ___.out(" /**").ln();
  ___.out(" * Returns a builder for ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
  $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
* Once called, the attribute builder field is set to a new instance of the builder. * If called more than once, returns the same builder instance.

```java
$___.out(".");ln();
$___.out("   *");ln();
$___.out("   Once called, the attribute builder field is set to a new instance of the builder.");ln();
$___.out("   * If called more than once, returns the same builder instance.");ln();
$___.out(" *");
$___.out(" ");
($___.eachLine, v.getBuilderAttributeAnnotation());
$___.ln();
$___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  dl();
  if ($if(a_deprecation_286924011.deprecated)) {
    dl();___.out("@Deprecated");}
  }
  dl();
___.ln();
$___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
  dl();
  if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher()))) {
    dl();
    if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
      dl();___.out("private ");
    }
  } else {
    dl();$___.a_builderInitAccess_991723715.getIntializerAccess();
  }
  dl();
___.ln();
} final org.immutables.value.processor.meta.AttributeBuilderDescriptor
n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
__$_. n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName();
}```
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if ($if(a_deprecation_286924011.deprecated)) {
    __.dl();__out("@Deprecated");
}
__.dl();}
__.ln();__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
    __.dl();
    if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or,
        a_builderInitAccess_991723715.isBuilderSwitcher()))) {
        __.dl();__dl();
        if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
            __.dl();__out("private ");
        }
    } else {
        __.dl();$(__, a_builderInitAccess_991723715.getIntializerAccess());
    }
}
__out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
    __.dl();
    if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
        __.dl();$(__, type_builderReturnType_1031721330.typeBuilder());
    } else {
        __.dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
        $(__, type_builderReturnType_1031721330.generics().args());
    }
}
__out(" ");
$(__, v.names.setBuilder());
__out(" ");
$(__, v.notNullability());
$(__, v.getAttributeBuilderDescriptor().getQualifiedBuilderTypeName());
__out(" ");
$(__, v.name());
__out(" ") {"},ln();
__out(" ");
$(__, checkNotIsSet, v);
___ln();
___out("   this.");
$(__, v.name());
___out(" = ");
$(__, v.name());
___out(";").ln();
___out(" ");
$(__, nondefaultSetInBuilder, v);
___ln();
___out(" ");
$(__, mandatorySetInBuilder, v);
___ln();
___out(" return ");

[final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
___dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
  ___dl();___out("(");
  $(__, type_builderReturnThis_1267082624.typeBuilder());
  ___out(" ");
}
___dl();___out("this");

}
___out(";").ln();
___out(" ").ln();
___out(" ");

}
___dl();___ln();
___out(" ");

}
___dl();___ln();
___out(" ");
___dl();___it2.index++;
  ___it2.first = false;
}
___dl();___ln();
___dl();
if ($if(type.isGenerateClearBuilder())) {
  ___dl();___ln();
  ___ln();
  ___out(" /**").ln();
  ___out(" * Clear the builder to the initial state.").ln();
  ___out(" * @return [@code this] builder for use in a chained invocation*").ln();
  ___out(" */").ln();
  ___out(" ");
final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  __dl();
  if ($if($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
    __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
  __dl();
}

final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
  __dl();__dl();
} else {
  __dl();
}

$___.dl();
$___.out(" public ");
final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
  __dl();S(___.type_builderReturnType_1031721330.typeBuilder());
} else {
  __dl();S(___.type_builderReturnType_1031721330.typeBuilder().simple());
  $(___.type_builderReturnType_1031721330.generics().args());
}
__dl();
$___.out(" ");
$___.type.names().clear();
$___.out(" ");__ln();
$___.out(" ");

{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(positions.longs())) {
    __dl();__ln();
    $___.out(" ");
    $___.disambiguateField, type, "initBits");
    $___.emptyIfZero, l.index);
    $___.out(" = ");
    $___.literal.hex, l.occupation);
    $___.out(";");__ln();
    $___.out(" ");
    __dl();_it2.index++;
    _it2.first = false;
  }
}
__dl();__ln();
__out(" ");

{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(nondefaultsPositions.longs())) {
    __dl();__ln();
    $___.out(" ");
    $(___.disambiguateField, type, "optBits");
    $___.emptyIfZero, l.index);
__out(" = 0; ").ln();
__out(" ");
__dl();__it2.index++;
__it2.first = false;
}
__dl();__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
__dl();__ln();
__out(" ");
__dl();
if ($if($(v.isContainerType(), and, $(v.isGenerateJdkOnly(), and, $(v.isNullableCollector(), andnot,
v.isNullable())))}) {
__dl();__dl();__ln();
__out(" if (";
$___.v.name());
__out(" != null ) ").ln();
__out(" ");
$___.v.name());
__out(" .clear()");.ln();
__out(" } ").ln();
__out(" ");
} else {
__dl();__ln();
__out(" ");
$___.defineOrResetBuildingFieldAlt, v, $$false, v.isNullableCollector());
__ln();
__out(" ");
}
__dl();__ln();
__out(" ");
__dl();__it2.index++;
__it2.first = false;
}
__dl();__ln();
__out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if ($if(type_builderReturnThis_1267082624ARGERBuilder().isExtending)) {
__dl();__out("(");
$___.type_builderReturnThis_1267082624.typeBuilder();
__out(" ");
}
__dl();__out("this");
if ($if(type.kind().isFactory())) {
    __dl();__ln();
    __out(" * Invokes @code ")
    $___.type.factoryOf().
    __out("(...) using the collected parameters and returns the result of the invocation").ln();
    __out(" * @return A result of type @code ");
    __($__.type.typeValue());
    __out(""").ln();
    __out(" ");
} else {
    __dl();__ln();
    __out(" * Builds a new @link ");
    __($__.type.typeValue().relativeRaw());
    __out(" ");
    __($__.type.typeValue().simple());
    __out(".");ln();
    __out(" * @return An immutable instance of ");
    __($__.type.name());
    __ln();
    __out(" ");
}

__dl();__ln();
__out(" * @throws ");
__($__.type.getThrowForInvalidImmutableState());
__out(" if any required attributes are missing").ln();
__out(" */").ln();
final org.immutables.generator.Templates.Invokable returnType = new org.immutables.generator.Templates.Invokable returnType = new org.immutables.generator.Templates.Invokable returnType = new
} else {
    __dl();$(__.type.typeValue());
}
__dl();__dl();
};__dl();__ln();
__dl();
if ($if(type.throwing)) {
    __dl();__ln();
    __out(" public ");
$(__.returnType);
    __out(" ");
$(__.output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();$___.type.names().build);
        __out("() ").ln();
        __out(" throws ");
        {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
            for (final java.lang.String t : $in(type.throwing)) {
                if ($if(!$(_it2.first))) {
                    __dl();__out(" , ");
                }
                __dl();$(__.t);
                __dl();_it2.index++; _it2.first = false;
            }
        __dl();__out(" { ");
        __dl();
    });
    __ln();
}
} else {
    __dl();__ln();
    __out(" public ");
$(__.returnType);
    __out(" ");
$(__.type.names().build);
    __out(" () ").ln();
}
__dl();__ln();
__out(" ");
__dl();
if ($if(positions.longs())) {
    __dl();__ln();
    __out(" ");
    __dl();
}
```java
__dl();
if ($if(type.isUseCompactBuilder())) {
   __dl();__ln();
   __out(" if (");
   {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
      for (final org.immutables.value.processor.meta.LongBits.LongSet1 : $in(positions.longs())) {
         __dl();__dl();
         if ($if($not(_it2.first))) {
            __dl();__out(" ||");
         } else {
            __dl();__ln();
            __out(" checkRequiredAttributes();"),ln();
            __out(" ");
         }
         __dl();__out(" ");ln();
         __out(" throw new java.lang.IllegalStateException(formatRequiredAttributesMessage());"),ln();
         __out(" ");ln();
         __out(" ");
      } else {
         __dl();__ln();
         __out(" checkRequiredAttributes();"),ln();
         __out(" ");
      }
   }
   __dl();__ln();
   __out(" ");
   __out(" ");
}
```

public boolean $(__, type.names().canBuild());

if ($if(positions.longs())) {
  __dl();__ln();
  __out(" return ");
  final org.immutables.generator.Templates.Iteration_it2 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(positions.longs())) {
    __dl();__ln();
    if ($if($(not, _it2.first))) {
      __dl();__out(" && ");
      __dl();$(__, disambiguateField, type, "initBits");
      $(__, emptyIfZero, l.index);
      __out(" == 0");
      _it2.index++;
      _it2.first = false;
    }
    __dl();__out(";").ln();
    __out(" ");
  }
} else {
  __dl();__ln();
  __out(" return true;").ln();
  __out(" ");
}

if ($if(type.isGenerateBuildOrThrow())) {
  __dl();__ln();
  __out(" ");
  __dl();
  if ($if(classpath.isJava8(), ornot, type.isGenerateJdkOnly())) {
    __dl();__ln();
    __out(" */").ln();
    __out(" */");
  }
}

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} else {
    __.dl();$___.guava;
    __.out(".base.Function");
}
___.dl();
}
___.out("<String, BOT> exceptionSupplier").ln();
___.out("    throws BOT");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final java.lang.String t : $in(type.throwing)) {
    ___.dl();___.out(",
"");
    $(___., t);
    ___.dl();_it2.index++;
    _it2.first = false;
}
}   ___.dl();___out(" ").ln();
    ___.out(" ");
    ___dl();
    if ($if(positions.longs())) {
    ___dl();___ln();
    ___out("    checkRequiredAttributesOrThrow(exceptionSupplier);").ln();
    ___out(" ");
    }
    ___dl();___ln();
    ___out(" ");
$(___., builderReturnValue, type);
___ln();
    ___out(" ").ln();
    ___out(" ");
}
___dl();___ln();
___out(" ");
} else {
    __.dl();
    __.out("    ");
    $(___., p.names.isSet());
    __.out("() ").ln();
    __.out("    return ");
$(__, disambiguateField, type, "optBits");
$(__, emptyIfZero, pos.index);
$__(" & OPT_BIT_ ");
$(__, toConstant, p.name());
$__(" != 0;")
$__(" ");
$__(" ");
__.dl();_it2.index++;
_it2.first = false;
}
__.dl();__.ln();
__.dl();
if ($if($(not, type.isUseCompactBuilder())))
  __dl();__ln();
  __out(" ");
  {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.ValueAttribute m : $in(mandatories)) {
     final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($(positions, m));
     __dl();__ln();
     __ln();
     __out(" private boolean ");
     $(__, m.names.isSet());
     __out("() {").ln();
     __out(" return (");
     $(__, disambiguateField, type, "initBits");
     $(__, emptyIfZero, pos.index);
     __out(" & INIT_BIT_ ");
     $(__, toConstant, m.name());
     __out(" == 0:").ln();
     __out(" ");
     __out(" ");
     __dl();_it2.index++;
     _it2.first = false;
   }
   __dl();__ln();
   __out(" ");
   __dl();
}
if ($if($(type.isUseStrictBuilder(), and, $(nondefaultsPositions.longs(), or, positions.longs())))
  __dl();__ln();
  __out(" ");
  {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.ValueAttribute m : $in(mandatories)) {
     final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($(positions, m));
     __dl();__ln();
     __ln();
     __out(" private static void checkNotIsSet(boolean isSet, String name) { ");
     __out(" if (isSet) throw new java.lang.IllegalStateException("Builder of ");
     $___.name();
     __out(" is strict, attribute is already set: ");
     __out(" ");
     __out(" ");
     __out(" ");
  }
if ($if(positions.longs())) {
  __.dl();
  __.ln();
  __.out("  ");
  __.dl();

  if ($if(type.isGenerateBuildOrThrow())) {
    __.dl();
    __.ln();
    __.out("  ");
    __.ln();
    __.out("  ");
    __.ln();
    __.out("  ");
    __.ln();
    __.out("  ");
    __.ln();
    __.out("  ");
    __.dl();
  }
}

if ($if(type.isGenerateBuildOrThrow())) {
  __.dl();
  __.ln();
  __.out("  ");
  __.dl();

  if ($if(classpath.isJava8(), ornot, type.isGenerateJdkOnly())) {
    __.dl();
    __.ln();
    __.ln();
    __.out(" private <T extends Exception> void checkRequiredAttributesOrThrow(");
    __.dl();
    if ($if(classpath.isJava8())) {
      __.dl();
      __.out(" java.util.function.Function");
      __.dl();
      __.out(" ");
    } else {
      __.dl();
      __.out(" java.util.function.Function");
    }
    __.dl();
  }
  __.out("<String, T> exceptionSupplier) throws T ");
  __.ln();
  __.out("  ");
  __.ln();
  __.out("  ");
  __.ln();
  __.out("  ");
  __.ln();
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  __.ln();
  __.out("  ");
  __.ln();
  __.out("  ");
  __.ln();
  __.out("  ");
}

}
```java
if ($if(positions.longs())) {
    __.dl(); __.ln();
    __.out("  ");
    __.dl();
    if ($if(type.getThrowForInvalidImmutableState().hasAttributeNamesConstructor)) {
        __.dl(); __.ln();
        __.out("  ");
        __.dl();
        if ($if($(s_atVar_1287436599, allowsClasspathAnnotation, "com.google.errorprone.annotations.Var"))) {
            __.dl(); __.out("@com.google.errorprone.annotations.Var ");
        }
        __.out(" int c = 0; ");
        __.out(" ");
        __.dl();
        if ($if(type.isUseCompactBuilder())) {
            __.dl(); __.ln();
            __.out(" ");
            final org.immutables.generator.Templates.Iteration it2 = new org.immutables.generator.Templates.Iteration();
            for (final org.immutables.value.processor.meta.ValueAttribute m : $in(mandatories)) {
                final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($(positions, m));
                __.dl(); __.ln();
                __.out(" if ("");
                $(__, disambiguateField, type, "initBits");
                $(__, emptyIfZero, pos.index);
                __.out(" & INIT_BIT_");
                $(__, toConstant, m.name());
```
__out("(! = 0) attributes");
$(__, ")[";
__out("c++");
$(__, "]");
__out(" = \n");
$(__, m.names.raw);
__out("\n").ln();
__out(" ");
__dl();_it2.index++;
_it2.first = false;
})
__dl();__ln();
__out("  ");

} else {
  __dl();__ln();
  __out("  ");
  final org.immutables.generator.Templates.Iteration _it2 = new
org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute m : $in(mandatories)) {
    __dl();__ln();
    __out("  if (!")
$(__, m.names.isSet());
    __out("() attributes");
$(__, ")[
    __out("c++");
$(__, "]");
    __out(" = \n");
$(__, m.names.raw);
    __out("\n").ln();
    __out(" ");
    __dl();_it2.index++;
    _it2.first = false;
  })
    __dl();__ln();
    __out("  ");

  }
  __dl();__ln();
  __out("  return java.util.Arrays.copyOf(attributes, c);").ln();
  __out(" ").ln();
  __out(" ");

}
__dl();__ln();
__out("  if ($if($type.isGenerateBuildOrThrow(), ornot,
type.getThrowForInvalidImmutableState().hasAttributeNamesConstructor)) { 
  __dl();__ln();
  __ln();
  __out(" private String formatRequiredAttributesMessage() {").ln();
  __out(" java.util.List<String> attributes = new java.util.ArrayList");

$(__, asDiamond, "String");
  __out("();").ln();
  __out(" ");
  __dl();
  if ($if(type.isUseCompactBuilder())) {
    __dl();__ln();
    __out(" final org.immutables.generator.Templates.Iteration _it2 = new
    org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute m : $in(mandatories)) {
      __dl();__ln();
      __out(" if (!")
      $(__, disambiguateField, type, "initBits");
      $(__, emptyIfZero, pos.index);
      __out(" & INIT_BIT_");
      $(__, toConstant, m.name());
      __out(" ! = 0) attributes.add(";
      $(__, m.names.raw);
      __out("\n");
      __out(";");
      __dl();__it2.index++; _it2.first = false;
    }
    __dl();__ln();
    __out(" ");
  } else {
    __dl();__ln();
    __out(" ");
    [final org.immutables.generator.Templates.Iteration _it2 = new
    org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute m : $in(mandatories)) {
      __dl();__ln();
      __out(" if (!")
      $(__, m.names.isSet());
      __out(")) attributes.add(";
      $(__, m.names.raw);
      __out("\n");
      __out(";");
      __dl();__it2.index++; _it2.first = false;
    }
  }}
```java
    `.dl(); `.ln();
    `.out("    ");
}
    `.dl(); `.ln();
    `.out("    return " + name);
    `.dl(); `.ln();
    `.out("    }");
    `.ln();
    `.out("    ");
}
    `.dl(); `.ln();
    `.out("    ");
    `.ln();
    `.dl();
    if (`if(type.constitution.hasImmutableInBuilder)) {
        `.dl(); `.ln();
        `.out("    ");
        `.ln();
        `.out("    ");
        `.dl();
        if (`if(type.isGenerateWithInterface)) {
            `.dl(); `.ln();
            `.out("    ");
            `.ln();
            `.out("    ");
            `.dl();
        }
    }
    `.dl(); `.ln();
    `.dl();
    if (`if(topLevel)) {
        `.dl(); `.ln();
        `.out("    ");
        `.ln();
        `.out("    ");
        `.dl();
    }
    `.dl(); `.ln();
```
if ($if($topLevel, and, $type.isGenerateJdkOnly(), and, $type.isUseCollectionUtility())) {
  $.dl(); $.ln();
  $.out("  ");
  $($.collectionUtility, type);
  $.ln();
}
$.dl(); $.ln();
$.dl();
if ($if($type.detectAttributeBuilders())) {
  $.dl(); $.ln();
  $.out("  ");
  $($.attributeBuilderTransformUtilities, type);
  $.ln();
}
$.dl(); $.ln();
$.dl();$.out("}").ln();
$.dl();
if ($if($type.getTelescopicBuild(), andnot, $topLevel)) {
  $.dl(); $.ln();
  $($.generateTelescopicBuilderInterfaces, type);
  $.ln();
}
$.dl(); $.ln();
$.dl(); _it1.index++;
_it1.first = false;
}
$.dl(); $.ln();
$.dl();
org.immutables.generator.Templates.Invokable builderReturnValue() {
  return builderReturnValue;
}
private final org.immutables.generator.Templates.Invokable builderReturnValue = new FragmentDispatch(1, 19);
void _t19__builderReturnValue(org.immutables.generator.Templates.Invokation __) {
  $.dl(); final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  $.ln();
  $.dl();
  if ($if($type.kind().isFactory())) {
    $.dl(); $.ln();
    $($.returnFactoryBuild, type);
    $.ln();
  } else if ($if($type.isUseSingleton(), andnot, $type.getSettableAttributes())) {
    $.dl(); $.ln();
    $.out("return ");
  }
}
$(__, type.factoryInstance().relative());
__out("();").ln();
} else if (Sif(type.isGenerateBuilderUseCopyConstructor())) {
__dl();__ln();
$___.generateReturnBuilderConstructed, type);
__ln();
}

} else {
__dl();__ln();
__out("return ");
{final org.immutables.value.processor.meta.ValueType type_validated_1881291508 = $cast(type);
final java.lang.Boolean qualified_validated_1881291508 = $cast($true);
final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new
org.immutables.generator.Templates.Fragment(0) {
@Override public void void run(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = this;
__out("new ");
$___.type.typeImmutable().relative());
__out("(this)");
__dl();
});__dl();__dl();
if (Sif(type_validated_1881291508.isUseValidation())) {
__dl();__dl();
if (Sif(qualified_validated_1881291508)) {
__dl();$___.type_validated_1881291508.typeImmutable().relativeRaw());
__out("");
}
__dl();__out("validate(");
$___.expression_validated_1881291508);
__out("()");
}
else {
__dl();$___.expression_validated_1881291508);
}
__dl();
}
__out(";").ln();
}
__dl();__ln();
__dl();
};

org.immutables.generator.Templates.Invokable checkRequiredOrThrow() {
return checkRequiredOrThrow;
}
private final org.immutables.generator.Templates.Invokable checkRequiredOrThrow = new FragmentDispatch(3, 20);
void _t20__checkRequiredOrThrow(org.immutables.generator.Templates.Invokation __) {
    __dl();
    final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    final org.immutables.value.processor.meta.LongBits.LongPositions positions = $cast(__.param(1));
    final java.lang.Boolean useSupplier = $if(__.param(2));
    __ln();
    __out("if (");
    { final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(positions.longs())) {
        __dl();
        __dl();
        if ($if($(not, _it1.first)) {
            __dl();
            __out(" || ");

        }
        __dl();
        $(__, disambiguateField, type, "initBits");
        $(__, emptyIfZero, l.index);
        __out(" != 0");
        __dl();
        _it1.index++;
        _it1.first = false;
    }
    __dl();
    __out("}.
    __out(" ");
    __dl();
    if ($if(useSupplier)) {
        __dl();
        __ln();
        __out(" throw exceptionSupplier.apply(formatRequiredAttributesMessage());").
        __out(" ");
    } else if ($if(type.getThrowForInvalidImmutableState().hasAttributeNamesConstructor)) {
        __dl();
        __ln();
        __out(" throw new ");
        $(__, type.getThrowForInvalidImmutableState());
        __out("(missingRequiredAttributesNames());".
        __out(" ");
    } else {
        __dl();
        __ln();
        __out(" throw new ");
        $(__, type.getThrowForInvalidImmutableState());
        __out("(formatRequiredAttributesMessage());").
        __out(" ");
    }
    __dl();
    __ln();
    __out("");ln();
    __dl();
}

org.immutables.generator.Templates.Invokable buildFromAttributeNullableSupertype() {
    return buildFromAttributeNullableSupertype; }
private final org.immutables.generator.Templates.Invokable buildFromAttributeNullableSupertype = new FragmentDispatch(1, 21);
void _t21__buildFromAttributeNullableSupertype(org.immutables.generator.Templates.Invokation __) {
    __.dl(); final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
    __.ln();
    __.dl();
    if ($if(v.isEncoding())) {
        __.dl(); __.ln();
        $(__, v.atNullableInSupertypeLocal());
        $(__, v.getType());
        __.out(" ");
        $(__, v.name());
        __.out("Value = instance.");
        $(__, v.names.get);
        __.out(";"); __.ln();
        __.out("if ( ");
        $(__, v.name());
        __.out("Value != null) { "); __.ln();
        __.out(" ");
        $(__, rr.builderCopyFrom(), v);
        __.out("(); "); __.ln();
        __.out("} "); __.ln();
    } else if ($if(v.isCollectionType())) {
        __.dl(); __.ln();
        $(__, v.atNullableInSupertypeLocal());
        $(__, v.getType());
        __.out(" ");
        $(__, v.name());
        __.out("Value = instance.");
        $(__, v.names.get);
        __.out(";"); __.ln();
        __.out("if ( ");
        $(__, v.name());
        __.out("Value != null) { "); __.ln();
        __.out(" ");
        $(__, v.names.addAll());
        __.out("(); "); __.ln();
        __.out("} "); __.ln();
    } else if ($if(v.isMapType())) {
        __.dl(); __.ln();
        $(__, v.atNullableInSupertypeLocal());
        $(__, v.getType());
        __.out(" ");
        $(__, v.name());
        __.out("Value = instance.");
        $(__, v.names.get);
        __.out(";"); __.ln();
        __.out("if ( ");
        $(__, v.name());
        __.out("Value != null) { "); __.ln();
        __.out(" ");
        $(__, v.names.addAll());
        __.out("(); "); __.ln();
        __.out("} "); __.ln();
    } else if ($if(v.isMapType())) {
        __.dl(); __.ln();
        $(__, v.atNullableInSupertypeLocal());
        $(__, v.getType());
        __.out(" ");
        $(__, v.name());
        __.out(" ");
        $(__, v.name());
        __.out(" ");
        $(__, v.name());
        __.out(" ");
    }
    __.ln();
}
__out("Value = instance.");
$___.out("();").ln();
$___.out("if ( ");
$___.name();
__out("Value != null) { ").ln();
__out(" ");
$___.name();
__putAll();
__out("(");
$___.name();
__out("Value;").ln();
__out("] ").ln();
} else if (Sif(v.isOptionalType())) {
__dl();__ln();
$___.atNullableInSupertypeLocal();
$___.getType();
__out(" ");
$___.name();
__out("Value = instance.");
$___.names.get();
__out("();").ln();
$___.name();
__out("if ( ");
$___.name();
__out("Value != null && ");
$___.name();
__out("Value.");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
__dl();
if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
a_optionalPresent_767352996.isJavaslangOptional()))) {
__dl();__out("isDefined");
} else {
__dl();__out("isPresent");
}
__dl();__out("()");
}
__out(" ").ln();
__out(" ");
$___.names.init;
__out("(");
$___.name();
__out("Value);".ln();
__out("] ").ln();
} else {
}
else {
  __.dl();__.ln();
  __.out("\n");
}

} else if ($if(v.isOptionalType())) {
  __.dl();__.ln();
  $(___.v.getName());
  __.out("\n");
  __.out("Optional = instance.\n");
  $(___.v.getName());
  __.out("\n");
  __.out("if \n");
  $(___.v.getName());
  __.out("\n");
  __.out("Optional.\n");
  {final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
   __.dl();
   if ($if($a_optionalPresent_767352996.isFugueOptional(), or,
         $a_optionalPresent_767352996.isJavaslangOptional()) {___.dl();___.out("isDefined"):
   } else {
     ___.dl();___.out("isPresent"):
   }
  }
}

} else if ($if(v.isNullable())) {
  __.dl();__.ln();
  $(___.v.getDefaultValue());
  __.out("\n");
  $(___.v.getName());
  __.out("\n");
  __.out("Optional.\n");
  $\{
      if ($if($a_optionalPresent_767352996.isFugueOptional(), or,
            $a_optionalPresent_767352996.isJavaslangOptional()) {___.dl();___.out("isDefined"):
      } else {
        ___.dl();___.out("isPresent"):
      }
  }
  ___.dl();___.out("\n");
  $(___.v.getDefaultValue());
  __.out("\n");
  $(___.v.getName());
  __.out("\n");
  __.out("Optional.\n");
  $\{
      if ($if($a_optionalPresent_767352996.isFugueOptional(), or,
            $a_optionalPresent_767352996.isJavaslangOptional()) {___.dl();___.out("isDefined"):
      } else {
        ___.dl();___.out("isPresent"):
      }
  }
  }


$(__, v.name());
__out("Value = instance.");
$__out("()");ln();
$__out("if ")
$__out("Value != null").ln();
$__out(" ");
$__out("()");
$__out("(");
$__out("Value.");ln();
$__out(" ");

} else {
__dl();__ln();
$__out("instance.");
$__out("()");ln();
$__out(" ");

}
__dl();__ln();
__dl();
};

org.immutables.generator.Templates.Invokable returnFactoryBuild() { return returnFactoryBuild; }
private final org.immutables.generator.Templates.Invokable returnFactoryBuild = new FragmentDispatch(1, 23);
void _t23__returnFactoryBuild(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
__ln();
__out("return ");
$__out("()");
$__out("(");
$__out("(");
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$__out("(()");
$__out("(()");
$_d1();$(__, valueFromBuilder, v, "");
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@Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = this;
    $(__, expression);
    __.dl();
} __.dl();
if ($if(n_valueToBuilder_1442539515.isCopyMethodOnValueInstance())) {
    __.dl();$__n_valueToBuilder_1442539515.isCopyMethodOnValueInstance();
    expression_valueToBuilder_1442539515;
    __.out(".");
    expression_valueToBuilder_1442539515;
    __.out("()");

} else {
    __.dl();$(__, n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
    __.out("()");
} __.dl();
}

} __.dl();
}

}
__.dl();__._t26__valueToBuilder(valueToBuilder_1442539515);
__.dl();final org.immutables.value.processor.meta.AttributeBuilderDescriptor n = $cast(__.param(0));
final java.lang.String expression = __.param(1).toString();
__._t26__valueToBuilder(valueToBuilder_1442539515);
__._t26__valueToBuilder(valueToBuilder_1442539515);
__._t26__valueToBuilder(valueToBuilder_1442539515);
org.immutables.generator.Templates.Invokable valueFrom() { return valueFrom; }

private final org.immutables.generator.Templates.Invokable valueFrom = new FragmentDispatch(4, 27);

void _t27__valueFrom(org.immutables.generator.Templates.Invokation __) {
  __.dl();
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(1));
  final java.lang.String expression = __.param(2).toString();
  final java.lang.Boolean withoutOptional = $if(__.param(3));
  $(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();
      __.ln();
      if ($if(withoutOptional)) {
        __.dl();
        __.ln();
        $(__, valueFromValueNoOptional, type, v, expression);
        __.ln();
        __.out(" ");
      } else {
        __.dl();
        __.ln();
        __.out(" ");
        $(__, valueFromValue, v, expression);
        __.ln();
        __.out(" ");
      }
      __.dl();
      __.ln();
      __.dl();
    }});
  __.dl();
}

org.immutables.generator.Templates.Invokable valueFromValue() { return valueFromValue; }

private final org.immutables.generator.Templates.Invokable valueFromValue = new FragmentDispatch(2, 28);

void _t28__valueFromValue(org.immutables.generator.Templates.Invokation __) {
  __.dl();
  final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
  final java.lang.String expression = __.param(1).toString();
  $(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();
      __.ln();
      if ($if(v.isEncoding())) {
        __.dl();
        __.ln();
        __.out(" ");
        $(__, rr.from(), v, expression);
      }
      __.dl();
      __.ln();
      __.dl();
    }});
  __.dl();
}


else if ($if(v.isJdkOptional())) {
 __.dl();__.ln();
 __.out(" ");
 __.dl();
  if ($if(v.isJdkSpecializedOptional())) {
    __.dl();$__().expression();
    __.out(".isPresent() ? ");
    $__().expression();
    __.out(" .getAs");
    $__().toUpper().getValue().getUnwrappedElementType().orElse(null);
  } else {
    __.dl();$__().maybeCopyOf().new org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();$__().expression();
        __.out(" .orElse(null)");
        __.dl();
      }
    });
  }
  __.dl();__.ln();
} else if ($if(v.isOptionalType())) {
  __.dl();__.ln();
  __.out(" ");
  __.dl();
  if ($if(v.getConsumedElementType().ne(v.getWrappedElementType()))) {
    __.dl();__.out("(");
    __().expression();
    __.ln();
  }
  __.dl();$__().maybeCopyOf().new org.immutables generator.Templates.Fragment(0) {
    @Override public void run(org.immutables generator.Templates.Invokation __) {
      __.dl();$__().expression();
      __.out(" .orElse(null)");
      __.dl();
    }
  });
  __.dl();__.ln();
} else if ($if(v.isArrayType())) {
  __.dl();___.ln();
  __.out(" ");
  __.dl();
  if ($if(v.isNullable())) {
    __.dl();$__().expression();
  } else {
    __.dl();$__().expression();
    __.out(" .clone()");
  }
  __.dl();__.ln();
} else if ($if(v.isArrayType())) {
  __.dl();___.ln();
  __.out(" ");
  __.dl();
  if ($if(v.isNullable())) {
    __.dl();$__().expression();
  } else {
    __.dl();$__().expression();
    __.out(" .clone()");
  }
  __.dl();__.ln();
}
org.immutables.generator.Templates.Invokable valueFromValueNoOptional() { return valueFromValueNoOptional; }

private final org.immutables.generator.Templates.Invokable valueFromValueNoOptional = new FragmentDispatch(3, 29);
void t29__valueFromValueNoOptional(org.immutables.generator.Templates.Invokation __) {
  $.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(1));
  final java.lang.String expression = __.param(2).toString();
  $.(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      $.dl();$.dl();
      if (v.isEncoding()) {
        $.dl();$.ln();
        $.dl();
        if (v.isJdkOptional() && v.isJdkSpecializedOptional() || v.isOptionalAcceptNullable()) {
          $.dl();$.ln();
          $.dl();$.ln();
          $.out("  ");
          $.dl();$.ln();
          $.dl();$.ln();
          $.dl();$.ln();
        } else if (v.isJdkOptional()) {
          $.dl();$.ln();
          $.dl();$.ln();
          $.dl();$.ln();
          $.dl();$.ln();
        } else if (v.isOptionalType()) {
          $.dl();$.ln();
          $.dl();$.ln();
          $.dl();$.ln();
          $.dl();$.ln();
        } else {
          $.dl();$.ln();
          $.dl();$.ln();
          $.dl();$.ln();
          $.dl();$.ln();
        }
      } else if (v.isJdkOptional()) {
        $.dl();$.ln();
        $.dl();$.ln();
        $.dl();$.ln();
        $.dl();$.ln();
      } else if (v.isOptionalType()) {
        $.dl();$.ln();
        $.dl();$.ln();
        $.dl();$.ln();
        $.dl();$.ln();
      } else {
        $.dl();$.ln();
        $.dl();$.ln();
        $.dl();$.ln();
        $.dl();$.ln();
      }
    }
  });
}

@Override public void run(org.immutables.generator.Templates.Invokation __) {
  $.dl();$.ln();
  if (v.isEncoding()) {
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
  } else if (v.isJdkOptional() && v.isJdkSpecializedOptional() || v.isOptionalAcceptNullable()) {
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
  } else if (v.isJdkOptional()) {
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
  } else if (v.isOptionalType()) {
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
  } else {
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
  }
}

@Override public void run(org.immutables.generator.Templates.Invokation __) {
  $.dl();$.ln();
  if (v.isEncoding()) {
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
  } else if (v.isJdkOptional() && v.isJdkSpecializedOptional() || v.isOptionalAcceptNullable()) {
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
  } else if (v.isJdkOptional()) {
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
  } else if (v.isOptionalType()) {
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
  } else {
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
    $.dl();$.ln();
  }
}
} else {
  __dl();__ln();
  __out(" ");
  $(__, valueFromValue, v, expression);
  __ln();
}

__dl();__ln();
__dl();
}
__dl();

org.immutables.generator.Templates.Invokable deepCopyOf() { return deepCopyOf; }
private final org.immutables.generator.Templates.Invokable deepCopyOf = new FragmentDispatch(2, 30);
void _t30__deepCopyOf(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
  final java.lang.String expression = __.param(1).toString();
  __dl();
  if ($if(v.isAttributeBuilder())) {
    __dl();final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_convertToValueType_1028768993 = $cast(v.getAttributeBuilderDescriptor());
    __out("convertToValueType");
    $(__, n_convertToValueType_1028768993.getQualifiedValueTypeNameWithUnderscores());
  }
  __out("(");
  $(__, expression);
  __out(")");
}

org.immutables.generator.Templates.Invokable valueFromBuilder() { return valueFromBuilder; }
private final org.immutables.generator.Templates.Invokable valueFromBuilder = new FragmentDispatch(2, 31);
void _t31__valueFromBuilder(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
  final java.lang.String expressionPrefix = __.param(1).toString();
  $((__, valueFromBuilderAlt, v, $$true, expressionPrefix);
  __dl();
}

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org.immutables.generator.Templates.Invokable valueFromBuilderAlt() { return valueFromBuilderAlt; }
private final org.immutables.generator.Templates.Invokable valueFromBuilderAlt = new FragmentDispatch(3, 32);
void _t32__valueFromBuilderAlt(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueAttribute v = __cast(__.param(0));
final java.lang.Boolean mayBeNull = __if(__.param(1));
final java.lang.String expressionPrefix = __.param(2).toString();
$___.output.trim, new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();__ln();
  }
}
if ($if(v.isEncoding())) {
  __dl();__ln();
  __out(" ");
$___.expressionPrefix;
$_go, rr.fromBuild(), v);
  __.ln();
} else if ($if(v.isAttributeValueKindCopy())) {
  __dl();__ln();
  __out(" ");
  __dl();
}
if ($if(v.isNonNull())) {
  __dl();$___.expressionPrefix;
$_go, v.name());
  __.ln();
}
$___.deepCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();$___.expressionPrefix;
$_go, v.name());
  __.ln();
}});
___.ln();
} else if ($if(v.isCollectionType(), or, v.isMapType())) {
  __dl();__ln();
  __out(" ");
  __dl();
}
if ($if(v.isNullable())) {
  __dl();__ln();
  __out(" ");
$___.expressionPrefix;
$_go, v.name());
  __.ln();
}
else if ($if($v.isNullableCollect(), and, mayBeNull))) {
  __dl();__ln();
  __out(" ");
$___.nullableCollectionBuild, v, $(expressionPrefix, v.name()));
  __.ln();
  __out(" ");
} else if ($if($v.isNullCollect(), and, mayBeNull))) {
  __dl();__ln();
  __out(" ");
$___.nullCollectBuild, v, $(expressionPrefix, v.name()));
  __.ln();
  __out(" ");
} else if ($if($v.isMapCollect(), and, mayBeNull))) {
  __dl();__ln();
  __out(" ");
$___.mapCollectBuild, v, $(expressionPrefix, v.name()));
  __.ln();
  __out(" ");
} else if ($if($v.isListCollect(), and, mayBeNull))) {
  __dl();__ln();
  __out(" ");
$___.listCollectBuild, v, $(expressionPrefix, v.name()));
  __.ln();
  __out(" ");
} else if ($if($v.isSetCollect(), and, mayBeNull))) {
  __dl();__ln();
  __out(" ");
$___.setCollectBuild, v, $(expressionPrefix, v.name()));
  __.ln();
  __out(" ");
} else if ($if($v.isStreamCollect(), and, mayBeNull))) {
  __dl();__ln();
  __out(" ");
$_go, v.name());
  __.ln();
  __out(" ");
} else if ($if($v.isStringCollect(), and, mayBeNull))) {
  __dl();__ln();
  __out(" ");
$_go, v.name());
  __.ln();
  __out(" ");
} else if ($if($v.isNullableStringCollect(), and, mayBeNull))) {
  __dl();__ln();
  __out(" ");
$_go, v.name());
  __.ln();
  __out(" ");
} else if ($if($v.isLocalCollector(), and, mayBeNull))) {
  __dl();__ln();
  __out(" ");
$_go, v.name());
  __.ln();
  __out(" ");
} else if ($if($v.isRemoteCollector(), and, mayBeNull))) {
  __dl();__ln();
  __out(" ");
$_go, v.name());
  __.ln();
  __out(" ");
} else if ($if($v.isMapRemoteCollector(), and, mayBeNull))) {
  __dl();__ln();
  __out(" ");
$_go, v.name());
  __.ln();
  __out(" ");
} else if ($if($v.isListRemoteCollector(), and, mayBeNull))) {
org.immutables.generator.Templates.Invokable emptyImmutableInstance() { return emptyImmutableInstance; }
private final org.immutables.generator.Templates.Invokable emptyImmutableInstance = new FragmentDispatch(2, 33);
void _t33_emptyImmutableInstance(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
final java.lang.String genericArgsOrEmpty = ___.param(1).toString();
S(____, output.trim, new org.immutables.generator.Templates.Fragment(0) {  
@Override public void run(org.immutables.generator.Templates.Invokation ___) {
    ___dl();___ln();
    ___dl();
    if ($if(v.isEncoding())) {
        ___dl();___ln();
        ___out(" ");
        S(____, rr.defaultValue(), v);
        ___ln();
    } else if ($if($if(v.isOptionalJdkOnly(), or, v.isNullable())) {
        ___dl();___ln();
        ___out(" null").ln();
    } else if ($if(v.isOptionalType())) {
        ___dl();___ln();
        ___out(" ");
        S(____, optionalEmpty, v);
        ___ln();
    } else if ($if(v.isMapType())) {
        ___dl();___ln();
        ___out(" ");
        ___dl();
        if ($if(v.isGenerateJdkOnly())) {
            ___dl();___ln();
            ___out(" ");
            ___dl();
            if ($if(v.typeKind().isSortedMap())) {
                ___dl();___ln();
                ___out(" ");
                ___dl();
                S(____, immutableCollectionCopyOfSafe, v, $false, new org.immutables.generator.Templates.Fragment(0) {  
@Override public void run(org.immutables.generator.Templates.Invokation ___) {
    ___dl();___out("java.util.Collections.");
    S(____, v.getGenericArgs());
    ___out("emptyMap()");
    ___dl();
})});
    } else {
        ___dl();___ln();
        ___out(" java.util.Collections.");
        S(____, genericArgsOrEmpty);
        ___out("emptyMap()").ln();
        ___out(" ");
    }
    ___dl();___ln();
});
null

@Override public void run(org.immutables.generator.Templates.Invokation __) {
	__dl();__ln();
	__out("Could not generate constructor for ");
	$___.v.containingType.typeInmutable().relativeRaw();
	__out(".");
	$___.v.name();
	__out(" does not have default value");__ln();
	__out(" ");
	__dl();
}};
__ln();

}__dl();__ln();
```java
org.immutables.generator.Templates.Invokable generateConstructorNoAttributes() { return generateConstructorNoAttributes; }
private final org.immutables.generator.Templates.Invokable generateConstructorNoAttributes = new FragmentDispatch(2, 34);
void _t34__generateConstructorNoAttributes(org.immutables.generator.Templates.Invocation __) {
  __.dl();
  final org.immutables.value.processor.meta.ValueType type = __cast(__.param(0));
  final java.lang.Iterable<org.immutables.value.processor.meta.ValueAttribute> attributes = __cast(__.param(1));
  __.ln();
  for (final org.immutables.value.processor.meta.ValueAttribute v : __in(attributes)) {
    final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : __in(attributes)) {
      __.dl();
      __.ln();
      __.dl();
      if (__if(v.isEncoding())) {
        __.dl();
        __.ln();
       __$(_. rr.unitializedFieldValue(), v);
        __.ln();
      } else if (__if(v.isPrimitive())) {
        __.dl();
        __.ln();
        __.out("  ");
        __.dl();
        if (__if(v.isBoolean())) {
          __.dl();
          __.ln();
          __.out("this.");
          __.out(" = false;").ln();
          __.out("  ");
        } else {
          __.dl();
          __.ln();
          __.out("this.");
          __.out(" = 0;").ln();
          __.out("  ");
        }
      } else {
        __.dl();
        __.ln();
        __.out("this.");
        __.out(" = null; ").ln();
      }
    }
    __.dl();
    __.ln();
  }
}
```
org.immutables.generator.Templates.Invokable generateConstructorDefaultAttributes() { return
  generateConstructorDefaultAttributes;
}
private final org.immutables.generator.Templates.Invokable generateConstructorDefaultAttributes = new
  FragmentDispatch(2, 35);
void _t35__generateConstructorDefaultAttributes(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.Iterable<org.immutables.value.processor.meta.ValueAttribute> attributes = $cast(__.param(1));
  final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute v : $in(attributes)) {
    if ($if($(not, $(v.isGenerateDefault, or, v.isGenerateDerived)))) {
      final java.lang.String n = $cast(v.name());
      if ($if(v.hasVirtualImpl())) {
        $(__, rr.virtualImpl(), v);
      } else {
        __.out("this.");
        $(___ n);
      }
    } else {
      __.out(""");
      $(___ emptyImmutableInstance, v, ";");
      __.out("\n");
      __.out("\n");___.it1.index++;
      _it1.first = false;
    }
  }
}
}
$___.out(" = DEFAULT_VALUE_");
$___.toConstant(n);
$___.out(";").ln();
} else if ($if(!type.isGenerateSafeDerived())) {
  ___.dl();___.ln();
  ___.out("this.");
  $___.n;
  ___.out(" = ");
  $___.valueFromValue(v, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();___.ln();
      ___.out(".");
      $(___.invokeSuper, v);
      ___.out(");
      $___.v.names.get;
      ___.dl();
    }
  });
  ___.out(";").ln();
}
___.dl();___.ln();
___.dl();_it1.index++;
_it1.first = false;
}}
___.dl();___.ln();
___.dl();

org.immutables.generator.Templates.Invokable generateImmutableMembers() { return generateImmutableMembers;
}
private final org.immutables.generator.Templates.Invokable generateImmutableMembers = new
  FragmentDispatch(1, 36);
void _t36__generateImmutableMembers(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __.ln();
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    final java.util.List<org.immutables.value.processor.meta.ValueAttribute> setters =
    $cast(type.getSettableAttributes());
    final java.util.List<org.immutables.value.processor.meta.ValueAttribute> getters =
    $cast(type.getImplementedAttributes());
    __.dl();___.ln();
    {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
      for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {
        __.dl();___.ln();
        ___.out(" ");
        __.dl();
        if ($if(v.isEncoding())) {
          __.dl();___.ln();
        }
      }
      ___.dl();___.ln();
    }
  }
}
__out(" ");
$___.rr.declareFields(v);
$___.ln();
$___.out(" ");
}
else {
  __dl();__ln();
  __out(" ");
{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
for (final java.lang.String anj : $in(v.fieldInjectedAnnotations())) {
  __dl();__ln();
  __out(" ");
$___.out(anj);
  __ln();
  __out(" ");
  __dl();_it3.index++;
  _it3.first = false;
}
  __dl();__ln();
  __out(" ");
}{final org.immutables.value.processor.meta.ValueType type_jsonIgnore_782971179 = $cast(type);
  __dl();
  if ($if(type_jsonIgnore_782971179.isGenerateJacksonIngoreFields())) {
    __dl();__out("@com.fasterxml.jackson.annotation.JsonIgnore");
  }
  __dl();
  __ln();
  __out(" private ");
  __dl();
  if ($if(v.isGenerateTransientDerived())) {
    __dl();__out("transient ");
  }
  __dl();__out("final ");
$___.v.atNullability();
$___.immutableImplementationType(v);
__out(" ");
$___.v.name();
__out("; ").ln();
__out(" ");
}
__dl();__ln();
__dl();_it2.index++;
_it2.first = false;
}
if ($if(type.isCacheHash())) {
	__.dl();__.ln();
	__.out(" ");
	{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
	for (final java.lang.String anj : $in(type.syntheticFieldsInjectedAnnotations())) {
		__.dl();__.ln();
		$.ln();
		__.out(" ");
		__.dl();_it2.index++;
		_it2.first = false;
	}
	__.dl();__.ln();
	__.out(" ");
	}
}

{final org.immutables.value.processor.meta.ValueType type_jsonIgnore_782971179 = $cast(type);
	__.dl();
	if ($if(type_jsonIgnore_782971179.isGenerateJacksonIgnoreFields())) {
		__.dl();__.out("@com.fasterxml.jackson.annotation.JsonIgnore");
		}
	__.ln();
	__.dl();
	if ($if(type.isUseLazyhash())) {
		__.dl();{final org.immutables.value.processor.meta.ValueType type_hiddenMutableState_1091893888 = $cast(type);
		__.dl();
		if ($if($(type_hiddenMutableState_1091893888, allowsClasspathAnnotation,
	"com.google.errorprone.annotations.Immutable"))) {
			__.dl();__.out("@SuppressWarnings(\"Immutable\")");
		}
		__.dl();
		}
	}
	__.dl();__.ln();
	__.out(" private");
	__.dl();
	if ($if($not, type.serial.isSimple())) {
		__.dl();__.out(" transient");
	}
	}
```java
if ($if(type.isUsePrehashed())) {
    __.dl(); __.out(" final");
}
___.dl(); __.out(" int hashCode;");
___.dl();
if ($if(type.isUseLazyhash())) {
    ___.dl(); __.out(" // hashCode lazily computed");
}
___.dl(); ___.ln();
}
___.dl(); ___.ln();
___.dl();
if ($if(type.isGenerateOrdinalValue())) {
    ___.dl(); ___.ln();
    ___.out(" ");
    {final org.immutables.value.processor.meta.ValueType type_jsonIgnore_782971179 = $cast(type);
        ___.dl();
        if ($if(type_jsonIgnore_782971179.isGenerateJacksonIngoreFields())) {
            ___.dl(); __.out("@com.fasterxml.jackson.annotation.JsonIgnore");
        }
        ___.ln();
        __.out("  ");
        {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
            for (final java.lang.String anj : $in(type.syntheticFieldsInjectedAnnotations())) {
                ___.dl(); ___.ln();
                ___.out(" ");
                ${(__, anj)};
                ___.ln();
                ___.out(" ");
                ___.dl(); _it2.index++;
                _it2.first = false;
            }
        }
        ___.dl(); ___.ln();
        __.out("  private final int ordinal;");.ln();
        __.out(" ");
    }
    ___.dl(); ___.ln();
    __.out(" ");
    {final org.immutables.value.processor.meta.ValueType type_jsonIgnore_782971179 = $cast(type);
        ___.dl();
        if ($if(type_jsonIgnore_782971179.isGenerateJacksonIngoreFields())) {
            ___.dl(); __.out("@com.fasterxml.jackson.annotation.JsonIgnore");
        }
    }
```
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```java
  private final Domain domain;
}

if ($if(type.isUseSingleton())) {
  private $(__, type.typeImmutable().simple()) {
    $(__, generateConstructorDefaultAttributes, type, type.getImplementedAttributes());
    $(__, generateDerivedConstruction, type, noAttributes);
    $(__, generateAfterConstruction, type, $$false);
  }
}

else if ($if(type.isGeneratePrivateNoargConstructor())) {
  private $(__, type.typeImmutable().simple()) {
    $(__, private final Domain domain;).ln();
  }
}
```
$(__, output.collapsible, new org.immutables.generator.Templates.Fragment(0) {  
@Override public void run(org.immutables.generator.Templates.Invokation __) {  
  __.dl();__.ln();  
__out(" ");  
$(__, generateConstructorNoAttributes, type, type.getImplementedAttributes());  
__ln();  
__out(" ");  
$(__, generateAfterConstruction, type, $$false);  
__ln();  
__out(" ");  
__dl();  
}  
}).ln();  
}.dl();__.ln();  
}.dl();  
if ($if($(type.isUseConstructor(), andnot, type.isGenerateConstructorUseCopyConstructor()))) {  
  __.dl();__.ln();  
  __.ln();  
$___.generateConstructor, type, $$_false, constructorAcceptType);  
  __.ln();  
  __.dl();__.ln();  
  __dl();  
if ($if(type.isUseOptionalAcceptNullableConstructor())) {  
    __.dl();__.ln();  
    __.ln();  
$___.generateConstructor, type, $$_true, constructorAcceptTypeNoOptional);  
    __.ln();  
  }  
  __.dl();__.ln();

}  
}.dl();__.ln();  
}.dl();  
if ($if(type.isGenerateBuilderConstructor())) {  
  __.dl();__.ln();  
  __.ln();  
$___.type.typeImmutable().simple());  
  __.ln();  
$___.type.typeBuilderImpl().relative());  
  __.out(" builder ");  
  __.ln();  
  __.ln();  
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();  
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {  
if ($if($not, v.isGenerateDerived, or, v.isGenerateDefault)) {
final java.lang.String n = $cast(v.name());

__dl():__ln();
__out("  ");
__dl();
if ($if(v.hasVirtualImpl()) {
__dl():__ln();
__out("  ");
$___.rr.virtualImpl(), v);
__out(" = ");
{final org.immutables.value.processor.meta.ValueAttribute v_valueFromBuilder_507842697 = $cast(v);
final org.immutables.generator.Templates.Invokable expressionPrefix_valueFromBuilder_507842697 = new
org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.generator.Templates.Invokable
expressionPrefix_valueFromBuilder_507842697 = this;
__dl();
})::__dl():$___.valueFromBuilderAlt, v_valueFromBuilder_507842697, $$true,
expressionPrefix_valueFromBuilder_507842697);

}
__out("; ").ln();
__out(" ");
} else {
__dl():__ln();
__out(" this.");
$___.n);
__out(" = ");
{final org.immutables.value.processor.meta.ValueAttribute v_valueFromBuilder_507842697 = $cast(v);
final org.immutables.generator.Templates.Invokable expressionPrefix_valueFromBuilder_507842697 = new
org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.generator.Templates.Invokable
expressionPrefix_valueFromBuilder_507842697 = this;
__dl();
})::__dl():$___.valueFromBuilderAlt, v_valueFromBuilder_507842697, $$true,
expressionPrefix_valueFromBuilder_507842697);

}
__out("; ").ln();
__out(" ");
}
__dl():__ln();
__out(" ");
__dl();_it2.index++;
if ($if(type.isGenerateSafeDerived())) {
    __.dl();___.ln();
    __.out("  ");
    {final org.immutables.guava.Templates.Iteration _it2 = new org.immutables.guava.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {
        if ($if(v.isGenerateDefault)) {
            final java.lang.String n = $cast(v.name());
            __.dl();___.ln();
            __.out("  ");
            __.dl();
            if ($if(v.isEncoding())) {
                __.out("builder.");
                $(__, rr.wasInit(), v);
            } else if ($if(v.requiresTrackIsSet())) {
                __.out("builder.");
                $(__, v.names.isSet());
                __.out("()");
            } else {
                __.out("builder.");
                $(__, n);
                __.out(" != null");
            }
        }
        __.dl();___.out(""");
        __.out(" ");
        $(__, disambiguateField, type, "initShim");
        __.out(".");
        $(__, v.names.init);
        __.out("(");
        $(__, valueFromBuilderAlt, v, v.requiresTrackIsSet(), new org.immutables.guava.Templates.Fragment(0) { @Override public void run(org.immutables.guava.Templates.Invokation __) {
            __.dl();___.out("builder.");
            __.dl();
        } });
        __.out(";");___.ln();
        __.out(" ");___.ln();
        __.dl();___.ln();
        __.dl();___.ln();
    }
}
\_
\_
dl();\ln();
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {
if ($if(v.isGenerateDefault)) {
final java.lang.String n = $cast(v.name());
__dl();__ln();
__out("\n");
__dl();
if ($if($type.isAnnotationType(), ornot, type.isGenerateSafeDerived())) {
__dl();__ln();
__out(" this.");
$_, n);
__out(" = ");
__dl();
if ($if(v.requiresTrackIsSet())) {
__dl();__out("builder.");
$_, v.names.isSet());
__out("()");
} else {
__dl();__out("builder.");
$_, n);
__out(" != null");
}
__dl();__ln();
__out("\n");
$_.valueFromBuilderAlt, v, v.requiresTrackIsSet(), new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();__out("builder.");
__dl();
});
__ln();
__out("\n");
__dl();
if ($if($type.isAnnotationType())) {
__dl();__out("DEFAULT_VALUE_");
$_.toConstant, v.name());
} else {
__dl();{final org.immutables.value.processor.meta.ValueAttribute v_valueFromSuper_1184295742 = $cast(v);
final org.immutables.generator.Templates.Invokable expression_valueFromSuper_1184295742 = new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.generator.Templates.Invokable expression_valueFromSuper_1184295742 =
}
this;
    $(__, invokeSuper, v);
    __out(".");
    $(__, v.names.get);
    __out("()")
    __dl();
});__dl();__dl();
if ($if(v_valueFromSuper_1184295742.isGuavaImmutableDeclared()) {
    __dl();__dl();
    if ($if($(not, v_valueFromSuper_1184295742.isNullable())) {
        $(__, requireNonNull, v_valueFromSuper_1184295742.containingType);
        __out("(");
        $(__, expression_valueFromSuper_1184295742);
        __out("\")
        $(__, v_valueFromSuper_1184295742.name());
        __out("")
    } else {
        $(__, expression_valueFromSuper_1184295742);
    }
    __dl();
} else {
    $(__, valueFromValue, v_valueFromSuper_1184295742,
    expression_valueFromSuper_1184295742);
    __dl();
} else {
    __dl();$(__, expression_valueFromSuper_1184295742);
    __dl();
} else {
    __dl();$(__, valueFromValue, v_valueFromSuper_1184295742,
    expression_valueFromSuper_1184295742);
    __dl();
    __out(";").ln();
    __out(" ");
}
__dl();__ln();
__dl();_it2.index++;
_it2.first = false;
})
})
__dl();__ln();
__$__, generateDerivedConstruction, type, noAttributes);
__ln();
__out(" ");
$($__, generateAfterConstruction, type, $$true);
__ln();
__out(" ");
$
if ($if(type.isUseCopyMethods())) {
  .dl(); .ln();
  .ln();
  .out("  ");
  .dl();
  if ($if(type.factoryOf().isNew(), and, type.isGenerateConstructorUseCopyConstructor())) {
    .dl(); .ln();
    .out(" **"); .ln();
    .out(" * Construct a new immutable [@code ];
    $(__, type.name());
    .out(" ] instance.").ln();
    .out(" ");
    final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
      .dl(); .ln();
      .out(" * @param ");
      $(__, v.name());
      .out(" The value for the [@code ");
      $(__, v.name());
      .out(" ] attribute");
      .dl();
      if ($if(v.isNullable())) {
        .dl(); .out(" , can be [@code null]");
      }
    }
    .dl(); .ln();
    .out(" ");
    .dl(); _it2.index++;
    _it2.first = false;
  }
  .dl(); .ln();
  .ln();
  .out(" ");
  .ln();
  .out(" */"); .ln();
  .out(" ");
  $__ eachLine, type.getConstructorAnnotations();
  .ln();
  .out(" ");
  $__ eachLine, type.constructorInjectedAnnotations();
  .ln();
  .out(" public ");
  $__ type.typeImmutable().simple();
  .out("()");
  $__ output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      .dl(); .ln();
      .out(" ");}
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
    __.dl();___.dl();
    if ($if($not, _it2.first)) {
        __.dl();___.out(",").ln();
        __.out("    ");
    }
    __.dl();$_in(v.getConstructorParameterAnnotations());
    $(__, v.atNullability());
    $(__, immutableImplementationType, v);
    __.out(" ");
    $(__, v.name());
    __.dl();___.it2.index++; _it2.first = false;
} }
___.dl();___.dl();
}));
___.out("  ");_.ln();
___.out(" ");

} else {
    __.dl();___.ln();
    __.out("  ");
    __.dl();
    if ($if(type.isSynthCopyConstructor())) {
        __.dl();$_in(type.typeImmutable().relative());
        __.out(" ");
        $(__, disambiguateField, type, "original");
        __.out(" ");
        __.out(" ");
    }
    __.dl();{final org.immutables.generator.Templates.Iteration _it2 = new
    org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
        __.dl();___.dl();
        if ($if($not, _it2.first)) {
            __.dl();___.out(",").ln();
            __.out("    ");
        }
    }}}}
if ($(type.hasEncodingValueOrVirtualFields(), or, $(type.isGenerateSafeDerived(), and, type.hasDerivedAttributes()))) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.generator.Templates.Invokable shim = this;
    if ($(v.isGenerateDefault, and, type.isGenerateSafeDerived())) {
      __dl();
      __ln();
      __out(" ");
      __out(" ");
    } else if ($(v.hasVirtualImpl())) {
      __dl();
      __ln();
      __out(" ");
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      __out(" "));
    }
  }
}
}
```java
}.out(" = ");
$___.out(";").ln();
$___.out("  ");
}
} else {
  $.dl();$___.ln();
  $.out("    this.");
  $(_. n);
  $.out(" = ");
  $(_. n);
  $.out(";").ln();
  $.out("  ");
}
$.dl();$.ln();
$.out("   ");
$.dl();$.ln();
$.out("    ");
$.dl();$.ln();
$.out("    ");
$(_. generateDerivedConstruction, type, setters);
$.ln();
}
} else {
  $.dl();$.dl();$.ln();
  $.out("   ");
  {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
      final java.lang.String n = $cast(v.name());
      $.dl();$.ln();
      $.out("    this.");
      $(_. n);
      $.out(" = ");
      $(_. n);
      $.out(";").ln();
      $.out("    ");
      $.dl();$.ln();
      _it2.first = false;
   }
  }
  $.dl();$.ln();
  $.out("   ");
  $(_. generateDerivedConstruction, type, setters);
  $.ln();
}
} else {
  $.dl();$.dl();$.ln();
  $.out("   ");
  {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {
      if ($if(v.isGenerateDerived)) {
         final java.lang.String n = $cast(v.name());
         $.dl();$.ln();
      }
   }
  }
  $.dl();$.ln();
  $.out("   ");
  {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {
      if ($if(v.isGenerateDerived)) {
         final java.lang.String n = $cast(v.name());
         $.dl();$.ln();
      }
   }
  }
```
__out("    this.");
$_(n);
__out(" = ");
$_(valueFromValue, v, new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();$_(invokeSuper, v);
    __out(".");
    $_(v.names.get);
    __out("()");
    __dl();
  });
  __out(";").ln();
  __out(" ");
  __dl();_it2.index++;
  _it2.first = false;
})
__dl();__ln();

__dl();__ln();
__out(" ");
$_(generateAfterConstruction, type, $false);
__ln();
__out(" ");ln();

__dl();__ln();
__dl();
if ($if(type.isGenerateSafeDerived())) {
  __dl();__ln();
  __out(" ");
  $_(generateSafeDerivedShim, type);
  __ln();
}

__dl();__ln();
__out(" ");
$_(generateAccessorMethods, type);
__ln();
__out(" ");
$_(generateCopyMethods, type);
__ln();
__out(" ");
$_(generateObjectUtilityMethods, type);
__ln();
__out(" ");
$_(generateJacksonMapped, type);
__ln();
org.immutables.generator.Templates.Invokable generateConstructor() { return generateConstructor; }
private final org.immutables.generator.Templates.Invokable generateConstructor = new FragmentDispatch(3, 37);
void _t37__generateConstructor(org.immutables.generator.Templates.Invocation __) {
  __dl(); final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.Boolean withoutOptional = $if(__.param(1));
  final org.immutables.generator.Templates.Invokable constructorAcceptTypeInvokable = $cast(__.param(2));
  __ln();
  __out(" ");
  __dl();
  if ($if(type.factoryOf().isNew())) {
    __dl();__ln();
    __out(" /**").ln();
    __out(" * Construct a new immutable { @code ");
    $___. type.name());
    __out(" ] instance.").ln();
    __out(" ");
    {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
     for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
       __dl();__ln();
       __out(" * @param ");
       __(v.name());
       __out(" The value for the { @code ");
       __(v.name());
       __out(" } attribute");
       __dl();
       if ($if(v.isNull)) {
         __dl();__out(" can be { @code null }");
       }
      }
      __dl();__ln();
      __out(" ");
      __dl();_it1.index++;
      _it1.first = false;
    }
  }
  __dl();__ln();
  __out(" */").ln();
  __out(" ");
  __(eachLine, type.constructorAnnotations());
  __ln();
  __out(" ");
  __(eachLine, type.constructorInjectedAnnotations());
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```java
  __dl();__ln();
  __out("  ");
$(__, v.atNullability());
$(__, constructorAcceptTypeInvokable, v);
  __out("  ");
$(__, v.name());
  __dl();_it1.index++;
  _it1.first = false;
});
  __dl();__dl();
})
  __out("  ");
  __out("  ");

} __dl();__ln();
__dl();
if ($if($(type.getConstructorOmitted(), or, $type.hasEncodingValueOrVirtualFields(), or,
$type.isGenerateSafeDerived(), and, type.hasDerivedAttributes())))) {
  __dl();__ln();
  __out("  ");
  final org.immutables.generator.Templates.Invokable shim = new
org.immutables.generator.Templates.Invokable.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();final org.immutables.generator.Templates.Invokable shim = this;
      $(___.disambiguateField, type, "initShim");
      __dl();
    }};__dl();__ln();
    __out("  ");
    {{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
      final java.lang.String n = $cast(v.name());
      __dl();__ln();
      __dl();
      if ($if($v.isGenerateDefault, and, type.isGenerateSafeDerived())) {
        __dl();__ln();
        __out("  ");
        $(__, shim);
        __out(");
        $(__, v.names.init);
        __out("( ");
        $(__, valueFrom, type, v, n, withoutOptional);
        __out(";");__ln();
      } else if ($if(v.hasVirtualImpl())) {
        __dl();__ln();
        __out("  ");
```
```
$(__, rr.virtualImpl(), v);
  __.out(" = ");
$(__, valueFrom, type, v, n, withoutOptional);
  __.out(";").ln();
}

} else {
  __.dl();__.ln();
  __.out("    this.");
$(__, n);
  __.out(" = ");
$(__, valueFrom, type, v, n, withoutOptional);
  __.out(";").ln();
}

  __.dl();__.ln();
  __.out("    ");
  __.dl();_it1.index++;
  _it1.first = false;
}

  __.dl();__.ln();
  __.out("    ");
$(__, generateConstructorDefaultAttributes, type, type.getConstructorOmitted());
  __.ln();
  __.out("    ");
$(__, generateDerivedConstruction, type, type.getConstructorArguments());
  __.ln();
}

} else {
  __.dl();__.dl();__.ln();
  __.out("    ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
 for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
final java.lang.String n = $cast(v.name());
  __.dl();__.ln();
  __.out("        this.");
$(__, n);
  __.out(" = ");
$(__, valueFrom, type, v, n, withoutOptional);
  __.out(";").ln();
  __.out("    ");
  __.dl();_it1.index++;
  _it1.first = false;
}

  __.dl();__.ln();
  __.out("    ");

}
Open Source Used In kASA v1.5

```
$(__, generateAfterConstruction, type, $$false);
__ln();
__out("  }"),ln();
__dl();
}

public org.immutables.generator.Templates.Invokable buildFromMandatoryAttribute() { return buildFromMandatoryAttribute; }
private final org.immutables.generator.Templates.Invokable buildFromMandatoryAttribute = new FragmentDispatch(2, 38);
void _t38__buildFromMandatoryAttribute(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.generator.Templates.Invokable buildAttribute = $cast(__.param(0));
  final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(1));
  __ln();
  __dl();
  if ($if(v.isMandatory())) {
    __dl();__ln();
    __out("if (instance.");
    $(__ v.names.isSet());
    __out(") {"),ln();
    __out("  ");
    $(__ buildAttribute, v);
    __ln();
    __out(" ");,ln();
  } else {
    __dl();__ln();
    $(__ buildAttribute, v);
    __ln();
  }
}
__dl();__ln();
__dl();
}

org.immutables.generator.Templates.Invokable dynamicFromModifiableCheck() { return dynamicFromModifiableCheck; }
private final org.immutables.generator.Templates.Invokable dynamicFromModifiableCheck = new FragmentDispatch(3, 39);
void _t39__dynamicFromModifiableCheck(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.String varName = __.param(1).toString();
  final java.lang.String returnStatement = __.param(2).toString();
  __ln();
  __dl();
  if ($if(type.kind().isModifiable())) {
    __dl();__ln();
    __out("if (");
    
```

```
$(___. varName);
___.out(" instanceof ");
$(___. type.typeModifiable().relativeRaw());
$(___. type.generics().unknown);
___.out(" ");_.ln();
___.out(" ");_.dl();
if ($if(returnStatement)) {
___.dl();___.ln();
___.out(" ");
$(___. type.names().from);
___.out(" ");
$(___. type.typeModifiable());
___.out(" ");
$(___. varName);
___.out(" ");_.ln();
___.out(" ");
$(___. returnStatement);
___.ln();
___.out(" ");
}
else {
___.dl();___.ln();
___.out(" return ");
$(___. type.names().from);
___.out(" ");
$(___. type.typeModifiable());
___.out(" ");
$(___. varName);
___.out(" ");_.ln();
___.out(" ");
___.dl();___.ln();
___.out(" ").ln();
}
___.dl();___.ln();
___.dl();
};

org.immutables.generator.Templates.Invokable generateSafeDerivedShim() { return generateSafeDerivedShim; }
private final org.immutables.generator.Templates.Invokable generateSafeDerivedShim = new FragmentDispatch(1,
40);
void _t40__generateSafeDerivedShim(org.immutables.generator.Templates.Invokation __) {
___.dl();final org.immutables.value.processor.meta.ValueType type = $cast(___.param(0));
___.ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
java.util.Collection<org.immutables.value.processor.meta.ValueAttribute> deriveds = org.immutables.generator.Intrinsics.$collect();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getImplementedAttributes())) {
  if ($if($(v.isGenerateDefault, or, v.isGenerateDerived))) {
    deriveds.add(v);
  }
}

out("private static final byte STAGE_INITIALIZING = -1;").ln();
out("private static final byte STAGE_UNINITIALIZED = 0;").ln();
out("private static final byte STAGE_INITIALIZED = 1;").ln();
{final org.immutables.value.processor.meta.ValueType type_hiddenMutableState_1091893888 = $cast(type);

if ($if($(type_hiddenMutableState_1091893888, allowsClasspathAnnotation, "com.google.errorprone.annotations.Immutable"))) {
  __.dl();___.out("@SuppressWarnings("Immutable")");
}

out("private transient volatile InitShim ");
$___.disambiguateField, type, "initShim";
out(" = new InitShim();").ln();
__.ln();
$___.atGenerated, type);
___.ln();
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute f : $in(deriveds)) {
  if ($if(f.isEncoding())) {
    __.dl();___.dl();
    if ($if(_it2.first)) {
      __.dl();___.dl();
      if ($if($(type, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
        __.dl();___.ln();
        out("@com.google.errorprone.annotations.CanIgnoreReturnValue").ln();
      }
    }
    __.dl();___.ln();
    ___.dl();_it2.index++;
    _it2.first = false;
  }
}
___.dl();___.ln();
out("private final class InitShim ");
}
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(deriveds)) {
  __dl();__ln();
  __out(" ");
  final org.immutables.generator.Templates.Invokable stage = new
  org.immutables.generator.Templates.Invokable();
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.generator.Templates.Invokable stage = this;
    $(__, disambiguateField, type, new org.immutables.generator.Templates.Fragment() {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();$(__, v.name());
        __out("BuildStage");
        __dl();
      });
    });__dl();__ln();
    __out(" ");
    final org.immutables.generator.Templates.Invokable invokeSuperGet = new
    org.immutables.generator.Templates.Invokable();
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();$(__, v.name());
      __out("Initialize");
      __dl();
    });
  });__dl();__ln();
  __out(" private byte ");
  $(__, stage);
  __out(" = STAGE_UNINITIALIZED;");ln();
  __out(" private ");
  $(__, immutableImplementationType, v);
  __out(" ");
  $(__, v.name());
  __out(";");ln();
  __out(" ");
  __dl();
  if ($if(v.isEncoding())) {
    __dl();$(__, rr.shimFields(), v);
  }
  __dl();__ln();
  __ln();
  __out(" ");
  $(__, immutableImplementationType, v);
  __out(" ");
}
```java
if (v.isEncoding()) {
    __dl();$(__, rr.shimAssign(), v);
}

__.dl();__.ln();
__.out("    ");
$(__, stage);
__.out(" = STAGE_INITIALIZED;");ln();
__.out(" ");ln();
__.out(" ");

__.dl();__.ln();
__.ln();
__.dl();__it2.index++;__it2.first = false;
}

private String formatInitCycleMessage() {
    java.util.List<String> attributes = new java.util.ArrayList();
    {
        final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.ValueAttribute v : $in(deriveds)) {
            __dl();__.ln();
            __out("    ");
            final org.immutables.generator.Templates.Invokable stage = new org.immutables.generator.Templates.Fragment(0) {
                @Override public void run(org.immutables.generator.Templates.Invokation __) {
                    __dl();final org.immutables.generator.Templates.Invokable stage = this;
                    $___.disambiguateField; type, new org.immutables.generator.Templates.Fragment(0) {
                        @Override public void run(org.immutables.generator.Templates.Invokation __) {
                            __dl();$(___.v.name());
                            __out("BuildStage");
                            __dl();
                        }});
            }
        }
    }
    if (stage == STAGE_INITIALIZING) attributes.add("v");
    __dl();__it2.index++;__it2.first = false;
}
```
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(deriveds)) {
    if ($if(v.defaultInterface())) {
        __dl();__ln();
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl();final org.immutables.generator.Templates.Invokable invokeSuperGet = this;
            $(__, disambiguateAccessor, type, new org.immutables.generator.Templates.Fragment());
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
                __dl();$(__, v.names.get);
                __out("Initialize");
                __dl();
            }
        }
    }
    __dl();__ln();
    __ln();
    __out("private ");
    $(__, v.atNullability());
    $(__, v.getType());
    __out(" ");
    $(__, invokeSuperGet);
    __out("() {}").ln();
    __out(" return ");
    $(__, invokeSuper, v);
    __out(".");
   __$(__, v.names.get);
    __out("();").ln();
    __out(""");.ln();
    __dl();_it2.index++;
    _it2.first = false;
}}
__dl();__ln();
__dl();_it1.index++;
_it1.first = false;
}
__dl();__ln();
__dl();
]};

org.immutables.generator.Templates.Invokable constructorAcceptTypeNoOptional() { return
constructorAcceptTypeNoOptional; }
private final org.immutables.generator.Templates.Invokable constructorAcceptTypeNoOptional = new FragmentDispatch(1, 41);
void __t41__constructorAcceptTypeNoOptional(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
$(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();__ln();
    __dl();
    if ($if(a.isOptionalType())) {
      __dl();__ln();
      __out(" ");
      $(__, unwrappedOptionalType, a);
      __ln();
      __out(" ");
    } else {
      __dl();__ln();
      __out(" ");
      $(__, constructorAcceptType, a);
      __ln();
      __out(" ");
    }
    __dl();__ln();
    __dl();
  }
});
__dl();
}
org.immutables.generator.Templates.Invokable constructorAcceptType() { return constructorAcceptType; }
private final org.immutables.generator.Templates.Invokable constructorAcceptType = new FragmentDispatch(1, 42);
void __t42__constructorAcceptType(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
$(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();__ln();
    __dl();
    if ($if(a.isEncoding())) {
      __dl();__ln();
      __out(" ");
      $(__, rr.constructorAcceptType(), a);
      __ln();
    } else if ($if(a.typeKind().isMultimapKind())) {
      __dl();__ln();
      __out(" ");
    }
  }
});
__dl();
}
\texttt{\_\_\_.out("\texttt{\_\_\_.collect.Multimap\<}\);
\_\_\_.out("\texttt{\_\_\_.getConsumedElementType()\);
\_\_\_.out("\_\_\_.getSecondaryElementType()\);
\_\_\_.out("\>\).ln();
}) else if ($if(a\_kind().isMap\_kind())) {
\_\_\_.dl();\_\_\_.ln();
\_\_\_.out(" java\_util\_Map\<\);
\_\_\_.out("\_\_\_.getConsumedElementType()\);
\_\_\_.out("\_\_\_.getSecondaryElementType()\);
\_\_\_.out("\>\).ln();
}) else if ($if(a\_kind().isCollection\_kind())) {
\_\_\_.dl();\_\_\_.ln();
\_\_\_.out(" \_\_\_.Iterable\<\);
\_\_\_.out("\_\_\_.getConsumedElementType()\);
\_\_\_.out("\>\).ln();
}) else if ($if($a.isOptional\_type(), andnot, a.isJdk\_specialized\_optional())) {
\_\_\_.dl();\_\_\_.ln();
\_\_\_.out(" \_\_\_.get\_raw\_type()\);
\_\_\_.out("\<\);
\_\_\_.out("\>\).ln();
}) else {
\_\_\_.dl();\_\_\_.ln();
\_\_\_.out(" \_\_\_.get\_type()\);
\_\_\_.ln();
}
\_\_\_.dl();\_\_\_.ln();
\_\_\_.dl();
});

org.immutables.generator.Templates.Invokable generateJacksonMapped() { return generateJacksonMapped; }
private final org.immutables.generator.Templates.Invokable generateJacksonMapped = new FragmentDispatch(1, 43);
void _t43__generateJacksonMapped(org.immutables.generator.Templates.Invokation ___) {
\_\_\_.dl();final org.immutables.value.processor.meta.ValueType type = $cast(___\_\_\_.param(0));
\_\_\_.ln();
\_\_\_.dl();
if ($if($type.isGenerateJacksonMapped(), and, $classpath\_available, "com\_fastern\_xml\_jackson\_annotation\_json\_creator")))) {
if ($if(type.isUseBuilder())) {
    if ($(v, eq, jval)) {
        builder.
        rr.builderCopyFrom(v);
        builder.
        v.names.addAll();
        builder;
        v.names.putAll();
        builder;
        v.names.init;
    } else if ($if(v.isMapType())) {
        builder;
        v.names.putAll();
        builder;
        v.names.putAll();
        builder;
        v.names.putAll();
    } else if ($if(v.isCollectionType())) {
        builder;
        v.names.addAll();
        builder;
        v.names.addAll();
        builder;
        v.names.addAll();
        builder;
        v.names.addAll();
    } else if ($if(v.isEncoding())) {
        builder.
        rr.builderCopyFrom(v);
        builder.
        v.names.addAll();
        builder;
        v.names.addAll();
        builder;
        v.names.addAll();
    } else {
        builder.
        v.names.init;
        builder;
        v.names.addAll();
        builder;
        v.names.addAll();
        builder;
        v.names.addAll();
    }
}
if ($if(type.isUseConstructor())) {
  __dl();__ln();
  __out(" ");
  __dl();__ln();
  __out(" return ");
  $(_, cast);
  __out("builder.");
  $(_, type.names().build);
  __out("():").ln();
} else if ($if(type.isUseSingletonOnly())) {
  __dl();__ln();
  __out(" return ");
  $(_, cast);
  $(_, type.factoryInstance().relative());
  __out("():").ln();
} else {
  __dl();__ln();
  __out(" ");
  __dl();
  if ($if(type.isUseConstructor())) {
    __dl();__ln();
    __out(" ");
    $(_, type.typeImmutable().relative());
    __out(" instance = ");
    $(_, cast);
    $(_, type.factoryOf().relative());
    __out("(");
    {final org.immutables.generator.Templates.Iteration _it2 = new
      org.immutables.generator.Templates.Iteration();
      for (final org.immutables.value.processor.meta.ValueAttribute v : Sin(type.getConstructorArguments())) {
        if ($if($v.eq, jval)) {
          __dl();__out("jsonValue");
          __dl();_it2.index++;
          _it2.first = false;
        }
      }
    }
    __out(";").ln();
    __out(" ");
  } else if ($if(type.isUseSingleton())) {
    __dl();__ln();
    __out(" ");
    $(_, type.typeImmutable().relative());
    __out(" instance = ");
    $(_, cast);
$(__, type.factoryInstance().relative());
  __.out("();").ln();
  __.out("  ");
}
  __.ln();
  __.out("  ");
}
  __.dl();
  __.out("  ");
  $(__, output.error, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();
      __.out("Cannot generate JSON code when there are no builders, constructors or singletons available");
      __.dl();
    } });
  __.ln();
  __.out("  ");
}
  __.dl();
  __.out("  ");
} final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute o : $in(type.getWithSettableAfterConstruction())) {
    if ($if($(o, eq, jval))) {
      __.dl();
      __.out("  ");
      $(__, o.names.with);
      __.out("(jsonValue);"),ln();
      __.out("  ");
      __.dl();
      _it2.index++;
      _it2.first = false;
    } }
  __.dl();
  __.out("  return instance;"),ln();
}
  __.dl();
  __.out("  ");
}__
  __.dl();
  __.out("  ");
  __.ln();
  __.out("  ");
}
  __.ln();
  __.out("/**");

Utility type used to correctly read immutable object from JSON representation.

@deprecated Do not use this type directly, it exists only for the `<em>Jackson</em>`-binding infrastructure.

```java
final org.immutables.value.processor.meta.ValueType type_hiddenMutableState_1091893888 = $cast(type);
if ($if($(type_hiddenMutableState_1091893888, allowsClasspathAnnotation, "com.google.errorprone.annotations.Immutable"))) {
    __dl(); __out("@SuppressWarnings("Immutable")");
}

final org.immutables.value.processor.meta.ValueType type_overrideJsonDeserialize_1691212826 = $cast(type);
if ($if(type_overrideJsonDeserialize_1691212826.isJacksonDeserialized())) {
    __dl(); __out("@com.fasterxml.jackson.databind.annotation.JsonDeserialize");
}

final org.immutables.value.processor.meta.ValueType type_overrideJsonTypeInfo_1598944724 = $cast(type);
if ($if(type_overrideJsonTypeInfo_1598944724.isJacksonJsonTypeInfo())) {
    __dl(); __out("@com.fasterxml.jackson.annotation.JsonTypeInfo(use=com.fasterxml.jackson.annotation.JsonTypeInfo.Id.NONE)");
}

static final $(__, output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl(); __out("class Json");
    }
});
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if ($if(v.jacksonAnyGetter)) {
  __dl();__ln();
  __out("  final ");
  $(__, v.getType());
  __out("  ");
  $(__, v.name());
  __out(" = new java.util.HashMap");
  $(__, v.getGenericArgs());
  __out("();").ln();
  __dl();_it1.index++;
  _it1.first = false;
}]
__dl();__ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
if ($if($(not, v.jacksonAnyGetter))) {
  __dl();__ln();
  __out("  ");
  $(__, eachLine, v.getAnnotations());
  __ln();
  __out("  ");
  $(__, eachLine, v.initializerInjectedAnnotations());
  __ln();
  __out("  public void ");
  $(__, v.names.beanSet());
  __out("()");
  $(__, v.atNullability());
  $(__, v.getType());
  __out("  ");
  $(__, v.name());
  __out("("");.ln();
  __out("  this.");
  $(__, v.name());
  __out(" = ");
  $(__, v.name());
  __out(";");.ln();
  __out("  ");
  __dl();
  if ($if($(v.isPrimitive(), or, $(v.requiresTrackIsSet(), andnot, v.jacksonAnyGetter)))) {
    __dl();__ln();
    __out("  this.");
    $(__, disambiguateField, type, $(v.name(), "IsSet"));
    __out(" = true;").ln();
    __out("  ");
  }
  __dl();__ln();
  __out("  }").ln();
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```java
__dl(); _it1.index++;
_it1.first = false;
})
__dl(); __ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
if ($if(v.jacksonAnyGetter)) {
  __dl(); __ln();
  __ln();
  __out("  @com.fasterxml.jackson.annotation.JsonAnySetter").ln();
  __out("  public void set").ln();
  $(__, toUpper, v.name());
  __out("(");
  $__ v.getWrappedFirstElementType();
  __out(" key, ");
  $(__, v.getWrappedSecondaryElementType());
  __out(" value) { ").ln();
  __out("    this.");
  $(__, v.name());
  __out(".put(key, value);”).ln();
  __out("  }").ln();
  __dl(); _it1.index++;
  _it1.first = false;
})
__dl(); __ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final java.lang.String signature : $in(type.getNonAttributeAbstractMethodSignatures())) {
  __dl(); __ln();
  __out("  @Override");
  __dl(); __ln();
  __out("  ");
  $(__, signature);
  __out("  { throw new UnsupportedOperationException(); } ”).ln();
  __dl(); _it1.index++;
  _it1.first = false;
})
__dl(); __ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getAllAccessibleAttributes())) {
  __dl(); __ln();
  if ($if(v.isGenerateDerived)) {
    __dl(); __ln();
    __out("  @com.fasterxml.jackson.annotation.JsonIgnore").ln();
    __out("  ");
  }
}
```
```java
@Override
__out(" { throw new UnsupportedOperationException(); }");
__dl();
__it1.index++;
__ln();
__it1.first = false;
}
__dl();
__ln();
__out(" }\n");
$___.generateJsonWithUnsupported, type);
__ln();
__out(" }\n");
__ln();
__out("/**\n");
$___.javadocGenerics, type);
__ln();
__out(" * @param json A JSON-bindable data structure\n"),
__out(" * @return An immutable value type\n"),
__out(" * @deprecated Do not use this method directly, it exists only for the <em>Jackson</em>-binding\n infrastructure\n"),
__ln();
__out(" */\n");
__ln();
__out("@Deprecated\n");
__dl();
if ($if($(classpath.available, "com.fasterxml.jackson.annotation.JsonCreator.Mode"))) {__dl();
__ln();
__out("@com.fasterxml.jackson.annotation.JsonCreator(mode =
com.fasterxml.jackson.annotation.JsonCreator.Mode.DELEGATING)\n");
} else {
__ln();
__out("@com.fasterxml.jackson.annotation.JsonCreator\n");
}
__dl();
__ln();
__out("static\n");
$___.type.generics().def());
__out("\n");
$___.type.typeImmutable().relative());
__out(" fromJson(Json\n");
$___.type.generics().args());
__out(" json \n");
final org.immutables.generator.Templates.Invokable cast = new
org.immutables.generator.Templates.Invokable(run=
org.immutables.generator.Templates.Fragm...)
```
if ($if(type.constitution().returnsAbstractValueType(), or, type.getInnerBuilder().isExtending())) {
    __.dl();__.out("(");
    $.(__, type.typeImmutable().relative());
    _.out(" ");
    }
    __.dl();___.dl();
    }__);__.dl();__.ln();
    ___.dl();
    if ($if(type.isUseBuilder())) {
    __.dl();__.ln();
    ___.out(" ");
    $.(__, type.typeBuilder().relative());
    ___.out(" builder = ");
    $.(__, castBuildStagedBuilder, type, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();$.(__, type.factoryBuilder().relative());
    __.out("()"');
    __.dl();
    } });
    ___.out(";").ln();
    ___.out(" ");
    {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $.in(type.getSettableAttributes())) {
    __.dl();__.ln();
    ___.out(" ");
    ___.dl();
    if ($if(v.requiresTrackIsSet(), or, v.isPrimitive())) {
    __.dl();__.ln();
    ___.out(" if (json.");
    $.(__, disambiguateField, type, $(v.name(), "IsSet");
    ___.out(" ").ln();
    ___.out(" ");
    } else {
    __.dl();__.ln();
    ___.out(" if (json.");
    $.(__, v.name());
    ___.out(" != null) ").ln();
    ___.out(" ");
    }
    __.dl();__.ln();
    ___.out(" ");
    __.dl();
    if ($if(v.isEncoding()) {
    __.dl();__.ln();
    ___.out(" builder.");
    }
$___.builderCopyFrom(v);
$___.out("(json.");
$___.v.name();
$___.out(")");
} else if ($if(v.isCollectionType()) {
  ___.dl();__.ln();
  ___.out(" builder.");
  $(___.v.names.addAll());
  ___.out("(json.");
  $(___.v.name());
  ___.out(")");.ln();
  ___.out(" ");
} else if ($if(v.isMapType()) {
  ___.dl();__.ln();
  ___.out(" builder.");
  $(___.v.names.putAll());
  ___.out("(json.");
  $(___.v.name());
  ___.out(")");.ln();
  ___.out(" ");
} else {
  ___.dl();__.ln();
  ___.out(" builder.");
  $(___.v.names.init);___.out("(json.");
  $(___.v.name());
  ___.out(")");.ln();
  ___.out(" ");
}
___.dl();___.ln();___.out(" ");.ln();
___.out(" ");
___.dl();_it1.index++;_it1.first = false;
})
___.dl();___.ln();___.out(" return ");
$(___.cast);___.out("builder.");
$(___.type.names().build);___.out("()").ln();
} else if ($if(type.isUseSingletonOnly()) {
  ___.dl();___.ln();
  ___.out(" return ");
  $(___.cast);
$(__, type.factoryInstance().relative());
__.out("();").ln();

} else {
__dl();__.ln();
__.out(" ");
final org.immutables.generator.Templates.Invokable varDecl = new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.generator.Templates.Invokable varDecl = this;
    __dl();
    if ($if(type.getWithSettableAfterConstruction())) {
      __dl();{final org.immutables.value.processor.meta.HasStyleInfo s_atVar_1287436599 = $cast(type);
      __dl();
      if ($if($(s_atVar_1287436599, allowsClasspathAnnotation, "com.google.errorprone.annotations.Var"))) {
        __dl();__.out("@com.google.errorprone.annotations.Var ");
      }
      __dl();
    }
    __dl();$(__, type.typeImmutable().relative());
    __out(" instance");
    __dl();
  }});__dl();__.ln();
  __out(" ");
  __dl();
  if ($if(type.isUseConstructor())) {
    __dl();__.ln();
    __out(" ");
    $(__, varDecl);
    __out(" = ");
    $(__, cast);
    $(__, type.factoryOf().relative());
    __out("(");
    [final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
    __dl();__dl();
    if ($if($(not, _it1.first))) {
      __dl();__out(" ");
    }
    __dl();__out("json.");
    $(__, v.name());
    __dl();_it1.index++;
    _it1.first = false;
} else if ($if(type.isUseSingleton())) {
    __.dl();__.ln();
   ('').out(" ");
    $(__, varDecl);
    __.out(" = ");
    $(__, cast);
    $(__, type.factoryInstance().relative());
    __.out("();").ln();
    __.out(" ");
}

} else {
    __.dl();__.ln();
    __.out(" ");
    $(__.output.error, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __.dl();___.out("Cannot generate JSON code when there are no builders, constructors or singletons
available");
            __.dl();
        }
    });
    __.ln();
    __.out(" ");
}

___.dl();__.ln();
___.out(" ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v :
        $in(type.getWithSettableAfterConstruction())) {
        ___.dl();__.ln();
        ___.out(" ");
        __.dl();
        if ($if($v.requiresTrackIsSet(), or, v.isPrimitive())) {
            ___.dl();__.ln();
            ___.out(" if (json.");
            $(__, disambiguateField, type, $(v.name(), "IsSet"));
            ___.out(")").ln();
            ___.out(" ");
        }
    } else {
        ___.dl();__.ln();
        ___.out(" if (json.");
        $(__, v.name());
        ___.out(" != null ")
            __.ln();
        ___.out(" ");
    }
}
org.immutables.generator.Templates.Invokable generateAccessorMethods() { return generateAccessorMethods; }

private final org.immutables.generator.Templates.Invokable generateAccessorMethods = new FragmentDispatch(1, 44);

void _t44__generateAccessorMethods(org.immutables.generator.Templates.Invocation __) {
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  __dl();
  if ($if(type.isAnnotationType())) {
    __dl();
    __out("/** @inheritDoc */").ln();
    __out("@Override").ln();
    __out("public Class<? extends java.lang.annotation.Annotation> annotationType() {").ln();
    __out("return ");
    $(__, type.typeAbstract());
    __out(";").ln();
    __out(""").ln();
  }
  __dl();
}
__.out(" ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getImplementedAttributes())) {
  __.dl();__.ln();
  __.ln();
  __.out("/**").ln();
  __.out("  ");
  __.dl();
  if ($if(v.docComment)) {
    __.dl();__.ln();
    {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
      for (final java.lang.String d : $in(v.docComment)) {
        __.dl();__.ln();
        __.out(" *");
        $(__, d);
        __.dl();__.ln();
        __.dl();_it2.index++;
        _it2.first = false;
      }
    }
    __.dl();__.ln();
    __.out(" ");
  } else {
    __.dl();__.ln();
    __.out(" ");
    __.dl();
    if ($if(v.isEncoding())) {
      __.dl();__.ln();
      {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
        for (final java.lang.String d : $in(v.instantiation.exposeDoc())) {
          __.dl();__.ln();
          __.dl();__.ln();
          __.out(" *");
          __.dl();
          if ($if($(singular, v.instantiation.exposeDoc()))) {
            __.dl();$.out(" ");
          }
        }
        __.dl();__.ln();
        __.out(" ");
      }
      __.dl();$.out(" ");
    }$
    __.dl();$(__.instantiation.filterDoc, d);
    __.ln();
    __.dl();_it2.index++;
    _it2.first = false;
  }
}
if (Slf(v.isArrayType())) {
    __dl();__ln();
    __out("* @return A cloned { @code ");
$(__, v.name());
__out("} array"),ln();
} else if (Slf(v.isGenerateDerived)) {
    __dl();__ln();
    __out("* @return The computed-at-construction value of the { @code ");
$(__, v.name());
__out("} attribute"),ln();
}

} __dl();__ln();
__out(" ");

__dl();__ln();
__out(" */");ln();
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final java.lang.CharSequence a : $in(v.getAnnotations())) {
if (Slf($(a, ne, "@com.fasterxml.jackson.annotation.JsonAnyGetter"))) {
    __dl();__ln();
    $(__, a);
    __ln();
    __dl();_it2.index++;
    _it2.first = false;
    } }
    __dl();__ln();
    
    {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final java.lang.String anj : $in(v.accessorInjectedAnnotations())) {
    __dl();$(__, anj);
    __dl();_it2.index++;
    _it2.first = false;
    }
    __dl();__ln();
    __dl();
    if (Slf(v.jacksonAnyGetter)) {
        __dl();__out("@com.fasterxml.jackson.annotation.JsonAnyGetter"");
    }
    __dl();__ln();
}
if ($if(v.jacksonValue)) {
    __.dl(); __.out("@com.fasterxml.jackson.annotation.JsonValue");
}
___.ln();
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
 ___.dl();
 if ($if(a_deprecation_286924011.deprecated)) {
    ___.dl(); __.out("@Deprecated");
  }
 __.ln();
 __.out("@Override").ln();
 __.out(" ");
 ___.dl();
if ($if(v.isEncoding())) {
    ___.dl(); __.ln();
 $(__, rr.accessor(), v, new org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();$(__, disambiguateField, type, "initShim");
        __.dl();
    } });
    __.ln();
    __.out(" ");
} else if ($if(v.isJdkOptional())) {
    ___.dl(); __.ln();
  $(__, v.getAccess());
 $(__, v.getType());
 __.out(" ");
 $(__, v.names.get);
 __.out("() {").ln();
 ___.dl();
if ($if(v.isJdkSpecializedOptional())) {
    ___.dl(); ___.ln();
 __.out(" return ");
 $(__, v.name());
 __.out(" != null").ln();
 __.out(" ? ");
 $(__, v.getRawType());
 __.out("of(");
 $(__, v.name());
 __.out(" ").ln();
 __.out(" ");
 $(__, v.getRawType());
 __.out("empty:");
}
} else {
  _.dl();_.ln();
  _.out("  return ");
  $(_, v.getRawType());
  _.out(".ofNullable(");
  $(_, v.name());
  _.out(");").ln();
}

} else {
  _.dl();_.ln();
  _.out("} ");.ln();
  _.out(" ");
}

} else {
  _.dl();_.ln();
  $(_, v.getAccess());
  $(_, v.getNullability());
  $(_, immutableImplementationType, v);
  _.out(" ");
  $(_, v.names.get);  
  _.out("() ").ln();
  _.dl();
  if ($(type.isGenerateSafeDerived(), and, $(v.isGenerateDerived, or, v.isGenerateDefault))) {
    _.dl();_.ln();
    _.out("  InitShim shim = this.");
    $(_, disambiguateField, type, "initShim");
    _.out(";").ln();
    _.out(" ");
    _.dl();
    if ($(isArrayType(), andnot, v.isNullable())) {
      _.dl();_.ln();
      _.out("  return shim != null").ln();
      _.out("  ? shim.");
      $(_, v.names.get);  
      _.out("().clone() ").ln();
      _.out("  : this.");
      $(_, v.name());
      _.out("().clone();").ln();
      _.out(" ");
    } else {
      _.dl();_.ln();
      _.out("  return shim != null").ln();
      _.out("  ? shim.");
      $(_, v.names.get);  
      _.out("()").ln();
      _.out("  : this.");
    }
  } else {
    _.dl();_.ln();
    _.out("  return ");
    $(_, v.getRawType());
    _.out(".ofNullable(");
    $(_, v.name());
    _.out(" ");.ln();
$(__, v.name());
__out(";").ln();
__out(" ");

}__dl();__ln();
} else if ($if(v.isArrayType())) {
__dl();__ln();
__out(" return ");
$__(), valueFromValue, v, v.name());
__out(";").ln();

} else {
__dl();__ln();
__out(" return ");
$__(), v.name());
__out(";").ln();

}
__dl();__ln();
__out(""").ln();
__out(" ");

}__dl();__ln();
__out(" ");
__dl();__it1.index++;__it1.first = false;
}__dl();__ln();
__out(" ");
__dl();
if ($if(type.isGenerateOrdinalValue())) {
__dl();__ln();
__ln();
__out("/** [@InheritDoc] */").ln();
__out("@Override").ln();
__out("<public int ordinal() ").ln();
__out(" return ordinal;").ln();
__out(" ").ln();

}__dl();__ln();
__dl();
};

org.immutables.generator.Templates.Invokable generateObjectUtilityMethods() { return
generateObjectUtilityMethods; }

private final org.immutables.generator.Templates.Invokable generateObjectUtilityMethods = new
FragmentDispatch(1, 45);

void _t45__generateObjectUtilityMethods(org.immutables.generator.Templates.Invocation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  final org.immutables.generator.Templates.Invokable equalToType = new
  org.immutables.generator.Templates.Frag"ment(0) {
  @Override public void run(org.immutables.generator.Templates.Invocation __) {
    __dl();final org.immutables.generator.Templates.Invokable equalToType = this;
    __dl();
    if ($if(type.isAnnotationType())) {
      __dl();$___.type.typeAbstract().relativeRaw());
    } else {
      __dl();$___.type.typeImmutable().relativeRaw());
      $(___.type.generics().unknown);
    }
    __dl();___.dl();
  } });___.dl();___.ln();
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
  final java.util.List<org.immutables.value.processor.meta.ValueAttribute> getters =
  $cast(type.getEquivalenceAttributes());
  __dl();___.ln();
  ___.dl();
  if ($if($(not, type.isEqualToFinal))) {
    __dl();___.ln();
    ___.dl();
    if ($if($(type.isUseReferenceEquality(), ornot, type.isEqualToDefined))) {
      __dl();___.ln();
      ___.ln();
      __.out("/**").ln();
      ___.ln();
      __.out(" */*").ln();
      __.dl();
      if ($if(type.isAnnotationType())) {
        __.dl();___.ln();
        ___.out(" * This instance is equal to any implementation of the { @link ");
        $(___.type.typeValue().relativeRaw());
        __.out("} type with equal attribute values.").ln();
      } else {
        __.dl();___.ln();
        __.out(" * This instance is equal to all instances of { @code ");
        $(___.type.typeImmutable().simple());
        __.out("} that have equal attribute values.").ln();
      }
    } else {
      __.dl();___.ln();
      __.out(" * This instance is equal to all instances of { @code ");
      $(___.type.typeImmutable().simple());
      __.out("} that have equal attribute values.").ln();
    }
  }
  __.dl();___.ln();
if (Slf(type.isUseReferenceEquality())) {
    __dl();__ln();
    __out(" * As instances of the { @code ");
    $(__, type.typeImmutable().simple());
    __out(" } class are interned, the { @code equals } method is implemented").ln();
    __out(" * as an efficient reference equality check.").ln();
}
}

__out(" @return { @code true } if { @code this } is equal to { @code another } instance").ln();
__out(" */").ln();
__out("@Override").ln();
__out("public boolean equals(");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(type);
__dl();
if (Slf(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
    __dl();__out("@javax.annotation.Nullable ");
}
__out("Object another { ").ln();
__out(" ");
__dl();
if (Slf(type.isUseReferenceEquality())) {
    __dl();__ln();
    __out(" return this == another;").ln();
    __out(" ");
} else {
    __dl();__ln();
    __out(" if (this == another) return true;").ln();
    __out(" return another instanceof ");
    $(__, equalToType);
    __ln();
    __out(" && equalTo("");
    $(__, equalToType);
    __out(" another);").ln();
    __out(" ");
}
__dl();__ln();
__out(" ").ln();
__dl();__ln();
if ($if(type.isUseEqualTo())) {
    __dl(); __ln();
    if ($if($(type.isEqualToDefined, or, $(type.isCacheHash(), or, getters)))) {
        __dl(); __ln();
        __dl(); __ln();
    } else {
        __dl(); __ln();
        __out("@SuppressWarnings("MethodCanBeStatic")").ln();
        __dl(); __ln();
        __out("private boolean equalTo(");
        $__ = equalToType;
        __out(" another) {").ln();
        __out("    ");
        __dl();
        if ($if(type.isEqualToDefined)) {
            __dl(); __ln();
            __out(" return super.equals(another);").ln();
            __out("    ");
            __dl();
        } else {
            __dl(); __ln();
            if ($if(type.isCacheHash())) {
                __dl(); __ln();
                if ($if(type.isAnnotationType())) {
                    __dl(); __ln();
                    if ($if(type.isUseLazyhash())) {
                        __dl(); __ln();
                        __out("hashCode != 0 && anotherHashCode != 0 &&")
                    } else {
                        __dl();
                    }
                } else {
                    __dl();
                    __out("final int anotherHashCode = ((");
                    __out("another).hashCode;");
                    __out("    ");
                    __dl();
                    if ($if(type.isUseLazyhash())) {
                        __dl(); __ln();
                        __out("hashCode != 0 && anotherHashCode != 0 &&");
                    }
                }
            } else {
                __dl();
            }
        }
    }
} else {
    __dl();
    __out("    ");
    __dl();
    if ($if(type.isCacheHash())) {
        __dl(); __ln();
        __out("    ");
        __dl();
    }
    __dl();
    if ($if(type.isAnnotationType())) {
        __dl(); __ln();
        __out("    if (another instanceof ");
        $__ = type.typeImmutable().relativeRaw();
        __out(""").ln();
        __out("    final int anotherHashCode = ((");
        $__ = type.typeImmutable().relativeRaw();
        __out("another).hashCode;");
        __out("    if (";
        __dl();
        if ($if(type.isUseLazyhash())) {
            __dl(); __ln();
            __out("hashCode != 0 && anotherHashCode != 0 &&");
        }
    }
}
if ($if(type.isUseLazyhash())) {
    __dl();__out("hashCode != 0 && another.hashCode != 0 && ");
}

__dl();__out("hashCode != another.hashCode return false;").ln();
__out(" ");ln();
__out(" ");

} else {
    __dl();__ln();
    __out(" if (");
    __dl();
    if ($if($if(type.isUseLazyhash()))) {
        __dl();__out("hashCode != 0 && another.hashCode != 0 && ");
    }
    __dl();__out("hashCode != another.hashCode return false;").ln();
    __out(" ");
    __out(" ");
    __dl();__ln();
    __out(" return ");
    __dl();
    if ($if($if($not, getters))) {
        __dl();__out("true");
    }
}
__dl();{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {
        __dl();__dl();
        if ($if($if($not, _it2.first))) {
            __dl();__ln();
            __out(" && ");
        }
        __dl();$(__, equalsAttribute, v, type.isAnnotationType());
        __dl();__it2.index++;
        _it2.first = false;
    }
}.__dl();__out(";").ln();
__out(" ");
__dl();__ln();
__out(""");ln();
final org.immutables.generator.Templates.Invokable computeHashCodeBody = new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.generator.Templates.Invokable computeHashCodeBody = this;
    final org.immutables.generator.Templates.Invokable h = new org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
        $(__, disambiguateField, type, "h");
      }
    };
    if ($If($(type.isAnnotationType(), and, getters.isEmpty()))) {
      __.dl(); __.ln();
      __.out("return 0;").ln();
    } else if ($If(type.isAnnotationType())) {
      __.dl(); __.ln();
      __.out(" @com.google.errorprone.annotations.Var ");
      __.out("int ");
      $(__, h);
      __.out(" = 0;").ln();
    } else if ($If(s_atVar_1287436599, allowsClasspathAnnotation, "com.google.errorprone.annotations.Var")) {
      __.dl(); __.out("@com.google.errorprone.annotations.Var ");
    }
    for (final org.immutables.value.processor.meta.ValueAttribute v : $In(getters)) {
      __.dl(); __.ln();
      __.out("@");
      $(__, h);
__out(" += 127 * \"" );
$___.out("_.hashCode() ^ ");
$___.out(";").ln();

} else {
__dl();__ln();
__out("  ");
$___.h;
__out(" += 127 * \"" );
$___.v.names.get;
__out("_.hashCode() ^ ");
$___.v.name();
__out(".hashCode();").ln();

}
__dl();__ln();
__dl();_it2.index++; _it2.first = false;
}
__dl();__ln();
__out("  return ");
$___.h;
__out(";").ln();
} else if ($if(getters.isEmpty())) {
__dl();__ln();
__out("  return ");
$___.type.hashCode();
__out(";").ln();

}
__dl();__ln();
__out("  int ");
$___.h;
__out(" = 5381;" ).ln();
{final org.immutables.value.processor.meta.HasStyleInfo s_atVar_1287436599 = $cast(type);
__dl();
if ($if($(s_atVar_1287436599, allowsClasspathAnnotation, "com.google.errorprone.annotations.Var"))) {

__dl();__out("@com.google.errorprone.annotations.Var ");

}
__dl();
__out("int ");
$___.h;
__out(" = 5381;" ).ln();
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {
__dl();__ln();}
if (v.isEncoding()) {
  __dl(); __ln();
  __out(" ");
  __out(" += (");
  __out(" << 5) + (");
  $(__, rr.hash(), v);
  __out(";").ln();
} else if (v.isArrayType()) {
  __dl(); __ln();
  __out(" ");
  __out(" += (");
  __out(" << 5) + java.util.Arrays.hashCode(");
  $(__, v.name());
  __out(";").ln();
} else if (v.isNullAllow(), or, v.isJdkOptional()) {
  __dl(); __ln();
  __out(" ");
  __out(" += (");
  __out(" << 5) + ");
  $(__, objectsHashCode, type);
  __out(";");
  $(__, v.name());
  __out(";").ln();
} else if (v.isPrimitive()) {
  __dl(); __ln();
  __out(" ");
  __out(" += (");
  __out(" << 5) + ");
  $(__, primitiveHashCode, v);
  __out(";").ln();
} else {
  __dl(); __ln();
  __out(" ");
  __out(" += (");
  __out(" << 5) + ");
  $(__, v.name());
}
if ($if(type.isHashCodeDefined)) {
  __out("  \@Override\n  public int hashCode() {\n    return \n  }\n} else {
  __out("  \n  }\n}
__out(" * Returns a ");
__dl();
if ($if(type.isUsePrehashed()) {__dl();__out("precomputed-on-construction");
}
else {
__dl();__out("lazily computed");
}
__dl();__out(" hash code from attributes: ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute a : $in(getters)) {
__dl();__dl();__out("precomputed-on-construction");
}
else {
__dl();__ln();__out(" * Computes a hash code from attributes: ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute a : $in(getters)) {
__dl();__dl();
if ($if($not._it2.first)) {
__dl();__out(",");
}
__out("{@code ");
$(__, a.name());
__out("}"");
__dl();_it2.index++;
_it2.first = false;
}
__dl();__out(".").ln();
}
else {
__dl();__ln();
__out(" * Computes a hash code from attributes: ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute a : $in(getters)) {
__dl();__dl();
if ($if($not._it2.first)) {
__dl();__out(",");
}
__out("{@code ");
$(__, a.name());
__out("}"");
__dl();_it2.index++;
_it2.first = false;
}
__dl();__out(".").ln();
}
__dl();__ln();__out(" * @return hashCode value").ln();
__out(" */").ln();
__out("@Override").ln();
public int hashCode() {
  if (type.isUsePrehashed()) {
    return hashCode;
  } else if (!getters) {
    return 0;
  } else if (type.isUseLazyhash()) {
    int h = this.hashCode;
    if (h == 0) {
      h = computeHashCode();
      this.hashCode = h;
    }
    return h;
  } else {
    computeHashCodeBody;
  }
}

private int computeHashCode() {
  ...
}

if (type.isCacheHash() && getters) {
  ...
}
org.immutables.generator.Templates.Invokable generateToString() { return generateToString; }
private final org.immutables.generator.Templates.Invokable generateToString = new FragmentDispatch(1, 46);
void _t46__generateToString(org.immutables.generator.Templates.Invokation __) {
  __dl():final org.immutables.value.processor.meta.ValueType type = __cast(__param(0));
  __ln();
  __dl();
  if ($if($not(type.isToStringDefined))) {
    __dl():__ln();
    __ln();
    __out("/**").ln();
    __out(" * Prints the immutable value {@code ");
    __out(___.type.name());
    __out("}");
    __dl();
    if ($if(type.getEquivalenceAttributes())) {
      __dl():__out(" with attribute values");
    }
  }
  __dl():__out(".").ln();
  __out(" * @return A string representation of the value").ln();
  __out(" */").ln();
  __out("@Override").ln();
  __out("public String toString() {").ln();
  __dl();
  if ($if($not(type.getEquivalenceAttributes()))) {
    __dl():__ln();
    __out(" ");
    __dl();
    if ($if(type.isAnnotationType())) {
      __dl():__ln();
      __out(" return \n@ ");
      __out(___.type.name());
      __out("\n,").ln();
      __out(" ");
    } else {
      __dl():__ln();}
__.out(" return \n");
$___.type.name();
__.out(" \{
").ln();
__.out(" ");
}
__.dl();__.ln();
} else if ($if(type.isGenerateJdkOnly())) {
__.dl();__.ln();
__.out(" ");
__.dl();
if ($if(type.hasOptionalAttributes())) {
__.dl();__.ln();
__.out(" ");
$___.flag.set();
__.dl();__.ln();
__.out(" java.lang.StringBuilder builder = new java.lang.StringBuilder(");
__.dl();
if ($if(type.isAnnotationType())) {
__.dl();__.out("@");
$___.type.name();
__.out("\n");
} else {
__.dl();__.out("\n");
$___.type.name();
__.out("\n");

}
__.dl();__.out(";");ln();
__.out(" ");
final org.immutables.generator.Templates.Invokable startLen = new
org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__.dl();final org.immutables.generator.Templates.Invokable startLen = this;
$___.output.length, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invocation __) {
__.dl();__.dl();
if ($if(type.isAnnotationType())) {
__.dl();__.out("@");
$___.type.name();
__.out("\n");
} else {
__.dl();$___.type.name();
__.out("\n");
}
else if ($if(v.isArrayType())) {
    __dl();__ln();
    __out("  ");
    if ($if($(not, _it1.first))) {
        __dl();__dl();
        if ($if(flag.is)) {
            __dl();__out("if (builder.length() > ");
            $(__, startLen);
            __out(" )");
        }
        __dl();$(__, flag.clear());
        __ln();
        __out("  builder.append(");__out("\n");
    }
    __dl();$(__, v.names.raw);
    __out("=").append("{final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
    final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new
    org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
            __out("java.util.Arrays.toString(");
            $(__, v.name());
            __out(") ");
            __dl();
        });__dl();__dl();
    }};__dl();__dl();
    if (Sif(a_maybeMasked_1900495401.getRedactedMask())) {
        __dl();$(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
    } else {
        __dl();$(__, value_maybeMasked_1900495401);
    }
} else if ($if($isJdkOptional(), or, $isNullable())) {
    __dl();__ln();
    __out("  ");
} else if ($if($is($isJdkOptional(), or, $isNullable()))) {
    __dl();__ln();
    __out("  ");
if ($if($not, _it1.first)) {
    __d(); __d();
    if ($if(flag.is)) {
        __d(); __d();
        __out("if (builder.length() > ");
        __out(" +");
        __out(" ");
    }
} __d(); __out("builder.append(\", "););

} __d(); __ln();
__out(\n"
builder.append(\n"
);
$__ v.names.raw; __out("=").append(

} final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __d(); final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
        __d();
    }); __d(); __d();
    if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
        __d(); $(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
    } else {
        __d(); __d();
    }
}

} __d(); __out("; ").ln();
__out(" "); ln();
__out(" ");
} else if ($if(v.isOptionalType())) {
    __d(); __ln();
    __out(" if ( ");
    $(__, v.name());
    __out(" ");
} final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
__d();
if ($if(a_optionalPresent_767352996.isFugueOptional(), or,
a_optionalPresent_767352996.isJavaslangOptional())) {

__.dl();__.out("isDefined");

} else {
    __.dl();__.out("isPresent");

} __.dl();__.out("()");

} __.out(" ").ln();
___.out(" ");
___.dl();
if (Sif($(not, _it1.first))) {
    __.dl();___.dl();
    if (Sif(flag.is)) {
        __.dl();__.out("if (builder.length() > ");
        ___.out(" ");
        ___.out(" ");
    }
    __.dl();__.out("builder.append(, ");
}
___.dl();__.ln();
___.out(" builder.append("");$_v.__.names.raw;___.out("=").append({final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
    final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __.dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
            ___.out(".");
            ___.out("=");
            ___.out("=");
            __.dl();
        }
    });___.dl();___.dl();
    if (Sif(a_maybeMasked_1900495401.getRedactedMask())) {
        __.dl();$___.literal.string, a_maybeMasked_1900495401.getRedactedMask();
    } else {
        ___.dl();$___.value_maybeMasked_1900495401;
    }
}
___.dl();
___.out(" ").ln();
___.out(" ");
___.out(" ");}
__out("    ");

} else {
    __dl();__ln();
    __out("   ");
    __dl();
    if ($if($not, __it1.first)) {
        __dl();__dl();
        __dl();__out("if (builder.length() > ");
        $(___startLen);
        __out("  ");
    }
    __dl();$(___flag.clear());
    __ln();
    __out("  builder.append("\", ");

} __dl();$(___flag.clear());
__ln();
__out("  builder.append("\n")
{final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
 final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
        $(___v.name());
        __dl();
    });__dl();__dl();
    if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
        __dl();$(___literal.string, a_maybeMasked_1900495401.getRedactedMask());
    } else {
        __dl();$(___value_maybeMasked_1900495401);
    }
    __dl();
}
__out(""");__ln();
__out("   ");

} __dl();__ln();
__out("   ");
__dl();__it1.index++;
__it1.first = false;}}
null
if ($if($(not, _it1.first))) {
  __.dl();__:ln();
  __.out("      + ");
}
___.dl();$:(_, v.names.raw);
___.out("=" + ");
{final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
  final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new
  org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
          __.dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
          $(_, v.name());
          __.dl();
      }};___.dl();__:dl();
      if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
          __.dl();$:(_, literal.string, a_maybeMasked_1900495401.getRedactedMask());
      } else {
          __.dl();$:(_, value_maybeMasked_1900495401);
      }
}.__.dl();
}.__.ln();
___.out(" ");
}
___.dl();__:ln();
___.out(" ");
___.dl();__:ln();
___.out("  ");
___.dl();___.ln();
___.out("  ");
___.dl();__:ln();
___.out("  + ");
___.dl();
if ($if(type.isAnnotationType())) {
  __.dl();__:out("\n")
} else {
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```java
__dl();__out("\n\v\n");

} __dl();__out(";").ln();
__out("  ");

} __dl();__ln();

} else {
__dl();__ln();
__out("  return ");
$___.type.typeMoreObjects();
__out(".toStringHelper("\n");
__dl();
if ($if(type.isAnnotationType())) {
__dl();__out("@");

} __dl();$___.type.name();
__out("\v").ln();
__out("  .omitNullValues()").ln();
__out("  ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getEquivalenceAttributes())) {
__dl();__ln();
__out("  ");
__dl();
if ($if(v.isRedactedCompletely())) {
__dl();__dl();__ln();
__out("  ");
} else if ($if(v.isEncoding())) {
__dl();__ln();
__out("  .add("\n");
$___.v.names.raw);
__out("\v", "");
{final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
  $(___.rr.string(), v);
  __dl();
});__dl();__dl();
if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
__dl();$___.literal.string, a_maybeMasked_1900495401.getRedactedMask());
}
else {
```
```java
__dl();$_( value_maybeMasked_1900495401);
}
__dl();
}
__out("").ln();
__out(" ");
} else if ($if(v.isArrayType())) {
__dl();__ln();
__out(" .add(");
$__ (v.names.raw);
__out("",);
{final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
    final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invocation __) {
            __dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
            __out("java.util.Arrays.toString(");
            $(__, v.name());
            __out("");
            __dl();
        });__dl();__dl();
if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
    __dl();$__ (literal.string, a_maybeMasked_1900495401.getRedactedMask());
} else {
    __dl();$(__, value_maybeMasked_1900495401);
}
    __dl();
    __out("").ln();
    __out(" ");
} else if ($if(v.isJdkOptional())) {
    __dl();__ln();
    __out(" .add(");
    $__ (v.names.raw);
    __out("", ");
    {final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
        final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invocation __) {
                __dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
                $(__, v.name());
                __dl();
            });__dl();__dl();
if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
    __dl();$__ (literal.string, a_maybeMasked_1900495401.getRedactedMask());
} else {
    __dl();$(__, value_maybeMasked_1900495401);
}
```
} else {
__.dl();$(__, value_maybeMasked_1900495401);
}
__.dl();
}
__.out(")").ln();
__.out(" ");
} else if ($if(v.isGuavaOptional())) {
__.dl();__.ln();
__.out("
.add(\"");
$(__, v.names.raw);
__.out("\", ");
{final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new
org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__.dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
$(__, v.name());
__.out(".orNull()");
__.dl();
}};__.dl();__.dl();
if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
__.dl();$(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
} else {
__.dl();$(__, value_maybeMasked_1900495401);
}
__.dl();
}
__.out(")").ln();
__.out(" ");
} else if ($if(v.isOptionalType())) {
__.dl();__.ln();
__.out("
.add(\"");
$(__, v.names.raw);
__.out("\", ");
{final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new
org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__.dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
$(__, v.name());
__.out(".");
$(__, optionalPresent, v);
__.out(" ? ");

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$(__, v.name());
  __.out(".");
$(__, optionalGet, v);
  __.out(" : null");
__dl();
} __dl();__dl();
if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
  __dl();$(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
} else {
  __dl();$(__, value_maybeMasked_1900495401);
}
__dl();
} __out("").ln();
__out(" ");

} else {
  __dl();__ln();
  __out("\n");
$(__, v.names.raw);
  __out(" ");
  
  } final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
  final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new
  org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
      $(__, v.name());
      __dl();
    } __dl();__dl();
  if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
    __dl();$(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
  } else {
    __dl();$(__, value_maybeMasked_1900495401);
    }
    __dl();
    __out("\n");
    __out(" ");
    }
    __dl();__ln();
    __out(" ");
    __dl();__it1.index++;__it1.first = false;
org.immutables.generator.Templates.Invokable generateDerivedConstruction() { return generateDerivedConstruction; }
private final org.immutables.generator.Templates.Invokable generateDerivedConstruction = new FragmentDispatch(2, 47);
void _t47__generateDerivedConstruction(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    final java.lang.Iterable<org.immutables.value.processor.meta.ValueAttribute> constructorArgs = $cast(__.param(1));
    {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute a : $in(type.getImplementedAttributes())) {
        if ($if($(a.isGenerateDefault, or, a.isGenerateDerived))) {
            if ($if($(a.isGenerateDerived, andnot, type.isGenerateSafeDerived()))) {
                this.__.name();
                $(__, valueFromValue, a, new org.immutables.generator.Templates.Fragment(0) {
                    @Override public void run(org.immutables.generator.Templates.Invokation __) {
                        $(__, invokeSuper, a);
                    }
                });
            }
        }
    }
}}
if ($if(type.isGenerateSafeDerived())) {
    final org.immutables.generator.Templates.Invokable shim = new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            final org.immutables.generator.Templates.Invokable shim = this;
            $(__, disambiguateField, type, "initShim");
        }
    };
    final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute a : $in(type.getImplementedAttributes())) {
        if ($if($(a.isGenerateDefault, or, a.isGenerateDerived))) {
            if ($if(a.isEncoding())) {
                $(__, rr.shimAssignExtract(), a, shim);
            } else if ($if($(a, notin, constructorArgs))) {
                __.out("this.");
            } else if ($(a, isEncoding())) {
                $(__, rr.derivedAssign(), a);
            }
        }
    }
} else if ($if(a.isEncoding())) {
    $(__, rr.derivedAssign(), a);
}

null

org.immutables.generator.Templates.Invokable generateAfterConstruction() { return generateAfterConstruction; }
private final org.immutables.generator.Templates.Invokable generateAfterConstruction = new FragmentDispatch(2, 48);
void _t48__generateAfterConstruction(org.immutables.generator.Templates.Invocation __) {
    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    final java.lang.Boolean usingBuilder = $if(__.param(1));
    __ln();
    __out("  ");
    __dl();
    if ($if(type.isUsePrehashed())) {
      __dl();__.ln();
      __out("this.hashCode = ");
      __dl();
      if ($if(type.isHashCodeDefined)) {
        __dl();__.out("super.hashCode()");
      } else {
        __dl();$(__, disambiguateAccessor, type, "computeHashCode");
        __out("()");  
      }
    } else {
      __dl();__.ln();
      __out("  ");
    }
    __dl();__.ln();
```java
__out("this.domain = builder.domain;").ln();
__out("    ");

} else {
  __dl();__ln();
  __dl();__ln();
  __out("this.domain = Domain.get();").ln();
  __out("    ");
}

__dl();__ln();
__out("    ");

__dl();__ln();
__out("    ");

if ($if(type.isGenerateSafeDerived())) {
  __dl();__ln();
  __out("this.");
  $(__, disambiguateField, type, "initShim");
  __out(" = null;").ln();
  __out("    ");
}

__dl();__ln();
__dl();

org.immutables.generator.Templates.Invokable generateReturnCopy() { return generateReturnCopy; }
private final org.immutables.generator.Templates.Invokable generateReturnCopy = new FragmentDispatch(3, 49);
void _t49__generateReturnCopy(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final org.immutables.value.processor.meta.ValueAttribute modified = $cast(__.param(1));
  final java.lang.String expression = __.param(2).toString();
  $(__, generateReturnCopyRaw, type, modified.name(), expression);
  __dl();
}

org.immutables.generator.Templates.Invokable generateReturnCopyRaw() { return generateReturnCopyRaw; }
private final org.immutables.generator.Templates.Invokable generateReturnCopyRaw = new FragmentDispatch(3, 50);
void _t50__generateReturnCopyRaw(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.String modified = __.param(1).toString();
  final java.lang.String expression = __.param(2).toString();
  __ln();
  __out("    return ");
```

final org.immutables.value.processor.meta.ValueType type_validated_1881291508 = $cast(type);
final java.lang.Boolean qualified_validated_1881291508 = $cast($false);
final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = this;
        __.out("new ");
        $(__, type.typeImmutable().relativeRaw());
        $(__, type.generics().diamond());
        __.out("(");
        $(__, output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
                __.dl();___.ln();
                __.out(" ");
                __.dl();
                if ($if(type.isSynthCopyConstructor())) {
                    __.dl();___.out("this.").ln();
                    __.out(" ");
                }
                __.dl();{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
                    for (final org.immutables.value.processor.meta.ValueAttribute a : $in(type.getImplementedAttributes())) {
                        if ($if($not, a.isGenerateDerived)) {
                            __.dl();___.dl();
                            if ($if($not, _it1.first)) {
                                __.dl();___.out(",").ln();
                                __.dl();
                            }
                            if ($if(a.name(), eq, modified)) {
                                ___.dl();$(__, expression);
                            } else {
                                __.dl();___.out("this.");
                                __.dl();
                                if ($if(a.hasVirtualImpl())) {
                                    __.dl();$(__, a.names.get);
                                    __.out("()");
                                } else {
                                    __.dl();$(__, a.name());
                                }
                            }
                        } else {
                            __.dl();$(__.name());
                        }
                    }
                    __.dl();___.dl();_it1.index++;
                }}}}}
}
_it1.first = false;
})
__dl();__dl();
})
__out(""");
__dl();
})__dl();__dl();
if ($if(type_validated_1881291508.isUseValidation())) {
__dl();__dl();
if ($if(qualified_validated_1881291508)) {
__dl();$___.type_validated_1881291508.typeImmutable().relativeRaw();
__out(".");
}
__dl();__out("validate("");
$___.expression_validated_1881291508;
__out(""");
} else {
__dl();$___.expression_validated_1881291508;
}
__dl();
__out(";");ln();
__dl();
};

org.immutables.generator.Templates.Invokable generateReturnCopyContextual() { return generateReturnCopyContextual; }
private final org.immutables.generator.Templates.Invokable generateReturnCopyContextual = new FragmentDispatch(2, 51);
void _t51__generateReturnCopyContextual(org.immutables.generator.Templates.Invocation __) {
__dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
final org.immutables.value.processor.meta.ValueAttribute modified = $cast(__.param(1));
__ln();
{final org.immutables.value.processor.meta.ValueType type_generateReturnCopy_879511243 = $cast(type);
final org.immutables.value.processor.meta.ValueAttribute modified_generateReturnCopy_879511243 = $cast(modified);
final java.lang.String expression_generateReturnCopy_879511243 = $cast("newValue");
___.generateReturnCopyRaw, type_generateReturnCopy_879511243,
modified_generateReturnCopy_879511243.name(), expression_generateReturnCopy_879511243);
}
__ln();
__dl();
}
org.immutables.generator.Templates.Invokable generateReturnBuilderConstructed() { return
generateReturnBuilderConstructed; }
private final org.immutables.generator.Templates.Invokable generateReturnBuilderConstructed = new
FragmentDispatch(1, 52);
void _t52__generateReturnBuilderConstructed(org.immutables.generator.Templates.Invokation __) { 
___.dl();final org.immutables.value.processor.meta.ValueType type = $cast(___.param(0));
___.ln();
___.out("return ");
{final org.immutables.value.processor.meta.ValueType type_validated_1881291508 = $cast(type);
final java.lang.Boolean qualified_validated_1881291508 = $cast($true);
final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new
org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
___dl();final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = this;
___ln();
___out("new ");
_${_.type.typeImmutable().relativeRaw()};
_${_.type.generics().diamond()};
___out("(");
_${_.output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
___dl();___ln();
___out("  ");
___dl();
if ($if(type.isSynthCopyConstructor())) {
___dl();___out("null,").ln();
___out("  ");

}
___dl();{final org.immutables.generator.Templates.Iteration _it1 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getImplementedAttributes())) {
if ($if($not, v.isGenerateDerived)) {
___dl();___dl();
if ($if($not, _it1.first)) {
___dl();___out(",").ln();
___out("  ");

}
___dl();${_.valueFromBuilder, v, ""};
___dl();_it1.index++;
_it1.first = false;
}}}
___dl();___dl();
})
___out(""");
___dl();
});
___dl();___dl();
if ($if(type_validated_1881291508.isUseValidation())) {
if ($if(qualified_validated_1881291508)) {
  __.dl();$
  $.type_validated_1881291508.typeImmutable().relativeRaw();
  __.out(".");
}
___.dl();___.out("validate(");
$(__, expression_validated_1881291508);
___.out(")");
}
else {
  __.dl();$
  $.expression_validated_1881291508;
}
___.dl();
__out("/**").ln();
__out(" * Copy the current immutable object with elements that replace the content of ").ln();
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
  $__().sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(".").ln();
__out(" * The array is cloned before being saved as attribute values.").ln();
__out(" * @param elements The non-null elements for ").ln();
$__().v.name());
__ln();
__out(" * @return A modified copy of {code this} object").ln();
__out("*/").ln();
{final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
  __dil();
  if ($if($(a_varargsSafety_1368213209.isNonRawElementType(), or,
a_varargsSafety_1368213209.hasTypeVariables))) {
    __dil();__out("@SafeVarargs @SuppressWarnings("varargs")");
  }
  __dil();
}
__ln();
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  __dil();
  if ($if(a_deprecation_286924011.deprecated)) {
    __dil();__out("@Deprecated");
  }
  __dil();
}
__ln();
__out("public final ");
$__().type.typeImmutable().relative());
__out(" ");
$__().v.names.with);
__out(" ");
$__().v.atNullability());
$__().v.getElementType());
__out("... elements ").ln();
__out(" ");
$__().v.atNullabilityLocal());
$__().immutableImplementationType, v);
__out(" new\nValue = ");
__dil();
if ($if(v.isNull)) {
  __dil();__out("elements == null ? null : ");
`__dl();__out("elements.clone();").ln();
__out(" ");
$___.generateReturnCopyContextual(type, v);
__ln();
__out(" )");
$___.out(" ");
} else if ($if(v.isCollectionType()) {
__dl();__ln();
__ln();
__out("/**").ln();
__out(" * Copy the current immutable object with elements that replace the content of ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);}
__out(".").ln();
__out(" * @param elements The elements to set").ln();
__out(" * @return A modified copy of [ @code this ] object").ln();
__out(" */").ln();
{final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
__dl();
if ($if($(a_varargsSafety_1368213209.isNonRawElementType(), or,
a_varargsSafety_1368213209.hasTypeVariables)) {
__dl();__out("@SafeVarargs @SuppressWarnings("varargs\")");
}
__dl();
}
__ln();
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
__dl();__out("@Deprecated");
}
__dl();
}
__ln();
__out("public final ");
$___.type.typeImmutable().relative();
__out(" ");
$___.v.names.with();
__out("(");
$___.v.atNullability();
$___.v.getUnwrappedElementType();
__out("... elements) ").ln();
__out(" ");
__dl();
if ($if(v.isNullable())) {
  __dl();__ln();
  __out("  if (elements == null) {").ln();
  __out("  ");
  {final org.immutables.value.processor.meta.ValueType type_generateReturnCopy_879511243 = $cast(type);
   final org.immutables.value.processor.meta.ValueAttribute modified_generateReturnCopy_879511243 = $cast(v);
   final java.lang.String expression_generateReturnCopy_879511243 = $cast("null");
   $(__, generateReturnCopyRaw, type_generateReturnCopy_879511243, modified_generateReturnCopy_879511243, name(), expression_generateReturnCopy_879511243);
  }
  __ln();
  __out("  }").ln();
  __out(" ");
}
__dl();__ln();
__out(" ");
__dl();
if ($if($v.isGenerateJdkOnly(), and, v.isPrimitiveElement())) {
  __dl();__ln();
  __out(" java.util.ArrayList<");
  $(__, v.getWrappedElementType());
  __out(" wrappedList = new java.util.ArrayList<");
  $(__, asDiamond, v.getWrappedElementType());
  __out("(elements.length);").ln();
  __out("  for (");
  $(__, v.getUnwrappedElementType());
  __out(" element : elements) ");ln();
  __out("  wrappedList.add(element);").ln();
  __out("  }").ln();
  __out(" ");
  $(__, immutableImplementationType, v);
  __out(" newValue = ");
  $(__, immutableCollectionCopyOfSafe, v, $$false, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
  __dl();__out("wrappedList");
  __dl();
})
});
  __out(";").ln();
  __out(" ");
}
else {
  __dl();__ln();
  __out(" ");
  $(__, v.atNullabilityLocal());
public final

/**
 * Copy the current immutable object with elements that replace the content of 
 * A shallow reference equality check is used to prevent copying of the same value by returning
 * @param elements An iterable of 
 * @return A modified copy of {@code this} object
 */

if ($if(a_deprecation_286924011.deprecated)) {
    __dl();__out("@Deprecated");
}

{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
$___.generateReturnCopyContextual(type, v);
__ln();
__out("} ").ln();
__ln();
__out("/**").ln();
__out(" * Copy the current immutable object with elements that replace the content of ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

}___.out(".").ln();
__out(" * A shallow reference equality check is used to prevent copying of the same value by returning
{@code this this}).ln();
__out(" * @param elements An iterable of ");
$___.v.name());
__out(" elements to set").ln();
__out(" * @return A modified copy of {@code this} object").ln();
__out(" */").ln();
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
    __dl();__out("@Deprecated");
}
__dl();
__ln();
__out("public final ");
```java
$g(view, type.typeImmutable().relative());
__out("  ");
$g(view, v.names.with);
__out("  ");
$g(view, v.atNonNullability());
__out("Iterable <");
$g(view, v.getType().getConsumedElementType());
__out("> elements ").ln();
__out("  if (this.");
$g(view, v.name());
__out(" == elements) return this;").ln();
__out("  ");
$g(view, v.atNonNullabilityLocal());
$g(view, immutableImplementationType, v);
__out(" newValue = ");
__dl();
if ($if(v.isNullable())) {
  __dl();__out("elements == null ? null :");
}
__dl();[final org.immutables.value.processor.meta.ValueAttribute a_immutableCollectionCopyOf_975579906
  = $cast(v);
  final java.lang.String expression_immutableCollectionCopyOf_975579906 = $cast("elements");
  $g(view, immutableCollectionCopyOfSafe, a_immutableCollectionCopyOf_975579906, $$true,
    expression_immutableCollectionCopyOf_975579906);
}__dl();
else if ($if(v.isOptionalType())) {
  __dl();__out("elements == null ? null :");
}
__dl();__out(";").ln();
__out("  ");
$g(view, generateReturnCopyContextual, type, v);
__ln();
__out(" */*").ln();
__out("  ");
} else if ($if(v.isOptionalAcceptNullable())) {
  __dl();__ln();
  __ln();
  __out(" * Copy the current immutable object by setting a <i>present</i> value for the optional ");
  [final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
    $g(view, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out("  ");
__out(" attribute.").ln();
__out(" * @param value The value for ");
$g(view, v.name());
__dl();
if ($if(v.isOptionalAcceptNullable())) {
  __dl();__out("  ");
```
if ($if(a_optionalEmpty_1867206284.isJdkOptional())) {
	__.dl();__.out("empty");
} else if ($if($(a_optionalEmpty_1867206284.isFugueOptional(), or,
a_optionalEmpty_1867206284.isJavaslangOptional()))) {
	__.dl();__.out("none");
} else {
	__.dl();__.out("absent");
}

__.dl();__.out("()");

__.out(""");

__.dl();__.ln();
__.out("* @return A modified copy of [ @code this ] object").ln();
__.out("*/").ln();

if ($(a_deprecation_286924011.deprecated)) {
	__.dl();__.out(@Deprecated");
}

__.ln();
__.out("public final ");
$.atNullable, a_unwrappedOptionalType_1615308684)
$.getWrappedElementType();

} else {
	__.dl();$.a_unwrappedOptionalType_1615308684.getUnwrappedElementType();

}
if ($if(v.isJdkOptional())) {
  __dl();__ln();
  __out(" ");
  __dl();
  if ($if($(v.isPrimitiveElement(), or, $(v.isJdkSpecializedOptional(), or, v.isOptionalAcceptNullable()))) {
    __dl();__ln();
    __out(" ");
    __dl();
    $(__, immutableImplementationType, v);
    __out(" newValue = value;").ln();
    __out(" ");
  } else {
    __dl();__ln();
    __out(" ");
    $(__, immutableImplementationType, v);
    __out(" newValue = ");
    final org.immutables.value.processor.meta.ValueAttribute v_maybeCopyOf_1779456614 = $cast(v);
    final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = new org.immutables.generator.Templates.Invokable(expression_maybeCopyOf_1779456614 = new org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = this;
      }
    }));__dl();__dl();
    if ($if(v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf)) {
      __dl();__out("immutableCopyOf(");
      $(__, expression_maybeCopyOf_1779456614);
      __out(" ");
    } else {
      __dl();$__out("expression_maybeCopyOf_1779456614");
    }
  }
} else {
  __dl();$(__, expression_maybeCopyOf_1779456614);
}

__dl();__ln();
__out(" ");
__dl();__ln();
__out(" ");
__dl();

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if ($if($(v.hasSimpleScalarElementType(), andnot, v.isEnumType()))) {
  $.dl();$.ln();
  $.out("  if (");
  $.(___ objectsEqual, type);
  $.out("(this.");
  $.(___ v.name());
  $.out("= newValue) return this;").ln();
  $.out("  ");
} else {
  $.dl();$.ln();
  $.out("  if (this.");
  $.(___ v.name());
  $.out(" == newValue) return this;").ln();
  $.out("  ");
}
$.dl();$.ln();
$.out("  ");
$.(___ generateReturnCopyContextual, type, v);
$.ln();
)
} else {
  $.dl();$.ln();
  $.out("  ");
  $.(___ immutableImplementationType, v);
  $.out(" new Value = ");
  {final org.immutables.value.processor.meta.ValueAttribute a_optionalOf_332927268 = $cast(v);
   $.(___ a_optionalOf_332927268.getRawType());
   $.dl();
   if ($if($not, a_optionalOf_332927268.isOptionalAcceptNullable())) {
     $.dl();$.dl();
     if ($if(a_optionalOf_332927268.isFugueOptional(), or, a_optionalOf_332927268.isJavaslangOptional()))
     {
       $.dl();$.out("some");
     } else {
       $.dl();$.out("of");
     }
   } else if ($if(a_optionalOf_332927268.isJdkOptional()))
   {
     $.dl();$.out("ofNullable");
   } else if ($if(a_optionalOf_332927268.isFugueOptional()))
   {
     $.dl();$.out("option");
   } else if ($if(a_optionalOf_332927268.isJavaslangOptional()))
   {
     $.dl();
   } else if ($if(a_optionalOf_332927268.isJdkOptional()))
   {
     $.dl();$.out("ofNullable");
   } else if ($if(a_optionalOf_332927268.isFugueOptional()))
   {
     $.dl();$.out("option");
   } else if ($if(a_optionalOf_332927268.isJavaslangOptional()))
   {
@Override public void run(org.immutables.generator.Templates.Invocation __) { 
__dl();final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = this;
__dl();
    } };__dl();
if ($if(v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf)) {
__dl();__out("immutableCopyOf("");$(__, expression_maybeCopyOf_1779456614);
__out(")");
} else {
__dl();$(__, expression_maybeCopyOf_1779456614);
}
__dl();
__out(";").ln();
__out(" ");
__dl();
if ($if(v.hasSimpleScalarElementType(), andnot, v.isEnumType())) {
__dl();__ln();
__out(" ");
__dl();
if ($if(type.isGeneratePrivateNoargConstructor())) {
__dl();__ln();
__out(" if (");
$___.objectsEqual, type);
__out("(this.");
$___.v.name());
__out(" new Value) return this;");ln();
__out(" ");
} else {
__dl();__ln();
__out(" if (this.");
$___.v.name());
}
...
## Generated Code

```java
/**
 * Copy the current immutable object by setting an optional value for the "attribute".
 */
$(__, suppressCovariantCastForOptional, v);

if ($if(a_deprecation_286924011.deprecated)) {
    __dl();__ln();
    __out(”@Deprecated”);ln();
} else {
    if ($if(v.isJdkOptional())) {
        __dl();__ln();
        __out("* A shallow reference equality check is used on unboxed optional value to prevent copying of the same value by returning @code this.",").ln();
    } else if ($if(v.hasSimpleScalarElementType())) {
        __dl();__ln();
        __out("* An equality check is used to prevent copying of the same value by returning @code this.",").ln();
    } else {
        __dl();__ln();
        __out("* A shallow reference equality check on the optional value is used to prevent copying of the same value by returning @code this.",").ln();
    }
}

__dl();__ln();
__out("* @param optional A value for ");
$__ v.name());
__ln();
__out("* @return A modified copy of @code this object");ln();
__out("*" */").ln();
$__ suppressCovariantCastForOptional, v);
__ln();
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if (Sif(a_deprecation_286924011.deprecated)) {
    __dl();__out("@Deprecation");
}
__dl();
}
```
Open Source Used In kASA v1.5 10668
if ($if(v.hasSimpleScalarElementType())) {
  __.dl();__.ln();
  __.out("  ");
  __.dl();
  if ($if(type.isGeneratePrivateNoargConstructor())) {
    __.dl();__.ln();
    __.out("    ");
    __.dl();
    if ($if($(__, objectsEqual, type));
        __.out("(this.");
        $(__, v.name());
        __.out(".equals(value)) return this;"));
    __.dl();
  } else {
    __.dl();__.ln();
    __.out("    ");
    __.dl();
  }
} else {
  __.dl();__.ln();
  __.out("  ");
} else {
  __.dl();__.ln();
  __.out("  ");
  __.dl();
}

{final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
  __.dl();
  if ($if($($a_optionalPresent_767352996.isFugueOptional(), or,
                 a_optionalPresent_767352996.isJavaslangOptional()))) {
    __.dl();__.out("isDefined");
  } else {
    __.dl();__.out("isPresent");
  }
  __.dl();__.out("()");
}

__out(" & & !value.");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
  __.dl();
  if ($if($($a_optionalPresent_767352996.isFugueOptional(), or,
                 a_optionalPresent_767352996.isJavaslangOptional()))) {
    __.dl();__.out("isDefined");
  } else {
    __.dl();__.out("isPresent");
  }
  __.dl();__.out("()");
}
} else {
    __.dl();__.out("isPresent");
}

}___.dl();__.out("()");

}___.out(") return this;").ln();
___.out(" if (this.");$
$_(v.name());
___.out(";");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
___.dl();
if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
a_optionalPresent_767352996.isJavaslangOptional()))) {
    __.dl();__.out("isDefined");
}

} else {
    __.dl();__.out("isPresent");
}

}___.dl();__.out("()");

}___.out(" && value.");$
{final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
___.dl();
if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
a_optionalPresent_767352996.isJavaslangOptional()))) {
    __.dl();__.out("isDefined");
}

} else {
    __.dl();__.out("isPresent");
}

}___.dl();__.out("()");

}___.out(" && this.");$
{final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
___.dl();
if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
a_optionalPresent_767352996.isJavaslangOptional()))) {
    __.dl();__.out("isDefined");
}

} else {
    __.dl();__.out("isPresent");
}

}___.dl();__.out("()");

}___.out(" && this.");$
{final org.immutables.value.processor.meta.ValueAttribute a_optionalGet_1683307643 = $cast(v);
___.dl();
if ($if(a_optionalGet_1683307643.isJdkSpecializedOptional())) {
    __.dl();__.out("getAs");$
        toUpper, aOptionalGet_1683307643.getElementType());
} else {__dl();__out("get");

}
__dl();__out("()");

__out(" == value.");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalGet_1683307643 = $cast(v);
__dl();
if ($if(a_optionalGet_1683307643.isJdkSpecializedOptional())) {
__dl();__out("getAs");
$_(_, toUpper, a_optionalGet_1683307643.getElementType());
} else {
__dl();__out("get");
}
__dl();__out("()");

__out(") return this;".ln();
__out(" ");

} else if ($if(v.isMapType())) {
final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
final java.lang.String gE = $cast(v.getConsumedElementType());
final java.lang.String uK = $cast(v.getUnwrappedElementType());
final java.lang.String wK = $cast(v.getWrappedElementType());

} else if ($if(v.isMapType())) {
__dl();__out(" ");

}
final java.lang.String uV = $cast(v.getUnwrappedSecondaryElementType());
final java.lang.String wV = $cast(v.getWrappedSecondaryElementType());
__dl();__ln();
__ln();
__out("/**").ln();
__out(" * Copy the current immutable object by replacing the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" map with the specified map.").ln();
__out(" * Nulls are not permitted as keys or values.").ln();
__out(" * A shallow reference equality check is used to prevent copying of the same value by returning
[@code this].").ln();
__out(" * @param entries The entries to be added to the ");
$___.v.name();
__out(" map").ln();
__out(" * @return A modified copy of {@code this} object").ln();
__out(" */").ln();
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
__dl();__out("@Deprecated");
}
__dl();
__ln();
__out("public final ");
$___.type.typeImmutable().relative());
__out(" ");
$___.v.names.with;
__out("(");
$___.v.atNullability();
__dl();
if ($if(v.isMultimapType())) {
__dl();$(___.guava);
__out(".collect.Multimap");
} else {
__dl();__out("java.util.Map");
}
__dl();__out("<");
$___.gE;
__out(" , ? extends ");
$___.wV;
__out("> entries) ").ln();
if (this.
  if (this.
    if (this.
      if (this.
        if (this.
          if (this.
            if (this.
              if (this.
                if (this.
                  if (this.
                    if (this.
                      if (this.
            } else if ($if($(v.isPrimitive(), or, v.isEnumType()))) {
              __dl();__ln();
              __out(" */*").ln();
              __out(" * Copy the current immutable object by setting a value for the ");
            } else if ($if($(v.hasSimpleScalarElementType(), or, v.isSuppressedOptional))) {
              __dl();__ln();
              __out(" * An equals check used to prevent copying of the same value by returning [@code this].").ln();
            } else {
            }
          } else if ($if($(v.isPrimitive(), or, v.isEnumType()))) {
            __dl();__ln();
            __out(" * A value equality check is used to prevent copying of the same value by returning [@code this].").ln();
          } else if ($if($(v.hasSimpleScalarElementType(), or, v.isSuppressedOptional))) {
            __dl();__ln();
            __out(" * An equals check used to prevent copying of the same value by returning [@code this].").ln();
          } else {
          }
        } else if ($if($(v.isPrimitive(), and, v.isFloatType()))) {
          __dl();__ln();
          __out(" * A value strict bits equality used to prevent copying of the same value by returning [@code this].").ln();
        } else {
        }
      } else {
      } else {
      } else {
      } else {
      } else {
    } else if (v.isPrimitive()) {
    } else if (v.isEnumType()) {
    } else if (v.hasSimpleScalarElementType()) {
    } else if (v.isSuppressedOptional) {
    } else {
    }
  } else {
  } else {
  } else {
  } else {
  }
}
A shallow reference equality check is used to prevent copying of the same value by returning

```java
public final ...
...
```

A new value for

```java
public final ...
...
```

A modified copy of the object

```java
public final ...
...
```

A shallow reference equality check is used to prevent copying of the same value by returning

```java
public final ...
```
} else if ($if($(v.isPrimitive(), or, v.isEnumType()))) {
    __.dl();__.ln();
    __.out("  if (this.");
    $(__, v.name());
    __.out(" == value) return this;"),ln();
    __.out(" ");
} else if ($if($(v.hasSimpleScalarElementType(), or, v.isSuppressedOptional))) {
    __.dl();__.ln();
    __.out("    ");
    __.dl();__.ln();
    __.out("    ");
} else {
    __.dl();__.ln();
    __.out("    ");
    __.dl();
    if ($if($(v.attributeValueType, and, v.typeKind().isRegular()))) {
        __.dl();__.ln();
        __.out("      ");
        __.dl();
        if ($if(v.isAttributeBuilder())) {
            __.dl();__.ln();
            __.out("  ");
            $(__, v.atNullabilityLocal());
            $(__, immutableImplementationType, v);
            __.out(" newValue = ");
            {final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_valueToBuilder_1442539515 = $cast(v.getAttributeBuilderDescriptor());
            final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = new org.immutables.generator.Templates.Fragment(0) {
                @Override public void run(org.immutables.generator.Templates.Invokation __) {
                __.dl();final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = this;
                __.out("value");
                __.dl();
            });__.dl();__.dl();
            if ($if(n_valueToBuilder_1442539515.isCopyMethodOnValueInstance()) {
                __.dl();$(__, expression_valueToBuilder_1442539515);
                __.out(".");
            }$(__, n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
            __.out("()");
} else {
   __dl();__$(__, n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
   __out(""");
   $(__, expression_valueToBuilder_1442539515);
   __out("")
;

} __dl();
}
__out(",");
$(__, v.getAttributeBuilderDescriptor().getBuildMethod());
__out(""");_ln();
__out(" ");

} else {
   __dl();_ln();
   __out(" ");
   $(__, v.getAttributeBuilderDescriptor().getBuildMethod());
   __out(""");_ln();
   __out(" ");

} __dl();_ln();
__out(" ");
$(__, generateReturnCopyContextual, type, v);
_\_ln();
__out(" ");
} else if ($if(v.isPrimitive())) {
   __dl();_ln();
   __out(" ");
   {final org.immutables.value.processor.meta.ValueType type\_generateReturnCopy\_879511243 = $cast(type);
    final org.immutables.value.processor.meta.ValueAttribute modified\_generateReturnCopy\_879511243 =
    $cast(v);
    final java.lang.String expression\_generateReturnCopy\_879511243 = $cast("value");
    $(__, generateReturnCopy\_raw, type\_generateReturnCopy\_879511243, modified\_generateReturnCopy\_879511243.name(), expression\_generateReturnCopy\_879511243);
   }
   __ln();
   __out(" ");
   } else if ($if(v.isNullable())) {
   __dl();_ln();
   __out(" ");
   {final org.immutables.value.processor.meta.ValueType type\_generateReturnCopy\_879511243 = $cast(type);
    final org.immutables.value.processor.meta.ValueAttribute modified\_generateReturnCopy\_879511243 =
    $cast(v);
    final java.lang.String expression\_generateReturnCopy\_879511243 = $cast("value");
    $(__, generateReturnCopy\_raw, type\_generateReturnCopy\_879511243, modified\_generateReturnCopy\_879511243.name(), expression\_generateReturnCopy\_879511243);
   }
   __ln();
   __out(" ");
   } else if ($if(v.isNull()) {
   __dl();_ln();
   __out(" ");
   __d{};
if ($if($v.hasSimpleScalarElementType(), or, $v.isSuppressedOptional)) {
    __.dl();__.ln();
    __.out("    ");
    __.dl();__.ln();
    __.out("      ");
    __.dl();
    if ($if($v.isNullable(), or, $type.isGeneratePrivateNoargConstructor())) {
        __.dl();__.ln();
        __.out("      ");
        if ($(__, objectsEqual, $type)) {
            __.out("    if (this.");
            __.out($(__, v.name()));
            __.out("value)) return this;").ln();
        } else {
            __.dl();__.ln();
            __.out("      ");
            __.out("    if (this.");
            __.out($(__, v.name()));
            __.out("equals(value)) return this;").ln();
        }
    } else {
        __.dl();__.ln();
        __.out("    ");
    }
}

___.dl();__.ln();
_.out("  ");

if ($if($v.isNullable(), or, $type.isGeneratePrivateNoargConstructor())) {
    final org.immutables.value.processor.meta.ValueType $type_generateReturnCopy_879511243 = $cast($type);
    final org.immutables.value.processor.meta.ValueAttribute $modified_generateReturnCopy_879511243 = $cast($v);
    final java.lang.String $expression_generateReturnCopy_879511243 = $cast("value");
    $(__, generateReturnCopyRaw, $type_generateReturnCopy_879511243, $modified_generateReturnCopy_879511243.name(), $expression_generateReturnCopy_879511243.name());
    ___.ln();
    __.out("    ");
}

else {
    __.dl();__.ln();
    __.out("    ");
    $(__, v.atNullabilityLocal());
    $(__, immutableImplementationType, $v);
    __.out("    newValue = ");
    $(__, valueFromValue, $v, "value");
    __.out("    ").ln();
}
if ($if($(v.hasSimpleScalarElementType(), or, v.isSuppressedOptional))) {
    __dl();__ln();
    __out("    ");
    __dl();__ln();
    __out("    ");
    __dl();
    if ($if($(v.isNullable(), or, type.isGeneratePrivateNoargConstructor()))) {
        __dl();__ln();
        __out("      ");
        __dl();
        if ($__)($__.objectsEqual, type);__out("(this.");
        $__.v.name();__out(".equals(newValue)) return this;");__ln();
        __out("    ");
    } else {
        __dl();__ln();
        if ($__)($__.v.name());__out(".equals(newValue)) return this;");__ln();
        __out("    ");
    }
}
__dl();__ln();
__out("    ");

$(__, generateReturnCopyContextual, type, v);
__ln();
__out("    ");

__dl();__ln();
__out("   ");

__dl();__ln();
__out("   ");

__dl();__ln();
__out("   ");

__dl();__ln();
__out("   ");

__dl();__ln();
__out("   ");

__dl();__ln();
__out("   ");

__dl();__ln();
__out("   ");

__dl();__ln();
__out("   ");
__dl();__it1.index++;__it1.first = false;
}}
__dl();__ln();
org.immutables.generator.Templates.Invokable defaultAnnotationValues() { return defaultAnnotationValues; }
private final org.immutables.generator.Templates.Invokable defaultAnnotationValues = new FragmentDispatch(1, 54);

void _t54__defaultAnnotationValues(org.immutables.generator.Templates.Invokation __) {
   __dl();__ln();
   __dl();
   org.immutables.value.processor.meta.ValueType type = __cast(__param(0));
   __ln();
   {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    final java.util.List<org.immutables.value.processor.meta.ValueAttribute> defaults = __cast(type.getDefaultAttributes());
    __dl();__ln();
    if ($if(defaults)) {
     __dl();__ln();
     {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
      for (final org.immutables.value.processor.meta.ValueAttribute a : $in(defaults)) {
       __dl();__ln();
       __out("private static final ");
       $(__, a.getType());
       __out(" DEFAULT_VALUE_ ");
       $(__, toConstant, a.name());
       __out(";").ln();
       __dl();_it2.index++;
       _it2.first = false;
     }
    }
    __dl();__ln();
    __ln();
    __out("static ");.ln();
    __out(" try ");.ln();
    __out(" ");
    {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
     for (final org.immutables.value.processor.meta.ValueAttribute a : $in(defaults)) {
      __dl();__ln();
      __out(" DEFAULT_VALUE_ ");
      $(__, toConstant, a.name());
      __out(" =").ln();
      __out(" cast(");
      $(__, type.typeAbstract().relative());
      __out(" class.getDeclaredMethod(");
      $(__, a.name());
      __out(" ");.getDefaultValue();").ln();
      __out(" ");
      __dl();_it2.index++;
      _it2.first = false;
org.immutables.generator.Templates.Invokable forwardingEnclosingFactoryMethods() { return forwardingEnclosingFactoryMethods; }
private final org.immutables.generator.Templates.Invokable forwardingEnclosingFactoryMethods = new FragmentDispatch(1, 55);
void _t55__forwardingEnclosingFactoryMethods(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __.out("  ");
  __.ln();
  if ($if(type.constitution.isImplementationHidden())) {
    __.dl(); __.ln();
    __.out("    ");
    __.ln();
    __.out("/**");
    __.ln();
    __.out(" * Returns a default immutable singleton value of ");
    __.ln();
    __.out("public static");
  }
  __.dl(); __.ln();
  __.out(" */");
  __.ln();
  if ($if(type.isUseSingleton())) {
    __.dl(); __.ln();
    __.out("/**");
    __.ln();
    __.out(" */");
    __.ln();
    __.out(" * @return An immutable instance of ");
    __.ln();
    __.out(" */");
    __.ln();
  }
}
```java
$(___.type.generics().def());
  __.out(" ");
$(___.type.typeValue().relative());
  __.out(" ");
$(___.type.factoryInstance().simple());
  __.out("() { ").ln();
  __.out(" return ");
$(___.type.typeImmutable().relative());
  __.out(".");
$(___.type.names().instance);
  __.out(";").ln();
  __.ln();
}
___.dl();

if (type.isUseConstructor()) {
  __.dl();
  __.ln();
  __.out(" ");
  __.dl();
  if (type.requiresAlternativeStrictConstructor()) {
    __.dl();
    __.ln();
    __.ln();
    __.out("/** ").ln();
    __.out(" * Construct a new immutable { @code ");
    $(___.type.name());
    __.out(" } instance.").ln();
    $(___.javadocGenerics, type);
    __.ln();
    final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : type.getConstructorArguments()) {
      __.dl();
      __.ln();
      __.ln();
      __.out(" /* @param ");
      $(___.v.name());
      __.out(" The value for the { @code ");
      $(___.v.name());
      __.out(" } attribute");
      __.dl();
      if (v.isNullable()) {
        __.dl();
        __.out(" can be { @code null} ");
      }
    }
    __.dl();
    __.ln();
    __.dl();
    _it1.index++;
    _it1.first = false;
  }
}
```
public static
$__
$.out("public static");
$__
$.def();
$__
$.simple();
$__
$.simple();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : Sin(type.getConstructorArguments())) {
  __dl();
  if ($(not, _it1.first)) {
    __dl();
    __out(",
  }
  __dl();
  __dl();
  $(__, v.getConstructorParameterAnnotations());
  $__
  $.isNullability();
  $__
  $.getType();
  ___
  _it1.index++;
  _it1.first = false;
}
__dl();
__out("").ln();
__out(" return ");
$__
$.simple();
__out("/");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : Sin(type.getConstructorArguments())) {
  __dl();
  if ($(not, _it1.first)) {
    __dl();
    __out(",
  }
  __dl();
  if (v.requiresAlternativeStrictConstructor()) {
    __dl();
    "$;
    __out("/");
    S(__, constructorAcceptType, v);
    __out(""");
}
Final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
  __dl();__ln();
  __out("  * @param ");
  __out(" The value for the ");
  __out(" attribute");
  __dl();
  if ($if(v.isNullable())) {
    __dl();__out(" , can be ");
  }
}

__dl();__ln();
__dl();__ln();
__out(" */");
__out(" * Construct a new immutable ");
__out(" instance.");
$(__, javadocGenerics, type);
__ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
  __dl();__ln();
  __out(" * @param ");
  __out(" The value for the ");
  __out(" attribute");
  __dl();
  if ($if(v.isNullable())) {
    __dl();__out(" , can be ");
  }
}

__dl();__ln();
__dl();__ln();
__out(" */");
__out(" * Return An immutable ");
__out(" instance");
__out(" */");
$(__, eachLine, type.getConstructorAnnotations());
__ln();
$(__, eachLine, type.constructorInjectedAnnotations());
__ln();
__out("public static");
$(__, type.generics().def());
__out(" ");
$(__, type.typeValue().relative());
org.immutables.generator.Templates.Invokable javadocBuilderExample() { return javadocBuilderExample; }
private final org.immutables.generator.Templates.Invokable javadocBuilderExample = new FragmentDispatch(1, 56);
void _t56__javadocBuilderExample(org.immutables.generator.Templates.Invocation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  __out(" * <pre>").ln();
  __out(" * ");
  $(__, docEscaped, type.factoryBuilder().relative());
  __out("()").ln();
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
     __dl();__ln();
     __out(" ");
     __dl();
     if ($if(v.isEncoding())) {
       __dl();__ln();
       __out(" * .");
       $(__, rr.builderCopyFrom(), v);
       __out("()");
       $(__, docEscaped, v.getType());
       __out(" // ");
     } else if ($if(v.isNullable())) {
       __dl();__ln();
       __out(" * .");
       $(__, v.names.init);
       __out("()");
       $(__, docEscaped, v.getType());
       __out(" | null) // nullable ");
     } else if ($if(v.isCollectionType())) {
       __dl();__ln();
       __out(" * .");
       $(__, v.names.add());
       __out("|");
       $(__, v.names.addAll());
    }
  }
}
$___.out(" elements").ln();
___.out(" ");
} else if ($if(v.isMapType())) {
___.dl();___.ln();
___.out(" * ");
$___.v.names.put();
___.out("[");
$___.v.names.putAll();
___.out(""");
$___.docEscaped, v.getUnwrappedElementReturnType();
___.out(" =&gt; ");
$___.docEscaped, v.getUnwrappedSecondaryElementType();
___.out(" ");
} else {
___.dl();___.ln();
___.out(" * ");
$___.v.names.init();
___.out(""");
$___.docEscaped, v.getElementReturnType();
___.out(" ");
___.dl();
if ($if(v.isMandatory())) {
___.dl();___.out("required");
} else {
___.dl();___.out("optional");
}
___.dl();___.out(" ");
}
org.immutables.generator.Templates.Invokable immutableImplementationType() { return immutableImplementationType; }  
private final org.immutables.generator.Templates.Invokable immutableImplementationType = new 
FragmentDispatch(1, 57);  
void _t57__immutableImplementationType(org.immutables.generator.Templates.Invokation __) { 
  __dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0)); 
  $(__, output.trim, new org.immutables.generator.Templates.Fragment(0) { 
    @Override public void run(org.immutables.generator.Templates.Invokation __) { 
      __dl();__ln();  
      if ($if(v.isEncoding())) { 
        __dl();__ln();  
        __out("  ");  
        $(__, rr.implType(), v);  
        __ln();  
      } else if ($if(v.isJdkOptional())) { 
        __dl();__dl();__ln();  
        __out("  ");  
        $(__, atNullable, v);  
        __(v.getWrappedElementType());  
        __ln();  
      } else if ($if(v.isCustomCollectionType())) { 
        __dl();__ln();  
        __out("  ");  
        $(v.implementationType());  
        __ln();  
      } else if ($if($(v.isGenerateOrdinalValueSet(), andnot, v.isGenerateJdkOnly())) { 
        __dl();__ln();  
        __out("  ");  
        org.immutables.ordinal.ImmutableOrdinalSet  
        $(__, v.getGenericArgs());  
        __ln();  
      } else if ($if($(v.isGenerateSortedSet(), andnot, v.isGenerateJdkOnly())) { 
        __dl();__ln();  
        __out("  ");  
        org.immutables.immutable.OrdableImmutableOrderedSet  
        $(__, $(v.getGenericArgs()));  
        __ln();  
      } else if ($if($(v.isGenerateSortedSet(), andnot, v.isGenerateJdkOnly())) { 
        __dl();__ln();  
        __out("  ");  
        org.immutables.immutable.OrdableImmutableOrderedSet  
        $(__, $(v.getGenericArgs()));  
        __ln();  
      } else if ($if($(v.isGenerateSortedSet(), andnot, v.isGenerateJdkOnly())) { 
        __dl();__ln();  
        __out("  ");  
        org.immutables.immutable.OrdableImmutableOrderedSet  
        $(__, $(v.getGenericArgs()));  
        __ln();  
      } else if ($if($(v.isGenerateSortedSet(), andnot, v.isGenerateJdkOnly())) { 
        __dl();__ln();  
        __out("  ");  
        org.immutables.immutable.OrdableImmutableOrderedSet  
        $(__, $(v.getGenericArgs()));  
        __ln();  
      } else if ($if($(v.isGenerateSortedSet(), andnot, v.isGenerateJdkOnly())) { 
        __dl();__ln();  
        __out("  ");  
        org.immutables.immutable.OrdableImmutableOrderedSet  
        $(__, $(v.getGenericArgs()));  
        __ln();  
      } else if ($if($(v.isGenerateSortedSet(), andnot, v.isGenerateJdkOnly())) { 
        __dl();__ln();  
        __out("  ");  
        org.immutables.immutable.OrdableImmutableOrderedSet  
        $(__, $(v.getGenericArgs()));  
        __ln();  
      } else if ($if($(v.isGenerateSortedSet(), andnot, v.isGenerateJdkOnly())) { 
        __dl();__ln();  
        __out("  ");  
        org.immutables.immutable.OrdableImmutableOrderedSet  
        $(__, $(v.getGenericArgs()));  
        __ln();  
    });  
  });  
});  
}}
$(__, guava);
__out(".collect.ImmutableSortedSet");
$___.v.getGenericArgs();
__.ln();
} else if ($if($(v.isCollectionType(), andnot, v.isGenerateJdkOnly())) { 
___.dl();__.ln();
___.out(" ");
$___.guava;
___.out(".collect.Immutable");
$___.v.getRawCollectionType();
___.out(".");
___.v.getGenericArgs();
__.ln();
} else if ($if($(v.isGenerateSortedMap(), andnot, v.isGenerateJdkOnly())) { 
___.dl();__.ln();
___.out(" ");
$___.guava;
___.out(".collect.ImmutableSortedMap");
$___.v.getGenericArgs();
__.ln();
} else if ($if($(v.isMapType(), andnot, v.isGenerateJdkOnly())) { 
___.dl();__.ln();
___.out(" ");
$___.guava;
___.out(".collect.Immutable");
$___.v.getRawMapType();
___.v.getGenericArgs();
__.ln();
} else {
___.dl();__.ln();
___.out(" ");
$___.v.implementationType();
__.ln();
}

___.dl();__.ln();
___.dl();
})
___.dl();

org.immutables.generator.Templates.Invokable immutableCollectionBuild() { return immutableCollectionBuild; }
private final org.immutables.generator.Templates.Invokable immutableCollectionBuild = new FragmentDispatch(2, 58);
void _t58__immutableCollectionBuild(org.immutables.generator.Templates.Invokation __) {
___.dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(___.param(0));
final java.lang.String expression = ___.param(1).toString();
$___.output.trim, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
  __dl();__ln();
  __dl();
  if ($if(a.isGenerateJdkOnly())) {
    __dl();__ln();
    __out(" ");
    __dl();
    if ($if(a.isGenerateSortedSet())) {
      __dl();__ln();
      __out(" createUnmodifiableSortedSet(");
      $(__, a.hasReverseOrder());
      __out("), createSafeList(");
      $(__, expression);
      __out("), false, false")).ln();
      __out(" ");
    } else if ($if(a.isGenerateEnumSet())) {
      __dl();__ln();
      __out(" createUnmodifiableEnumSet(");
      $(__, expression);
      __out(")").ln();
      __out(" ");
    } else if ($if(a.isGenerateOrdinalValueSet())) {
      __dl();__ln();
      __out(" ");
      $(__, output.error, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          __dl();__out("Not implemented generate OrdinalValue set for JDK only");
          __dl();
        } });
      __ln();
      __out(" ");
    } else if ($if(a.isListType())) {
      __dl();__ln();
      __out(" ");
      if ($if(a.isAttributeBuilder())) {
        __dl();$(__, convertToValueType, a.getAttributeBuilderDescriptor());
        __out(" ");
        $(__, expression);
        __out(" ");
      } else {
        __dl();$(__, expression);
      }
      __dl();__out(" ").ln();
      __out(" ");
    } else if ($if(a.isSetType())) {
      __dl();
    }}
  }
}
__.dl();__.ln();
__.out(" createUnmodifiableSet(");
$(__, expression);
__.out(" ");
} else if ($if(a.isGenerateEnumMap())) {
  __.dl();__.ln();
  __.out(" createUnmodifiableEnumMap(false, false, ");
  $(__, expression);
  __.out(" ");
} else if ($if(a.isGenerateSortedMap())) {
  __.dl();__.ln();
  __.out(" createUnmodifiableSortedMap(");
  $(__, a.hasReverseOrder());
  __.out(" , false, false, ");
  $(__, expression);
  __.out(" ");
} else if ($if(a.isMapType())) {
  __.dl();__.ln();
  __.out(" createUnmodifiableMap(false, false, ");
  $(__, expression);
  __.out(" ");
}

} else {
  __.dl();__.ln();
  __.out(" ");
  __.dl();
  if ($if($(a.isGenerateOrdinalValueSet(), or, $(a.isGenerateEnumSet(), or, a.isGenerateEnumMap())))) {
    __.dl();__.ln();
    __.out(" ");
    $(__, immutableCollectionCopyOf, a, new org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();$___.expression);
        __.out(" .build()");___.dl();
      });
    __.ln();
    __.out(" ");
  } else {
    __.dl();__.ln();
    __.out(" ");
  }
}
if ($if(a.isAttributeBuilder())) {
  __.dl();__$_.guava);
  __.out(".collect.ImmutableList.copyOf()");
  $(___.convertToValueType, a.getAttributeBuilderDescriptor());
  __.out("(");
  $(___.expression);
  __.out(").build()");
} else {
  __.dl();__$_.expression);
  __.out(").build()");
}

org.immutables.generator.Templates.Invokable immutableCollectionCopyOf() { return immutableCollectionCopyOf; }
private final org.immutables.generator.Templates.Invokable immutableCollectionCopyOf = new FragmentDispatch(2, 59);
void _t59__immutableCollectionCopyOf(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  final java.lang.String expression = __.param(1).toString();
  $(___.immutableCollectionCopyOfSafe, a, $true, expression);
  __.dl();
}

org.immutables.generator.Templates.Invokable immutableCollectionCopyOfSafe() { return immutableCollectionCopyOfSafe; }
private final org.immutables.generator.Templates.Invokable immutableCollectionCopyOfSafe = new FragmentDispatch(3, 60);
void _t60__immutableCollectionCopyOfSafe(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  final java.lang.Boolean safe = $if(__.param(1));
  final java.lang.String expression = __.param(2).toString();
  $(___.output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
if ($if(a.isGenerateJdkOnly())) {
  final org.immutables.generator.Templates.Invokable safeList = new
  org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      final org.immutables.generator.Templates.Invokable safeList = this;
      if ($if(safe)) {
        __out("createSafeList(");
        $(__, expression);
        __out(" , ");
        $(__, a.nullElements.ban());
        __out(" , ");
        $(__, a.nullElements.skip());
        __out(")");
      } else {
        __out(__, expression);
      }
    }
    __dl();
  }
}

if ($if(a.isGenerateSortedSet())) {
  __out("createUnmodifiableSortedSet(");
  __out(__, a.hasReverseOrder());
  __out(" , ");
  __out(")");
} else if ($if(a.isGenerateEnumSet())) {
  __out("createUnmodifiableEnumSet(");
  __out(__, expression);
  __out(")");
} else if ($if(a.isGenerateOrdinalValueSet())) {
  __out("Not implemented generate OrdinalValue set for JDK only");
}
else if ($if(a.isListType())) {
    _.dl(); _.ln();
    _.out(" createUnmodifiableList(false, ");
$(_, safeList);
    _.out(")").ln();
    _.out(" ");
} else if ($if(a.isSetType())) {
    _.dl(); _.ln();
    _.out(" createUnmodifiableSet("");
$(_, safeList);
    _.out(")").ln();
    _.out(" ");
} else if ($if(a.isGenerateEnumMap())) {
    _.dl(); _.ln();
    _.out(" createUnmodifiableEnumMap(");
$(_, safe, and, a.nullElements.ban());
    _.out(", ");
$(_, a.nullElements.skip());
    _.out(" ");
$(_, expression);
    _.out(")").ln();
    _.out(" ");
} else if ($if(a.isGenerateSortedMap())) {
    _.dl(); _.ln();
    _.out(" createUnmodifiableSortedMap(");
$(_, a.hasReverseOrder());
    _.out(", ");
$(_, safe, and, a.nullElements.ban());
    _.out(" ");
$(_, a.nullElements.skip());
    _.out(" ");
$(_, expression);
    _.out(")").ln();
    _.out(" ");
} else if ($if(a.isMapType())) {
    _.dl(); _.ln();
    _.out(" createUnmodifiableMap(");
$(_, safe, and, a.nullElements.ban());
    _.out(", ");
$(_, a.nullElements.skip());
    _.out(" ");
$(_, expression);
    _.out(")").ln();
    _.out(" ");
} else {


__.dl();__.ln();
$__().expression();
__.ln();
__.out(" ");

}__else{__dl();__.ln();
__.out(" ");
__.dl();
if ($if(a.isGenerateSortedSet())) {
  __dl();__.ln();
  __out(" ");
  $__().guava();
  __out("CollectImmutableSortedSet.copyOf(").ln();
  __out(" ");
  __dl();
  if ($if(a.hasNaturalOrder())) {
    __dl();__.ln();
    __out(" ");
    $__().guava();
    __out("CollectOrdering<").ln();
    __out(" ");
    __dl();
  } else {
    __dl();__.ln();
    __out(" ");
    $__().guava();
    __out("CollectOrdering<").ln();
    __out(" ");
  }
  __dl();__.ln();
  __out(" ");
  $__().natural().ln();
  __out(" ");
} else if ($if(a.isGenerateEnumSet())) {
  __dl();__.ln();
  __out(" ");
  $__().guava();
  __out("CollectOrdering<");
  $__().getElement();
  __out(">natural(),".ln();
  __out(" ");
  __dl();
  __dl();__.ln();
  __out(" ");
  $__().natural().ln();
  __out(" ");
} else if ($if(a.isGenerateEnumSet())) {
  __dl();__.ln();
  __out(" ");
  $__().guava();
  __out(" ");
  __out(" ");
  __out(" ");
} else if ($if(a.isGenerateEnumSet())) {
  __dl();__.ln();
  __out(" ");
  $__().guava();
  __out(" ");
}
__out(".collect.Sets.immutableEnumSet(");
$___.expression);
__out(")").ln();
__out(" ");
} else if ($if(a.isGenerateOrdinalValueSet())) {
__dl();__ln();
__out(" org.immutables.ordinal.ImmutableOrdinalSet.copyOf(");
$___.expression);
__out(")").ln();
__out(" ");
} else if ($if(a.isGenerateSortedMultiset())) {
__dl();__ln();
__out(" ");
$___.guava);
__out(".collect.ImmutableSortedMultiset.copyOf(").ln();
__out(" ");
__dl();
if ($if(a.hasNaturalOrder())) {
__dl();__ln();
__out(" ");
$___.guava);
__out(".collect.Ordering.<");
$___.a.getElementType());
__out(">natural(),").ln();
__out(" ");
} else {
__dl();__ln();
__out(" ");
$___.guava);
__out(".collect.Ordering.<");
$___.a.getElementType());
__out(">natural().reverse(),").ln();
__out(" ");
}
__dl();__ln();
__out(" ");
$___.expression);
__out(")").ln();
__out(" ");
} else if ($if(a.isCustomCollectionType())) {
__dl();__ln();
__out(" ");
$___.a.getRawType());
__out("from(");
$___.expression);
__out(")").ln();
__out("  ");
} else if ($if(a.isCollectionType())) {
    __dl();__ln();
    __out("  ");
$(__, guava);
    __out(".collect.Immutable");
$(__, a.getRawCollectionType());
    __out(".copyOf(");
$(__, expression);
    __out(")").ln();
    __out("  ");
} else if ($if(a.isGenerateSortedMap())) {
    __dl();__ln();
    __out("  ");
$(__, guava);
    __out(".collect.ImmutableSortedMap.copyOf(");
$(__, expression);
    __out(", ").ln();
    __out("  ");
    __dl();
if ($if(a.hasNaturalOrder())) {
    __dl();__ln();
    __out("  ");
$(__, guava);
    __out(".collect.Ordering.<");
$(__, a.getElementType());
    __out("natural() ").ln();
    __out("  ");
} else {
    __dl();__ln();
    __out("  ");
$(__, guava);
    __out(".collect.Ordering.<");
$(__, a.getElementType());
    __out(">natural().reverse() ").ln();
    __out("  ");
}
    __dl();__out(" ").ln();
    __out("  ");
} else if ($if(a.isGenerateEnumMap())) {
    __dl();__ln();
    __out("  ");
$(__, guava);
    __out(".collect.Maps.immutableEnumMap(");
$(__, expression);
    __out("").ln();
public org.immutables.generator.Templates.Invokable equalsAttribute() { return equalsAttribute; }
private final org.immutables.generator.Templates.Invokable equalsAttribute = new FragmentDispatch(2, 61);
void _t61__equalsAttribute(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
    final java.lang.Boolean useAccessor = $if(__.param(1));
    final org.immutables.value.processor.meta.ValueAttribute another = $if($(a.name(), eq, "another"));
    __out("this.");
    __out("'");
    __ln();
    __out("", expression);
    __ln();
    __out("'");
    __ln();
    __out("" );
}
__ln();
__dl();


final org.immutables.generator.Templates.Invokable getOther = new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl(); final org.immutables.generator.Templates.Invokable getOther = this;
    __.dl();
    if ($if(useAccessor)) {
      __.dl(); $(__, a.names.get);
      __.out("()");
    } else {
      __.dl(); $(__, a.name());
    }
    __.dl(); __.dl();
  }
}

if ($if(a.isEncoding())) {
  __.dl(); __.ln();
  __.out("another.");
  __.dl();
  __.dl();
} else if ($if(a.isFloat())) {
  __.dl(); __.ln();
  __.out(" Float.floatToIntBits(");
  $(__, thisAttr);
  __.out(") == Float.floatToIntBits(");
  $(__, getOther);
  __.out(")").ln();
} else if ($if(a.isDouble())) {
  __.dl(); __.ln();
  __.out(" Double.doubleToLongBits(");
  $(__, thisAttr);
  __.out(") == Double.doubleToLongBits(");
  $(__, getOther);
  __.out(")").ln();
} else if ($if(a.isPrimitive())) {
  __.dl(); __.ln();
  __.out(" ");
  $(__, thisAttr);
  __.out(" == ");
  $(__, getOther);
  __.out(" == ");
  $(__, getOther);
  __.ln();
}
if (a.isArrayType()) {
  __dl();__ln();
  __out("  java.util.Arrays.equals(");
  $(__, thisAttr);
  __out(" , ");
  $(__, getOther);
  __out(" )
  $(__, objectsEqual, a.containingType);
  __out(" ");
  $(__, thisAttr);
  __out(" , ");
  $(__, getOther);
  __out(" )

} else {
  __dl();__ln();
  __out("  ");
  $(__, thisAttr);
  __out(" .equals(");
  $(__, getOther);
  __out(" )

} __dl();__ln();

public org.immutables.generator.Templates.Invokable arrayAsList() { return arrayAsList; }
private final org.immutables.generator.Templates.Invokable arrayAsList = new FragmentDispatch(2, 62);

void _t62__arrayAsList(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  final java.lang.String expression = __.param(1).toString();
  $(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
          __dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
          final java.lang.String expression = __.param(1).toString();

          if ($if(a.isUnwrappedElementPrimitiveType())) {
              __dl();__ln();
              __out("  ");
              __dl();
              if ($if(a.isGenerateJdkOnly())) {
                  __dl();__ln();
                  __out("  ");
                  __dl();
              } else if ($if(a.isNullable(), or, a.isJdkOptional())) {
                  __dl();__ln();
                  __out("  ");
                  $(__, objectsEqual, a.containingType);
                  __out(" ");
                  $(__, thisAttr);
                  __out(" , ");
                  $(__, getOther);
                  __out(" )

              } else {
                  __dl();__ln();
                  __out("  ");
                  $(__, thisAttr);
                  __out(" .equals(");
                  $(__, getOther);
                  __out(" )

              }
          }
          __dl();__ln();

      }
  });
  __dl();
}
@Override public void run(org.immutables.generator.Templates.Invokation __) {
  __dl(); __out("Template methods 'arrayAsList' could not be used for primitive jdk only conversion");
  __dl();
  __ln();
  __out(" ");

  __dl(); __ln();
  __out(" ");
  $(__, guava);
  __out(".primitives.");
  $(__, toUpper, a.getUnwrappedElementType());
  __out("s.asList(");
  $(__, expression);
  __out(")").ln();
  __out(" ");

  __dl(); __ln();
} else {
  __dl(); __ln();
  __out("java.util.Arrays.asList(");
  $(__, expression);
  __out(")").ln();

  __dl(); __ln();
  __dl();
} });
__dl();

public org.immutables.generator.Templates.Invokable arrayAsListSecondary() { return arrayAsListSecondary; }
private final org.immutables.generator.Templates.Invokable arrayAsListSecondary = new FragmentDispatch(2, 63);
void _t63__arrayAsListSecondary(org.immutables.generator.Templates.Invokation __) {
  __dl(); final org.immutables.value.processor.meta.ValueAttribute a = $cast(__param(0));
  final java.lang.String expression = __param(1).toString();
  $(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl(); __ln();
      __dl();
      if (a.isUnwrappedSecondaryElementPrimitiveType()) {
        __dl(); __ln();
        __out(" ");
        __dl();
      }
  });
  __dl();
}
if ($if(a.isGenerateJdkOnly())) {
  __.dl();__.ln();
  __.out("    ");
  {% @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();__.out("Template methods VarArrayAsList\ could not be used for primitive jdk only conversion");
    __.dl();
    __.ln();
    __.out("    ");
  } %}
  __.ln();
  __.out("  ");
} else {
  __.dl();__.ln();
  __.out("    ");
  {% $(__, org.immutables.generator.Templates.Invokation __) {
    __.dl();__.out(\".primitives.\");
    __.toUpper, a.getUnwrappedSecondaryElementType());
    __.out("s.asList\()\");%
    __.ln();
    __.out("  ");
  } %}
  __.dl();__.ln();
} else {
  __.dl();__.ln();
  __.out(" java.util.Arrays.asList\()\");
  __.trim, new org.immutables.generator.Templates.Fragment(0) %}
  __.dl();__.ln();
} %}
  __.dl();

public org.immutables.generator.Templates.Invokable primitiveHashCode() { return primitiveHashCode; }
private final org.immutables.generator.Templates.Invokable primitiveHashCode = new FragmentDispatch(1, 64);
void _t64__primitiveHashCode(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
  __.trim, new org.immutables.generator.Templates.Fragment(0) %}
  __.dl();__.ln();
__out(" ");
$___.v.name();
$___.ln();
} else if ($if(v.isGenerateJdkOnly())) {
__dl();___.ln();
__out(" ");
__dl();
if ($if($(classpath.isJava8(), andnot, $(classpath.available, "android.R")))) {
__dl();___.ln();
__out(" ");
$___.v.getWrapperType();
__out(" .hashCode()");
$___.v.name();
___.ln();
__out(" ");
} else if ($if(v.isLong())) {
__dl();___.ln();
__out(" (int "");
$___.v.name();
___.ln();
__out(" ^ ");
$___.v.name();
___.ln();
__out(" >>> 32")").ln();
__out(" ");
} else if ($if(v.isBoolean())) {
__dl();___.ln();
__out(" ");
$___.v.name();
___.ln();
__out(" ? 1231 : 1237")").ln();
__out(" ");
} else if ($if(v.isFloat())) {
__dl();___.ln();
__out(" Float.floatToBigInt()");
$___.v.name();
___.ln();
__out(" ");
} else if ($if(v.isDouble())) {
__dl();___.ln();
___.ln();
___.ln();
___.ln();
___.ln();

} else {
___.ln();
__out(" (int ");
$___.v.name();
___.ln();
__out(" ");
}
public org.immutables.generator.Templates.Invokable objectsEqual() { return objectsEqual; }
private final org.immutables.generator.Templates.Invokable objectsEqual = new FragmentDispatch(1, 65);
void _t65__objectsEqual(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __.output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
      final java.lang.Boolean hasObjects = $cast($(classpath.available, "java.util.Objects"));
      final java.lang.Boolean hasAndroid = $cast($(classpath.available, "android.R"));
      if ($if(type.isGenerateJdkOnly())) {
        __.dl();
        __.ln();
        __.out(" ");
        $(__, topSimplePrefix, type);
        __.out("equals").ln();
        __.out(" ");
      } else if ($if(hasAndroid)) {
        __.dl();
        __.ln();
        __.out(" ");
        $(__, topSimplePrefix, type);
        __.out("equals").ln();
        __.out(" ");
      } else if ($if(hasObjects)) {
        __.dl();
        __.ln();
        __.out(" java.util.Objects.equals").ln();
        __.out(" ");
      }
    }
  };
}
public org.immutables.generator.Templates.Invokable objectsHashCode() { return objectsHashCode; }
private final org.immutables.generator.Templates.Invokable objectsHashCode = new FragmentDispatch(1, 66);
void _t66__objectsHashCode(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    $(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
            
        }
    });
}
final java.lang.Boolean hasObjects = $cast($(classpath.available, "java.util.Objects"));
final java.lang.Boolean hasAndroid = $cast($(classpath.available, "android.R"));
__dl();__ln();
__dl();
if ($_if(type.isGenerateJdkOnly())) {
  __dl();__ln();
  __out(" ");
  __dl();
  if ($_if(hasAndroid)) {
    __dl();__ln();
    __out(" ");
    $__(__, topSimplePrefix, type);
    __out("hashCode").ln();
    __out(" ");
  } else if ($_if(hasObjects)) {
    __dl();__ln();
    __out(" java.util.Objects.hashCode").ln();
    __out(" ");
  } else {
    __dl();__ln();
    __out(" ");
    $__(__, topSimplePrefix, type);
    __out("hashCode").ln();
    __out(" ");
  }
} else {
  __dl();__ln();
  __out(" ");
  if ($_if($(hasObjects, andnot, hasAndroid))) {
    __dl();__ln();
    __out(" ");
    $__(__, guava);
    __out("base.Objects.hashCode").ln();
    __out(" ");
  } else {
    __dl();__ln();
    __out(" ");
    $(__, guava);
    __out("base.Objects.hashCode").ln();
    __out(" ");
  }
} else {
  __dl();__ln();
  __out(" ");
  __dl();
  if ($_if($$(hasObjects, andnot, hasAndroid))) {
    __dl();__ln();
    __out(" ");
    __dl();
  } else {
    __dl();__ln();
    __out(" ");
    $(__, guava);
    __out("base.Objects.hashCode").ln();
    __out(" ");
  }
} else {
  __dl();__ln();
  __out(" ");
  $(__, guava);
  __out("base.Objects.hashCode").ln();
  __out(" ");
}
public org.immutables.generator.Templates.Invokable requireNonNull() {
    return requireNonNull;
}

private final org.immutables.generator.Templates.Invokable requireNonNull = new FragmentDispatch(1, 67);

void _t67__requireNonNull(org.immutables.generator.Templates.Invokation __) {

    final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));

    if ($if(type.getThrowForNullPointer())) {
        $(__, topSimplePrefix, type);
        out(" requireNonNull").ln();
    } else if ($if(type.isGenerateJdkOnly())) {
        $(__, topSimplePrefix, type);
        if ($if(hasAndroid)) {
            out(" android.R").ln();
        } else if ($if(hasObjects)) {
            java.util.Objects.requireNonNull().ln();
        } else {
            $(__, topSimplePrefix, type);
            requireNonNull().ln();
        }
    } else if ($if(hasObjects)) {
        requireNonNull().ln();
    } else {
        $(__, topSimplePrefix, type);
        "requireNonNull".ln();
    }
}
__out("  ");
__dl();__ln();

} else {
__dl();__ln();
__out("  ");
__dl();
if ($if($hasObjects, andnot, hasAndroid)) {
__dl();__ln();
__out("    java.util.Objects.requireNonNull").ln();
__out("  ");

} else {
__dl();__ln();
__out("    ");
$__(_, guava);
__out(".base.Preconditions.checkNotNull").ln();
__out("  ");

}
__dl();__ln();
__dl();_it1.index++;
_it1.first = false;
}
__dl();__ln();
__dl();
}));
__dl();

public org.immutables.generator.Templates.Invokable objectsUtility() { return objectsUtility; }
private final org.immutables.generator.Templates.Invokable objectsUtility = new FragmentDispatch(1, 68);
void _t68__objectsUtility(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
__ln();
__dl();
if ($if(type.getThrowForNullPointer()) ) {
__dl();__ln();
__ln();
__out("private static <T> T requireNonNull(T object, String message) ").ln();
__out("    if (object == null) throw new ");
$__(_, type.getThrowForNullPointer());
__out("(message);"));

}
if (type.isGenerateJdkOnly()) {
	final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
	if ($if(type.isUseNullSafeUtilities())) {
		__out("private static <T> T requireNonNull(T object, String message) {").ln();
		__out(" private static int hashCode(Object object) {").ln();
		__out(" return object.hashCode() : 0;").ln();
		__out(" private static boolean equals(Object left, Object right) {").ln();
		__out(" return left == right || (left != null && left.equals(right));").ln();
		__out(" private static int hasDefault(Object object) {").ln();
		__out(" return object.hashCode() : 0;").ln();
		__out(" private static boolean isCallable(Object object) {").ln();
		__out(" return object instanceof java.util.function.Callable;").ln();
		__out(" private static int compareTo(Object left, Object right) {").ln();
		__out(" return new java.util.Comparator().compare(left, right);").ln();
		__out(" private static int compare(Object left, Object right) {").ln();
		__out(" return new java.util.Comparator().compare(left, right);").ln();
		__out(" private static boolean isCollection(Object object) {").ln();
		__out(" return object instanceof java.util.Collection;").ln();
		__out(" private static boolean isMap(Object object) {").ln();
		__out(" return object instanceof java.util.Map;").ln();
		__out(" private static boolean isRunnable(Object object) {").ln();
		__out(" return object instanceof java.lang.Runnable;").ln();
		__out(" private static boolean isCallable(Object object) {").ln();
		__out(" return object instanceof java.lang.Callable;").ln();
		__out(" private static int compare(Object left, Object right) {").ln();
		__out(" return new java.util.Comparator().compare(left, right);").ln();
		__out(" private static boolean isCallable(Object object) {").ln();
		__out(" return object instanceof java.util.function.Callable;").ln();
		__out(" private static int compareTo(Object left, Object right) {").ln();
		__out(" return new java.util.Comparator().compare(left, right);").ln();
		__out(" private static boolean isRunnable(Object object) {").ln();
		__out(" return object instanceof java.lang.Runnable;").ln();
		__out(" private static int hasDefault(Object object) {").ln();
		__out(" return object.hashCode() : 0;").ln();
		__out(" private static boolean equals(Object left, Object right) {").ln();
		__out(" return left == right || (left != null && left.equals(right));").ln();
		__out(" private static int hashCode(Object object) {").ln();
		__out(" return object != null ? object.hashCode() : 0;").ln();
	}
public org.immutables.generator.Templates.Invokable attributeBuilderTransformUtilities() { return attributeBuilderTransformUtilities; }

private final org.immutables.generator.Templates.Invokable attributeBuilderTransformUtilities = new FragmentDispatch(1, 69);

void _t69__attributeBuilderTransformUtilities(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __.ln();
    __.ln();
    __.dl();
    if ($if(type.detectAttributeBuilders())) {
        __.dl();
        __.ln();
        __.ln();
        final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getUniqueAttributeBuilderAttributes())) {
            __.dl();
            __.ln();
            __.ln();
            final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
            __.dl();
            if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
                __.dl();
                __.ln();
                __.out("private static ");
                $(_.v.getAttributeBuilderDescriptor().getQualifiedValueTypeName());
                __.out(";
                ...
            }
            __.ln();
            __.ln();
            __.out("private static ");
            $(_.v.getAttributeBuilderDescriptor().getQualifiedValueTypeName());
            __.out(";
            ...
        }
    }
}

}
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
  __dl();
  if ($if($s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
    __dl(); __out("@javax.annotation.Nullable ");
  }
  __dl();
} __out(" ");
$(__, v.getAttributeBuilderDescriptor().getQualifiedBuilderTypeName());
  __out(" builder ");
  __out(" if (builder == null) return null;");
  __out(" return builder.");
$(__, v.getAttributeBuilderDescriptor().getBuildMethod());
  __out(";");
  __out(" ");
  __dl();

{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
  __dl();
  if ($if($s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
    __dl(); __out("@javax.annotation.Nullable ");
  }
  __dl();
} __ln();
  __dl(); __ln();
  __out("private static ");
  __dl();
  if ($if(v.hasAttributeValue())) {
    __dl();$(__, v.getAttributeType(typeAbstract().absolute()));
  } else {
    __dl();$__; v.getAttributeBuilderDescriptor().getQualifiedValueTypeName();
  } __dl(); __out(" ");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_convertToValueType_1028768993 =
  $cast(v.getAttributeBuilderDescriptor());
  __out("convertToValueType");
  $(__, n_convertToValueType_1028768993.getQualifiedValueTypeNameWithUnderscores());
} __out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
  __dl();
  if ($if($s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
    __dl(); __out("@javax.annotation.Nullable ");
  }
  __dl();
}
if ($if(v.hasAttributeValue())) {
    $(__, v.attributeValueType.typeAbstract().absolute());
} else {
    $(__, v.getAttributeBuilderDescriptor().getQualifiedValueTypeName());
}

{final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_valueToBuilder_1442539515 = $cast(v.getAttributeBuilderDescriptor());
    final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            $(__, expression_valueToBuilder_1442539515);
            $(__, n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
            ...
        }
    });
    if ($if(n_valueToBuilder_1442539515.isCopyMethodOnValueInstance())) {
        $(__, expression_valueToBuilder_1442539515);
        $(__, n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
    } else {
        $(__, expression_valueToBuilder_1442539515);
    }
} else {
    $(__, v.getAttributeBuilderDescriptor().getBuildMethod());
}
}
private static {final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_convertToBuilderType_187063380 = $cast(v.getAttributeBuilderDescriptor());
__out("convertToBuilderType");
$__ n_convertToBuilderType_187063380.getQualifiedNameTypeNameWithUnderscores();}
__out("(");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
__dl();
if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) { __dl();__out("@javax.annotation.Nullable ");
}
__dl();
__out(" ");
__dl();
if ($if(v.hasAttributeValue())) { __dl();$__ v.attributeValueType.typeAbstract().absolute();} else { __dl();$__ v.getAttributeBuilderDescriptor().getQualifiedNameTypeName();}
__dl();__out(" value") .Ln();
__out(" if (value == null) return null;");.Ln();
__out(" return ");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_valueToBuilder_1442539515 = $cast(v.getAttributeBuilderDescriptor());
final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = this;
    __out("value");
    __dl();
  }); __dl();__dl();
  if ($if(n_valueToBuilder_1442539515.isCopyMethodOnValueInstance())) { __dl();$__ (expression_valueToBuilder_1442539515);__out(".");}
$(__, n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
$___.out("()")

} else {
  ___.dl();$___.n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod();
  ___.out("(");
  $(___.expression_valueToBuilder_1442539515);
  ___.out("")

  }
  ___.dl();
}___.out(";").ln();
___.out(";").ln();
___.dl();___.ln();
{final org.immutables.generator.Templates.Iteration __it1 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute v :
    $in(type.getUniqueAttributeBuilderListAttributes())) {
    ___.dl();___.ln();
    final org.immutables.generator.Templates.Invokable listType = new
    org.immutables.generator.Templates.Invokable listType = new
go
    org.immutables.generator.Templates.Invokable listType = new
templates.Templates.Iteration __it1 = new org.immutables.generator.Templates.Iteration();
  }
  final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_convertToValueType_1028768993 =
  $cast(v.getAttributeBuilderDescriptor());
  ___.dl();$(___.v.getAttributeBuilderDescriptor().getQualifiedValueTypeName());

  }
  ___.dl();___.dl();
}___.dl();___.ln();
___.out("private static java.util.List<");
$(___.listType);
___.out(">");

}final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_convertToValueType_1028768993 =
$cast(v.getAttributeBuilderDescriptor());
___.out("convertToValueType");
$(__. n_convertToValueType_1028768993.getQualifiedValueTypeNameWithUnderscores());

}___.out("(Iterable<? extends ");
$(___.v.getAttributeBuilderDescriptor().getQualifiedBuilderTypeName());
__ln();
__out("private static java.util.List<");
$___.v.getAttributeBuilderDescriptor().getQualifiedBuilderTypeName();
__out(">");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_convertToBuilderType_187063380 = $cast(v.getAttributeBuilderDescriptor());
__out("convertToBuilderType");
$___.n_convertToBuilderType_187063380.getQualifiedValueTypeNameWithUnderscores();
}
__out(";");
$___.v.getAttributeBuilderDescriptor().getQualifiedValueTypeName();
__out("... valueArray) {__.ln();
$___.copyBuilderFactoryBody, v, $$false, $$true, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__.dl();__.out("valueArray");
__.dl();
}}
__ln();
__out("}").ln();
__.dl();__it1.index++;
__it1.first = false;
}
__.dl();__ln();
}
__.dl();__ln();
__dl();
}
org.immutables.generator.Templates.Invokable convertToBuilderType() { return convertToBuilderType; }
private final org.immutables.generator.Templates.Invokable convertToBuilderType = new FragmentDispatch(1, 70);
void _t70__convertToBuilderType(org.immutables.generator.Templates.Invokation __) {
__.dl();final org.immutables.value.processor.meta.AttributeBuilderDescriptor n = $cast(__.param(0));
__out("convertToBuilderType");
$___.n.getQualifiedValueTypeNameWithUnderscores();
__.dl();
};
org.immutables.generator.Templates.Invokable convertToValueType() { return convertToValueType; }
private final org.immutables.generator.Templates.Invokable convertToValueType = new FragmentDispatch(1, 71);
void _t71__convertToValueType(org.immutables.generator.Templates.Invokation __) {
__.dl();final org.immutables.value.processor.meta.AttributeBuilderDescriptor n = $cast(__.param(0));
__out("convertToValueType");
$___.n.getQualifiedValueTypeNameWithUnderscores();
__.dl();
};
org.immutables.generator.Templates.Invokable copyBuilderListBody() { return copyBuilderListBody; }

private final org.immutables.generator.Templates.Invokable copyBuilderListBody = new FragmentDispatch(4, 72);

void _t72__copyBuilderListBody(org.immutables.generator.Templates.Invokation __) {
    __dl(); final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
    final java.lang.Boolean toValueType = $if(__.param(1));
    final java.lang.Boolean vars = $if(__.param(2));
    final java.lang.String listToTransform = __.param(3).toString();
    __ln();
    final org.immutables.generator.Templates.Invokable listType = new org.immutables.generator.Templates.Fragment(0) {

        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl(); final org.immutables.generator.Templates.Invokable listType = this;
            __dl();
            if ($if(toValueType)) {
                __dl(); __dl();
                if ($if(v.hasAttributeValue())) {
                    __dl(); $(__, v.attributeValueType.typeAbstract().absolute());
                } else {
                    __dl(); $(__, v.getAttributeBuilderDescriptor().getQualifiedValueTypeName());
                }
            } else {
                __dl(); $(__, v.getAttributeBuilderDescriptor().getQualifiedBuilderTypeName());
            }
            __dl();
        }
    };
    $__out("  ");
    __dl();
    if ($if(v.isGenerateJdkOnly())) {
        __dl(); __ln();
        $__out("  java.util.ArrayList<");
        $(__, listType);
        $__out(" list; ");
        __ln();
        __out("  ");
        __dl();
        if ($if(vars)) {
            __dl(); __ln();
            __out("  if ");
            $(__, listToTransform);
            __out("  length == 0) return java.util.Collections.emptyList; ");
            __out("  ");
            __ln();
        } else {
            __dl(); __ln();
            __out("  if ");
            __ln();
        }
    }
}
public org.immutables.generator.Templates.Invokable collectionUtility() { return collectionUtility; }
private final org.immutables.generator.Templates.Invokable collectionUtility = new FragmentDispatch(1, 73);
void _t73__collectionUtility(org.immutables.generator.Templates.Invokation __) {
  __dl();
  __ln();
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __dl();
  __ln();
  if ($if($type.isUseListUtility(), or, $type.isUseSetUtility(), or, $type.isUseEnumSetUtility(), or, $type.isUseSortedSetUtility()))) {
    __dl();
    __ln();
    __out("private static <T> java.util.List<T> createSafeList(Iterable<? extends T> iterable, boolean checkNulls, boolean skipNulls) { ");
    __out(" return new java.util.ArrayList<T>(); ");
    __out(" if (iterable instanceof java.util.Collection<?>) { ");
    __out(" int size = ((java.util.Collection<?>) iterable).size(); ");
    __out(" if (size == 0) return java.util.Collections.emptyList(); ");
    __out(" list = new java.util.ArrayList<T>(); ");
    __out(" $(__, asDiamond, ",T")");
    __out(" if (iterable instanceof java.util.Collection<?>) { ");
    __out(" int size = ((java.util.Collection<?>) iterable).size(); ");
    __out(" if (size == 0) return java.util.Collections.emptyList(); ");
    __out(" list = new java.util.ArrayList<T>(); ");
    __out(" $(__, asDiamond, ",T")");
    __out(" } else { ");
    __out(" list = new java.util.ArrayList<T>(); ");
    __out(" $(__, asDiamond, ",T")");
    __out(" } ");
    __out(" for (T element : iterable) { ");
    __out(" if (skipNulls && element == null) continue; ");
    __out(" if (checkNulls) ");
    __out(" requireNonNull(type); ");
    __out(" element, "element\n"); ");
    __out(" list.add(element); ");
    __out(" ");
    __out(" return list; ");
  }
  
  __dl();
  __ln();
  if ($if($type.isUseListUtility())) {
    __dl();
    __ln();
  }
}
```java
public static <T> java.util.List<T> createUnmodifiableList(boolean clone, java.util.List<T> list) {
    switch(list.size()) {
    case 0: return java.util.Collections.emptyList();
    case 1: return java.util.Collections.singletonList(list.get(0));
    default:
        if (clone) {
            return java.util.Collections.unmodifiableList(new java.util.ArrayList<T>(list));
        } else {
            if (list instanceof java.util.ArrayList<?>) {
                ((java.util.ArrayList<?>) list).trimToSize();
            }
            return java.util.Collections.unmodifiableList(list);
        }
    }
}

if (type.isUseSetUtility()) {
    /** Unmodifiable set constructed from list to avoid rehashing. */
    private static <T> java.util.Set<T> createUnmodifiableSet(java.util.List<T> list) {
        switch(list.size()) {
        case 0: return java.util.Collections.emptySet();
        case 1: return java.util.Collections.singleton(list.get(0));
        default:
            java.util.Set<T> set = new java.util.LinkedHashSet<T>(list.size());
            set.addAll(list);
            return java.util.Collections.unmodifiableSet(set);
        }
    }
}

if (type.isUseEnumSetUtility()) {
    @SuppressWarnings("unchecked")
    private static <T extends Enum<T>> java.util.Set<T> createUnmodifiableEnumSet(Iterable<T> iterable) {
        if (iterable instanceof java.util.EnumSet<?>) {
            return java.util.Collections.unmodifiableSet(iterable);
        } else {
            java.util.Set<T> set = new java.util.LinkedHashSet<T>();
            set.addAll(iterable);
            return java.util.Collections.unmodifiableSet(set);
        }
    }
}
```
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```java
__out("    return java.util.Collections.unmodifiableSet(java.util.EnumSet.copyOf((java.util.EnumSet<T>)
iterable));").ln();
__out("  }").ln();
__out("  java.util.List<T> list = createSafeList(iterable, true, false); ").ln();
__out(" switch(list.size()) {").ln();
__out("    case 0: return java.util.Collections.emptySet(); ").ln();
__out("    case 1: return java.util.Collections.singleton(list.get(0)); ").ln();
__out("    default: return java.util.Collections.unmodifiableSet(java.util.EnumSet.copyOf(list)); ").ln();
__out("  }").ln();
__out("}").ln();
}
__dl();__ln();
__dl();
if ($if(type.isUseSortedSetUtility())) {
__dl();__ln();
final org.immutables.generator.Templates.Invokable unmodifiableSortedSetInterface = new
org.immutables.generator.Templates.Invokable unmodifiableSortedSetInterface = new
org.immutables.generator.Templates.Invokable unmodifiableSortedSetInterface = new

@Override public void run(org.immutables.generator.Templates.Invokation __) {__dl();__ln();
@Override public void run(org.immutables.generator.Templates.Invokation __) {__dl();__ln();
@Override public void run(org.immutables.generator.Templates.Invokation __) {
  NavigableSet
}
  SortedSet
}

private static <T extends Comparable<T>> java.util.
$(__, unmodifiableSortedSetInterface);
private static <T extends Comparable<T>> java.util.
$(__, unmodifiableSortedSetInterface);
private static <T extends Comparable<T>> java.util.
```
if ($if(type.isUseMapUtility())) {
__dli();__ln();
__dli();
__out(" switch (map.size()) {").ln();
__out(" case 0: return java.util.Collections.emptyMap();").ln();
__out(" case 1: {").ln();
__out(" java.util.Map.Entry<? extends K, ? extends V> e = map.entrySet().iterator().next();").ln();
__out(" K k = e.getKey();").ln();
__out(" V v = e.getValue();").ln();
__out(" if (checkNulls) {").ln();
$__dl();
__out(" requireNonNull(type); ").ln();
__out("(k, "key");").ln();
__out("(v, "value");").ln();
__out(" }").ln();
__out(" if (skipNulls && (k == null || v == null)) {").ln();
__out(" return java.util.Collections.emptyMap();").ln();
__out(" }").ln();
__out(" return java.util.Collections.singletonMap(k, v);"").ln();
__out(" }").ln();
__out(" default: {").ln();
__out(" java.util.Map<K, V> linkedMap = new java.util.LinkedHashMap(").ln();
$__dl();
__out("(map.size());").ln();
__out(" if (skipNulls || checkNulls) {").ln();
__out(" for (java.util.Map.Entry<K, V> e : map.entrySet()) {").ln();
__out(" K k = e.getKey();").ln();
__out(" V v = e.getValue();").ln();
__out(" if (skipNulls) {").ln();
__out(" if (k == null || v == null) continue;").ln();
__out(" }").ln();
$__dl();
__out(" if (checkNulls) {").ln();
__out(" }").ln();
__out(" requireNonNull(type); ").ln();
__out("(k, "key");"").ln();
}
if ($if(type.isUseEnumMapUtility())) {
  __dl();__ln();
  __dl();
  __out("  if (map.isEmpty()) return java.util.Collections.emptyMap();".ln();
  __out("  java.util.EnumMap<K, V> enumMap = new java.util.EnumMap<".ln();
  __out("    map);".ln();
  __out("  if (checkNulls || skipNulls) {
    java.util.Iterator<? extends V> it = map.values().iterator();".ln();
  __out("      V v = it.next();".ln();
  __out("    if (checkNulls) {
      "}.ln();
  __out("    else if (skipNulls) {
      if (v == null) it.remove();".ln();
  __out("    } else {
      "}.ln();
  __out("      linkedMap.putAll(map);".ln();
  __out("    }".ln();
  __out("  } else {".ln();
  __out("    linkedMap.put(k, v);".ln();
  __out("  }".ln();
  __out("  }".ln();
  __out("  return java.util.Collections.unmodifiableMap(enumMap);".ln();
  __out("  }".ln();
  __out("  }".ln();
  __out("}".ln();

  __dl();__ln();
  __dl();
}

if ($if(type.isUseSortedMapUtility())) {
  __dl();__ln();
  __dl();
  final org.immutables.generator.Templates.Invokable unmodifiableSortedMapInterface = new
org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.generator.Templates.Invokable unmodifiableSortedMapInterface = this;
    $(@output.trim, new org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();___.ln();
        __.dl();
        if ($if($(classpath.available, "java.lang.FunctionalInterface"))) {
          __.dl();___.ln();
          __.out("  NavigableMap").ln();
        } else {
          __.dl();___.ln();
          __.out("  SortedMap").ln();
        }
        __.dl();___.ln();
        __.dl();
    }));
    __.dl();
  }
  __.ln();
  __.ln();
  __.out("private static <K extends Comparable<K>, V> java.util.
    $(__, unmodifiableSortedMapInterface);
    __.out("<K, V> createUnmodifiableSortedMap(boolean reverse, boolean checkNulls, boolean skipNulls,
    java.util.Map<? extends K, ? extends V> map) {").ln();
    __.out("  java.util.TreeMap<? extends K, ? extends V> sortedMap = reverse
      ? new java.util.TreeMap();
    $(@ asDiamond, "K, V");
    __.out("  : new java.util.TreeMap()");
    $(@ asDiamond, "K, V");
    __.out(";");.ln();
    __.ln();
    __.out("  if (checkNulls || skipNulls) {").ln();
    __.out("    K k = e.getKey();");.ln();
    __.out("    V v = e.getValue();");.ln();
    __.out("    if (skipNulls) {").ln();
    __.out("      if (k == null || v == null) continue;");.ln();
    __.out("    } else if (checkNulls) {").ln();
    __.out("    ");
    $(@ requireNonNull, type);
    __.out("(k, \"key\")");.ln();
    __.out("  ");
    $(@ requireNonNull, type);
    __.out("(v, \"value\")");.ln();
    __.out("  ");.ln();
  }});
import org.immutables.generator.Templates.Invokable;

public org.immutables.generator.Templates.Invokable javadocGenerics() { return javadocGenerics; }

private final org.immutables.generator.Templates.Invokable javadocGenerics = new FragmentDispatch(1, 74);

void _t74__javadocGenerics(Templates.Invokation __) {
    final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    _it1 = new org.immutables.generator.Templates.Iteration();
    for (final java.lang.String p : $in(type.generics().vars())) {
        final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
        _it1.index++;
        _it1.first = false;
    }
}

org.immutables.generator.Templates.Invokable defineOrResetBuildingField() { return defineOrResetBuildingField; }

private final org.immutables.generator.Templates.Invokable defineOrResetBuildingField = new FragmentDispatch(2, 75);

void _t75__defineOrResetBuildingField(Templates.Invokation __) {
    final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
    final java.lang.Boolean declare = $if(__.param(1));
    $(__, defineOrResetBuildingFieldAlt, v, declare, $$false);
}

org.immutables.generator.Templates.Invokable defineOrResetBuildingFieldAlt() { return defineOrResetBuildingFieldAlt; }
private final org.immutables.generator.Templates.Invokable defineOrResetBuildingFieldAlt = new FragmentDispatch(3, 76);
void _t76__defineOrResetBuildingFieldAlt(org.immutables.generator.Templates.Invokation __) {
    __dl__();final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
    final java.lang.Boolean declare = $if(__.param(1));
    final java.lang.Boolean toNull = $if(__.param(2));
    __ln__();
    final org.immutables.generator.Templates.Invokable accessModifier = new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl__();final org.immutables.generator.Templates.Invokable accessModifier = this;
    __dl__();
    if ($if(v.containingType.getInnerBuilder().isAccessibleFields)) {
        __dl__();__.out("protected");
    } else {
        __dl__();__.out("private");
    }
    __dl__();__dl__();
} };__dl__();__ln();
final org.immutablesgenerator.Templates.Invokable updatableAccessModifier = new org.immutablesgenerator.Templates.Fragment(0) {
@Override public void run(org.immutablesgenerator.Templates.Invokation __) {
    __dl__();final org.immutablesgenerator.Templates.Invokable updatableAccessModifier = this;
    $__();accessModifier);
    __dl__();
    if ($if($(v.containingType.isUseStrictBuilder(), andnot, toNull))) {
        __dl__();__.out(" final");
    }
    __dl__();__dl__();
} };__dl__();__ln();
__out(" ");
__dl__();
if ($if($(v.isJdkOptional(), and, v.containingType.kind().isFactory()))) {
    __dl__();__ln();
    __dl__();
    if ($if(declare)) {
        __dl__();$(__, accessModifier);
        __.out(" ");
        $(__, v.getType());
        __.out(" ");
    } else {
        __dl__();__out("this.");
    }
}
}
final org.immutables.value.processor.meta.ValueAttribute a_optionalEmpty_1867206284 = $cast(v);
$___.out(" = ");
$___.dl();
if ($if(a Optional_1867206284.isJdkOptional()) {
  $___.out("empty");
} else if ($if($(a_optionalEmpty_1867206284.isFugueOptional(), or,
a_optionalEmpty_1867206284.isJavaslangOptional()))) {
  $___.out("none");
} else {
  $___.out("absent");
}
$___.dl();
$___.out("()");
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```java
if ($(v.isOptionalType())) {
  __.dl();___.ln();
  __.dl();
  if ($(declare)) {
    __.dl();$___.accessModifier();
    __.out(" ");
    $___.v.getType();
    __.out(" ");
  } else {
    __.dl();___.out("this.");
  }
  __.dl();$___.v.name();
  __.out(" = ");
  {final org.immutables.value.processor.meta.ValueAttribute a_optionalEmpty_1867206284 = $cast(v);
    $___.a_optionalEmpty_1867206284.getRawType();
    __.out(".");
    __.dl();
    if ($(a_optionalEmpty_1867206284.isJdkOptional())) {
      __.dl();___.out("empty");
    } else if ($(a_optionalEmpty_1867206284.isFugueOptional(), or,
    a_optionalEmpty_1867206284.isJavaslangOptional())) {
      __.dl();___.out("none");
    } else {
      __.dl();___.out("absent");
    }
  }
  __.dl();___.out("()";

  __.out(";").ln();
  __.out(" ");
} else if ($(not, $(declare, or, v.isNullableCollector())))) {
  __.dl();___.ln();
  __.out("this.");
  $___.v.name();
  __.out("clear();").ln();
  __.out(" ");
} else if ($(v.isGenerateEnumMap())) {
  __.dl();___.ln();
  __.dl();
  if ($(declare)) {
    __.dl();$___.updatableAccessModifier();
    __.out("java.util.EnumMap<");
    $___.v.getWrappedElementType();
```
__.out(",");
$(__, v.getWrappedSecondaryElementType());
__.out(">");

} else {
    __dl();__.out("this.");

}
__dl();$(__, v.name());
__.out(" = ");
__dl();
if ($if(toNull)) {
    __dl();__.out("null");
} else {
    __dl();__out("new java.util.EnumMap<");
$(__, v.getWrappedElementType());
__.out(",");
$(__, v.getWrappedSecondaryElementType());
__.out(">");
$(__, v.getWrappedElementType());
__.out(">.class");

}__dl();__out(";").ln();
__.out(" ");
} else if ($if(v.isMapType())) {
    __dl();__.ln();
    __dl();
    if ($if(declare)) {
        __dl();$(__, updatableAccessModifier);
        __out(" java.util.Map<");
        $(__, v.getWrappedElementType());
        __out(",");
        $(__, v.getWrappedSecondaryElementType());
        __out(">");
    } else {
        __dl();__out("this.");

    }
__dl();$(__, v.name());
__.out(" = ");
__dl();
if ($if(toNull)) {
    __dl();__.out("null");
} else {
$.dl(); $.out("new java.util.LinkedHashMap<");
$.(__, v.getWrappedElementType());
$.out(" , ");
$.(__, v.getWrappedSecondaryElementType());
$.out(">()");

$.dl(); $.out(";").ln();
$.out("      ");
} else if ($if(v.isGenerateEnumSet())) {
$.dl(); $.ln();
$.dl();
if ($if(declare)) {
$.dl(); $.(__, updatableAccessModifier);  
$.out(" java.util.EnumSet");
$.(__, v.getGenericArgs());
$.out("    ");
}
else {
$.dl(); $.out("this.");
}
$.dl(); $.(__, v.name());
$.out(" = ");
$.dl();
if ($if(toNull)) {
$.dl(); $.out("null");
}
else {
$.dl(); $.out("java.util.EnumSet.noneOf(";
$.(__, v.getElementType());
$.out(".class")");
}
$.dl(); $.out(";").ln();
$.out("    ");
}
else {
$.dl(); $.ln();
$.out("    ");
$.dl();
if ($if(v.isAttributeBuilder())) {
$.dl(); $.ln();
$.dl();
if ($if(declare)) {
$.dl(); $.(__, updatableAccessModifier);  
$.out(" java.util.List<");
$.(__, final org.immutables.value.processor.meta.AttributeBuilderDescriptor

n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
$(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());

    __.out(">");

} else {
    __.dl();__.out("this.");

} __.dl();$(__, v.name());
___.out(" = ");
__.dl();
if ($if(toNull)) {
    __.dl();__.out("null");
} else {
    __.dl();__.out("new java.util.ArrayList<");
    {final org.immutables.value.processor.meta.AttributeBuilderDescriptor
n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
$(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());

} __.out("()");

} __.dl();__.out(";").ln();
___.out(" ");

} else {
    __.dl();__.ln();
    __.dl();
    if ($if(declare)) {
        __.dl();$(__, updatableAccessModifier);
        ___.out(" java.util.List");
        $(__, v.getGenericArgs());
        ___.out(" ");
    } else {
        __.dl();__.out("this.");

    } __.dl();$(__, v.name());
    ___.out(" = ");
    __.dl();
    if ($if(toNull)) {
        __.dl();__.out("null");

}
} else {
    // Output the new ArrayList
    __.dl(); __.out("new java.util.ArrayList");
    $(__, v.getGenericArgs());
    __.out("()");

    __.dl(); __.out(";").ln();
    __.out("    ");

    __.dl(); __.ln();
    __.out("      ");

    __.dl(); __.ln();
    __.out("    ");

} else {
    __.dl(); __.ln();
    __.out("    ");

} __.dl(); __.ln();

// Check if generateSortedSet is true
if ($if(v.isGenerateSortedSet())) {
    __.dl(); __.ln();
    __.dl();
    if ($if(declare)) {
        __.dl(); $(__, updatableAccessModifier);
        __.out(" ");
        $(__, guava);
        __.out(".collect.ImmutableSortedSet.Builder");
        $(__, v.getGenericArgs());
        __.out(" ");
    }
    else {
        __.dl();
    }
}

} else {
    __.dl(); __.out("this.");

} __.dl(); $(__, v.name());
___.out(" = ");
___.dl();
if ($if(toNull)) {
    __.dl(); __.out("null");
}
else {
    __.dl(); $(__, guava);
    __.out(".collect.ImmutableSortedSet.");
    __.dl();
    if ($if(v.hasNaturalOrder())) {
        __.dl(); __.out("naturalOrder");
    }
}

}
} else {
    __.dl();__.out("reverseOrder");

}

__.dl();__.out("()");

}___.dl();__.out(";").ln();
__.dl();
} else if ($if(v.isGenerateSortedMultiset())) {
    __.dl();__.ln();
    __.dl();
    if ($if(declare)) {
        __.dl();$(__, updatableAccessModifier);
        __.out(" ");
        __.dl();$(__, guava);
        __.out(".collect.ImmutableSortedMultiset.Builder");
        __.dl();$(__, v.getGenericArgs());
        __.out(" ");
    } else {
        __.dl();__.out("null");
    }

} else if ($if(toNull)) {
    __.dl();__.out("null");

} else {
    __.dl();$(__, guava);
    __.out(".collect.ImmutableSortedMultiset.");
    __.dl();
    if ($if(v.hasNaturalOrder())) {
        __.dl();__.out("naturalOrder");
    } else {
        __.dl();__.out("reverseOrder");
    }

}___.dl();__.out("(");

}___.dl();__.out(";").ln();
__.dl();__.out(" ");
} else if ($if(v.isCustomCollectionType())) {
if ($if(declare)) {
    __.dl();$(__, updatableAccessModifier);
    __.out(" ");
    $(__, v.getRawType());
    __.out(" .Builder");
    $(__, v.getGenericArgs());
    __.out(" ");
} else {
    __.dl();__.out("this.");
}

$(__, v.name());
__out(" = ");
__dl();
if ($if(toNull)) {
    __.dl();__.out("null");
} else {
    __.dl();$(__, v.getRawType());
    __.out(" .builder()");
}

__dl();__out(";").ln();
__out(" ");
} else if ($if(v.isCollectionType())) {
    __.dl();__.ln();
    __out(" ");
    __.dl();
    if ($if(v.isAttributeBuilder())) {
        __.dl();__.ln();
        __.out(" ");
    }
    else if ($if(v.getAttributeBuilderDescriptor())) {
        __.dl();__.ln();
        __.out(" ");
        __.dl();
        if ($if(declare)) {
            __.dl();$(__, updatableAccessModifier);
            __.out(" ");
            $(__, guava);
            __.out(" .collect.Immutable");
            $(__, v.getRawCollectionType());
            __.out(" .Builder<");
            final org.immutables.value.processor.meta.AttributeBuilderDescriptor
            n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
            $(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
        }
        __.out(">");
    }
else {
    $(__, guava);
    __out(".collect.Immutable");
    __out($(__, v.getRawCollectionType()).".builder()");
}

if ($if(toNull)) {
    __out("null");
} else {
    if ($if(declare)) {
        $(__, updatableAccessModifier);
        __out(" ");
        $(__, guava);
        __out(".collect.Immutable");
        __out($(__, v.getGenericArgs()).".Builder");
        __out(" ");
    } else {
        __out("this.");
    }
}

if ($if(toNull)) {
    __out("null");
} else {
    $(__, guava);
    __out(".collect.Immutable");
    __out($(__, v.getRawCollectionType()).".builder()");
}
$(__, guava);
  __.out(".collect.ImmutableSortedMap.Builder");
$(__, v.getGenericArgs());
  __.out(" ");
}

} else {
  __.dl();___.out("this.");
}

  __.dl();$(__, v.name());
  __.out(" = ");
  __.dl();
if ($if(toNull)) {
  __.dl();___.out("null");
}

} else {
  __.dl();$(__, guava);
  __.out(".collect.ImmutableSortedMap.");
  __.dl();
if ($if(v.hasNaturalOrder())) {
  __.dl();___.out("naturalOrder");
}

} else {
  __.dl();___.out("reverseOrder");
}

  __.dl();___.out("()");
}

  __.dl();___.out(";").ln();
  __.out(" ");
} else if ($if(v.isMapType())) {
  __.dl();___.ln();
  __.dl();
if ($if(declare)) {
  __.dl();$(__, updatableAccessModifier);
  __.out(" ");
$(__, guava);
  __.out(".collect.Immutable");
$(__, v.getRawMapType());
  __.out(".Builder");
$(__, v.getGenericArgs());
  __.out(" ");
}

} else {
  __.dl();___.out("this.");
}

}
$(__, accessModifier);
__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
__dl();
if ($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
  __dl();__out("@javax.annotation.Nullable ");
}
__dl();
$___.v.getType();
__out(" ");
$___.v.name();
__out(";");__ln();
__out(" ");
}
else {
__dl();__ln();
__out("this.");
$___.v.name();
__out(" = null;");__ln();
__out(" ");
}
__dl();__ln();
__out(" ");
}
__dl();__ln();
__dl();
};

org.immutables.generator.Templates.Invokable createBuilderForCollection() { return createBuilderForCollection; }

private final org.immutables.generator.Templates.Invokable createBuilderForCollection = new FragmentDispatch(3,
77);

void _t77__createBuilderForCollection(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(1));
final java.lang.String variableName = __.param(2).toString();
__ln();
__dl();
if ($(a.isMapType())) {
  __dl();__ln();
  __out(" ");
  __dl();
  if ($(type.isGenerateJdkOnly(), or, a.typeKind().isSortedKind())) {
    __dl();__ln();
    __out("java.util.Map");
  }
}
$(__, a.getGenericArgs());
  __.out(" ");
$(__, variableName);
  __.out(" = new java.util.LinkedHashMap");
$(__, a.getGenericArgs());
  __.out("();\n");
  __.out(" ");
}
else {
  __.dl();___.ln();
$(__, guava);
  __.out(".collect.Immutable");
$(__, a.getRawMapType());
  __.out(".Builder");
$(__, a.getGenericArgs());
  __.out(" ");
$(__, variableName);
  __.out(" = ");
$(__, guava);
  __.out(".collect.Immutable");
$(__, a.getRawMapType());
  __.out(".builder();\n");
  __.out(" ");
}
  __.dl();___.ln();
} else if ($if(a.isCollectionType())) {
  __.dl();___.ln();
  __.dl();
  if ($if(a.isCustomCollectionType())) {
    __.dl();___.ln();
    $(__, a.getRawType());
    __.out(".Builder");
    $(__, a.getGenericArgs());
    __.out(" ");
    $(__, variableName);
    __.out(" = ");
    $(__, a.getRawType());
    __.out(".builder();\n");
    __.out(" ");
  } else if ($if($(type.isGenerateJdkOnly(), or, a.typeKind().isSortedKind()))) {
    __.dl();___.ln();
    __.dl();
    $(__, a.getRawType());
    __.out(".builder();\n");
    __.out(" ");
  } else if ($if($(type.isGenerateJdkOnly(), or, a.typeKind().isSortedKind()))) {
    __.dl();___.ln();
    __.dl();
    $(__, a.getRawType());
    __.out(".builder();\n");
    __.out(" ");
  } else {
    __.dl();___.ln();
    __.dl();
    __.dl();
    $(__, a.getRawType());
    __.out("List");
    __.out(".builder();\n");
    __.out(" ");
  }
}
$(__, a.getGenericArgs());
  __.out("();").ln();
  __.out("  ");
}

} else {
  __.dl();___.ln();
  $___.guava();
  __.out(".collect.Immutable");
  $(___, a.getRawCollectionType());
  __.out(".Builder");
  $(___, a.getGenericArgs());
  __.out("  ");
  $(___, variableName);
  __.out(" = ");
  $(___, guava);
  __.out(".collect.Immutable");
  $(___, a.getRawCollectionType());
  __.out(".builder();").ln();
  __.out("  ");
}

___.dl();___.ln();

}
___.dl();___.ln();
___.dl();
}

org.immutables.generator.Templates.Invokable createBuiltCollection() { return createBuiltCollection; }

private final org.immutables.generator.Templates.Invokable createBuiltCollection = new FragmentDispatch(3, 78);

void _t78__createBuiltCollection(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueType type = __.cast(__.param(0));
  final org.immutables.value.processor.meta.ValueAttribute a = __.cast(__.param(1));
  final java.lang.String variableName = __.param(2).toString();
  __.output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();___.ln();
      ___.dl();
      if ($if($(a.isMapType(), or, a.isCollectionType()))) {
        __.dl();___.ln();
        __.out("  ");
        __.dl();
        if ($if($(type.isGenerateJdkOnly(), or, a.typeKind().isSortedKind()))) {
          __.dl();___.ln();
          __.out("  ");
          ___.dl();
          if ($if($(type.isGenerateJdkOnly(), or, a.typeKind().isSortedKind()))) {
            __.dl();___.ln();
            __.out("  ");
            ___.dl();
            ___.ln();
            __.out("  ");
org.immutables.generator.Templates.Invokable serialVersionUID() { return serialVersionUID; }
private final org.immutables.generator.Templates.Invokable serialVersionUID = new FragmentDispatch(1, 79);
void _t79__serialVersionUID(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.Long serialVersion = $cast(type.serialVersionUID());
  if ($if(serialVersion)) {
    private static final long serialVersionUID = $(__, literal, serialVersion);
    __.ln();
    _it1.index++;
    _it1.first = false;
  }
}
// Suppress covariant cast for optional values
private final org.immutables.generator.Templates.Invokable suppressCovariantCastForOptional = new FragmentDispatch(1, 80);
void _t80__suppressCovariantCastForOptional(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
    if ($if(a.isSafeUncheckedCovariantCast())) {
        @SuppressWarnings("unchecked") // safe covariant cast
    }
}

// Suppress any covariant cast for optional values
private final org.immutables.generator.Templates.Invokable suppressAnyCovariantCastForOptional = new FragmentDispatch(1, 81);
void _t81__suppressAnyCovariantCastForOptional(org.immutables.generator.Templates.Invokation __) {
    final java.lang.Iterable<org.immutables.value.processor.meta.ValueAttribute> as = $cast(__.param(0));
    for (final org.immutables.value.processor.meta.ValueAttribute a : $in(as)) {
        if ($if(a.isSafeUncheckedCovariantCast())) {
            @SuppressWarnings("unchecked") // safe covariant cast
        }
        _it1.index++;
        _it1.first = false;
    }
}

// Print each line
private final org.immutables.generator.Templates.Invokable eachLine = new FragmentDispatch(1, 82);
void _t82__eachLine(org.immutables.generator.Templates.Invokation __) {
    // Each line
}
final java.lang.Iterable<java.lang.Object> lines = \$cast(\$___.param(0));
{
final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final java.lang.Object l : \$in(lines)) {
    \$___.dl();\$___.ln();
    \$___.ln();
    \$___.dl(); _it1.index++;
    _it1.first = false;
}
\$___.dl();\$___.dl();
}

org.immutables.generator.Templates.Invokable atGenerated() { return atGenerated; }
private final org.immutables.generator.Templates.Invokable atGenerated = new FragmentDispatch(1, 83);
void _t83__atGenerated(org.immutables.generator.Templates.Invokation __) {
    \$___.dl();final org.immutables.value.processor.meta.ValueType type = \$cast(\$___.param(0));
    \$___.ln();
    \$___.dl();
    if (\$if($(type, allowsClasspathAnnotation, "org.immutables.value.Generated"))) {
        \$___.dl();\$___.ln();
        \$___.out("@org.immutables.value.Generated(from = ");
        \$___.out(type.typeAbstract().relativeRaw());
        \$___.out("", generator = "Immutables")\"\).ln();
    }
    \$___.dl();\$___.ln();
    \$___.dl();
}

org.immutables.generator.Templates.Invokable atElementNullable() { return atElementNullable; }
private final org.immutables.generator.Templates.Invokable atElementNullable = new FragmentDispatch(1, 84);
void _t84__atElementNullable(org.immutables.generator.Templates.Invokation __) {
    \$___.dl();final org.immutables.value.processor.meta.ValueAttribute a = \$cast(\$___.param(0));
    \$___.dl();
    if (\$if($(not, a.nullElements.ban()))) {
        \$___.dl();final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = \$cast(a);
        \$___.dl();
        if (\$if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
            \$___.dl();\$___.ln();
            \$___.out("@javax.annotation.Nullable");
        }
    }
    \$___.dl();\$___.ln();
    \$___.dl();
}
org.immutables.generator.Templates.Invokable topSimplePrefix() { return topSimplePrefix; }
private final org.immutables.generator.Templates.Invokable topSimplePrefix = new FragmentDispatch(1, 85);
void _t85__topSimplePrefix(org.immutables.generator.Templates.Invocation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueType type = __param(0);
  __dl();
  if ($if(topLevelSimple)) {
    __dl();
    __out($(".
    ");
    } else {
    __dl();
    __out($(".
    ");
  }
  __dl();
}

org.immutables.generator.Templates.Invokable maybeCopyOf() { return maybeCopyOf; }
private final org.immutables.generator.Templates.Invokable maybeCopyOf = new FragmentDispatch(2, 86);
void _t86__maybeCopyOf(org.immutables.generator.Templates.Invocation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueAttribute v = __param(0);
  final java.lang.String expression = __param(1).toString();
  __dl();
  if ($if(v.isGenerateImmutableCopyOf)) {
    __dl();
    __out($("immutableCopyOf(");
    $(__, expression);
    __out($("\)");
  } else {
    __dl();
    __out($(__, expression);
  }
  __dl();
}

org.immutables.generator.Templates.Invokable maybeNonNullValue() { return maybeNonNullValue; }
private final org.immutables.generator.Templates.Invokable maybeNonNullValue = new FragmentDispatch(2, 87);
void _t87__maybeNonNullValue(org.immutables.generator.Templates.Invocation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueAttribute v = __param(0);
  final java.lang.String expression = __param(1).toString();
  __dl();
  if ($if($(v.isPrimitive(), or, v.isNullable()))) {
    __dl();
    __out($(__, expression);
  } else {
    __dl();
    __out($(__, requireNonNull, v.containingType);
    __out($("\)");
    $(__, expression);
  }
  __dl();
}
```java
__out(", \"\"");
$___.v.name();
__out("\")
}
__dl();__dl();
}

org.immutables.generator.Templates.Invokable builderReturnThis() { return builderReturnThis; }
private final org.immutables.generator.Templates.Invokable builderReturnThis = new FragmentDispatch(1, 88);
void _t88__builderReturnThis(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
__dl();if ($if(type.getInnerBuilder().isExtending)) {
__dl();$___.type.typeBuilder();
__out("\")
}
__dl();__out("this");
__dl();
}

org.immutables.generator.Templates.Invokable builderReturnType() { return builderReturnType; }
private final org.immutables.generator.Templates.Invokable builderReturnType = new FragmentDispatch(1, 89);
void _t89__builderReturnType(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
__dl();if ($if(type.getInnerBuilder().isExtending)) {
__dl();$___.type.typeBuilder();
} else {
__dl();$___.type.typeBuilder().simple();
$___.type.generics().args();
}
__dl();__dl();
}

org.immutables.generator.Templates.Invokable attributeBuilderBuilderType() { return attributeBuilderBuilderType; }
private final org.immutables.generator.Templates.Invokable attributeBuilderBuilderType = new FragmentDispatch(1, 90);
void _t90__attributeBuilderBuilderType(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.value.processor.meta.AttributeBuilderDescriptor n = $cast(__.param(0));
$___.n.getQualifiedBuilderTypeName();
__dl();
}
```
```java
org.immutables.generator.Templates.Invokable createAttributeBuilder() { return createAttributeBuilder; }

private final org.immutables.generator.Templates.Invokable createAttributeBuilder = new FragmentDispatch(1, 91);
void _t91__createAttributeBuilder(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.AttributeBuilderDescriptor n = $cast(__.param(0));
  __.out("(");
  __dl();
}

org.immutables.generator.Templates.Invokable validated() { return validated; }
private final org.immutables.generator.Templates.Invokable validated = new FragmentDispatch(3, 92);
void _t92__validated(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.Boolean qualified = $if(__.param(1));
  final java.lang.String expression = __.param(2).toString();
  __dl();
  if ($if(type.isUseValidation())) {
    __dl();
    if ($if(qualified)) {
      __dl();$(__, type.typeImmutable().relativeRaw());
      __.out(".");
    }
    __dl();
    __.out("validate(");
    $(__, expression);
    __.out(")");
  } else {
    __dl();$(__, expression);
  }
  __dl();
}

org.immutables.generator.Templates.Invokable builderInitAccess() { return builderInitAccess; }
private final org.immutables.generator.Templates.Invokable builderInitAccess = new FragmentDispatch(1, 93);
void _t93__builderInitAccess(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  __dl();
  if ($if(($if(a.isBuilderParameter, or, a.isBuilderSwitcher())))) {
    __dl();
    if ($if(a.containingType.kind().isFactory())) {
      __dl();
      __.out("private ");
    }
  }
  __dl();
  __dl();
}
```

org.immutables.generator.Templates.Invokable invokeSuper() { return invokeSuper; }
private final org.immutables.generator.Templates.Invokable invokeSuper = new FragmentDispatch(1, 94);
void _t94__invokeSuper(org.immutables.generator.Templates.Invocation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueAttribute a = __.cast(__.param(0));
  { final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    final java.lang.String di = __.cast(a.defaultInterface());
    __dl();
    if ($if(di)) {
      __dl();
      __dl();
      __dl();
      __dl();
      __dl();
      __dl();
      __dl();
      __dl();
      __dl();
      __dl();
    }
    __dl();
    _it1.index++;
    _it1.first = false;
  }
  __dl();
  __dl();
};

org.immutables.generator.Templates.Invokable invokeSuperQualified() { return invokeSuperQualified; }
private final org.immutables.generator.Templates.Invokable invokeSuperQualified = new FragmentDispatch(1, 95);
void _t95__invokeSuperQualified(org.immutables.generator.Templates.Invocation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueAttribute a = __.cast(__.param(0));
  __dl();
  __out("super");
};

org.immutables.generator.Templates.Invokable sourceDocRef() { return sourceDocRef; }
private final org.immutables.generator.Templates.Invokable sourceDocRef = new FragmentDispatch(1, 96);
void _t96__sourceDocRef(org.immutables.generator.Templates.Invocation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueAttribute a = __.cast(__.param(0));
  __dl();
  __out("@link ");
  __dl();
  __out(""");
  __dl();
  __out(""");
  __dl();
};
org.immutables.generator.Templates.Invokable sourceDocLink() { return sourceDocLink; }
private final org.immutables.generator.Templates.Invokable sourceDocLink = new FragmentDispatch(2, 97);
void _t97__sourceDocLink(org.immutables.generator.Templates.Invokation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  final java.lang.String label = __.param(1).toString();

  __dl();
  if ($if(a.containingType.kind().isValue())) {
    __dl();
    __out("{\@link ");
    $(__, a.containingType.typeDocument().relativeRaw());
    __out("#”);
    $(__, a.names.get);
    __out("( ) “);
    $(__, label);
    __out("}”);
  }

  __dl();
}

org.immutables.generator.Templates.Invokable optionalGet() { return optionalGet; }
private final org.immutables.generator.Templates.Invokable optionalGet = new FragmentDispatch(1, 98);
void _t98__optionalGet(org.immutables.generator.Templates.Invokation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));

  __dl();
  if ($if(a.isJdkSpecializedOptional())) {
    __dl();
    __out("getAs”);
    $(__, toUpper, a.getElementType());
  }

  __dl();
  else {
    __dl();
    __out("get”);
  }
org.immutables.generator.Templates.Invokable optionalPresent() { return optionalPresent; }
private final org.immutables.generator.Templates.Invokable optionalPresent = new FragmentDispatch(1, 101);
void _t101__optionalPresent(org.immutables.generator.Templates.Invokation __) {
    __dl(); final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
    __dl();
    if ($if($(a.isFugueOptional(), or, a.isJavaslangOptional()))) {
        __dl(); __out("isDefined");
    } else {
        __dl(); __out("isPresent");
    }
    __dl(); __out("()");
    __dl();
}

org.immutables.generator.Templates.Invokable unwrappedOptionalType() { return unwrappedOptionalType; }
private final org.immutables.generator.Templates.Invokable unwrappedOptionalType = new FragmentDispatch(1, 102);
void _t102__unwrappedOptionalType(org.immutables.generator.Templates.Invokation __) {
    __dl(); final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
    __dl();
    if ($if($(a.isOptionalType(), and, a.isOptionalAcceptNullable()))) {
        final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(a);
        __dl(); if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
            __dl(); __out("@javax.annotation.Nullable");
        } else {
            __dl(); __out("@javax.annotation.Nullable");
        }
    } else {
        __dl();
    }
    $(__, a.getWrappedElementType());
} else {
    __dl(); $(__, a.getUnwrappedElementType());
}
org.immutables.generator.Templates.Invokable atCanIgnoreReturnValue() { return atCanIgnoreReturnValue; }
private final org.immutables.generator.Templates.Invokable atCanIgnoreReturnValue = new FragmentDispatch(1, 103);

void _t103__atCanIgnoreReturnValue(org.immutables.generator.Templates.Invokation __) {
  __.dl();
  final org.immutables.value.processor.meta.HasStyleInfo s = $cast(__.param(0));
  __.dl();
  if ($if($(s, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
    __.dl();
    __.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
  __.dl();
}

org.immutables.generator.Templates.Invokable atNullable() { return atNullable; }
private final org.immutables.generator.Templates.Invokable atNullable = new FragmentDispatch(1, 104);

void _t104__atNullable(org.immutables.generator.Templates.Invokation __) {
  __.dl();
  final org.immutables.value.processor.meta.HasStyleInfo s = $cast(__.param(0));
  __.dl();
  if ($if($(s, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
    __.dl();
    __.out("@javax.annotation.Nullable ");
  }
  __.dl();
}

org.immutables.generator.Templates.Invokable atVar() { return atVar; }
private final org.immutables.generator.Templates.Invokable atVar = new FragmentDispatch(1, 105);

void _t105__atVar(org.immutables.generator.Templates.Invokation __) {
  __.dl();
  final org.immutables.value.processor.meta.HasStyleInfo s = $cast(__.param(0));
  __.dl();
  if ($if($(s, allowsClasspathAnnotation, "com.google.errorprone.annotations.Var"))) {
    __.dl();
    __.out("@com.google.errorprone.annotations.Var ");
  }
  __.dl();
}

org.immutables.generator.Templates.Invokable disambiguateFieldRep() { return disambiguateFieldRep; }
private final org.immutables.generator.Templates.Invokable disambiguateFieldRep = new FragmentDispatch(3, 106);

void _t106__disambiguateFieldRep(org.immutables.generator.Templates.Invokation __) {
  __.dl();
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.String name = __.param(1).toString();
  final java.lang.String replacer = __.param(2).toString();
  $(__, name);
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getImplementedAttributes())) {
     if ($if($(v.name(), eq, name))) {
       $__._it1.$(_it1, 0, __.param(0), v).toString();
     }
   }
  }
}
org.immutables.generator.Templates.Invokable disambiguateField() { return disambiguateField; }
private final org.immutables.generator.Templates.Invokable disambiguateField = new FragmentDispatch(2, 107);
void _t107__disambiguateField(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueType type = __.param(0);
  final java.lang.String name = __.param(1).toString();
  $(_.name);
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getImplementedAttributes())) {
      if ($(v.name(), eq, name)) {
        __.dl();__.out("$$");
        __.dl();_it1.index++;
        _it1.first = false;
      }
    }
  }
};
org.immutables.generator.Templates.Invokable disambiguateAccessor() { return disambiguateAccessor; }
private final org.immutables.generator.Templates.Invokable disambiguateAccessor = new FragmentDispatch(2, 108);
void _t108__disambiguateAccessor(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueType type = __.param(0);
  final java.lang.String name = __.param(1).toString();
  $(_.name);
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getImplementedAttributes())) {
      if ($(v.names.get, eq, name)) {
        __.dl();__.out("$$");
        __.dl();_it1.index++;
        _it1.first = false;
      }
    }
  }
};
org.immutables.generator.Templates.Invokable deprecation() { return deprecation; }
private final org.immutables.generator.Templates.Invokable deprecation = new FragmentDispatch(1, 109);
void _t109__deprecation(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueAttribute a = __.param(0);
  if (a.deprecated) {
    __.dl();__.out("@Deprecated");
  }
}
org.immutables.generator.Templates.Invokable typeDeprecation() { return typeDeprecation; }
private final org.immutables.generator.Templates.Invokable typeDeprecation = new FragmentDispatch(1, 110);
void _t110__typeDeprecation(org.immutables.generator.Templates.Invokation __) {
    __dl();
    final org.immutables.value.processor.meta.ValueType t = $cast(__.param(0));
    __dl();
    if ($if(t.isDeprecated())) {
        __dl();
        __out("@Deprecated");
    }
    __dl();
}

org.immutables.generator.Templates.Invokable varargsSafety() { return varargsSafety; }
private final org.immutables.generator.Templates.Invokable varargsSafety = new FragmentDispatch(1, 111);
void _t111__varargsSafety(org.immutables.generator.Templates.Invokation __) {
    __dl();
    final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
    __dl();
    if ($if($(a.isNonRawElementType(), or, a.hasTypeVariables))) {
        __dl();
        __out("@SafeVarargs @SuppressWarnings("varargs")");
    }
    __dl();
}

org.immutables.generator.Templates.Invokable varargsSafetyAbstract() { return varargsSafetyAbstract; }
private final org.immutables.generator.Templates.Invokable varargsSafetyAbstract = new FragmentDispatch(1, 112);
void _t112__varargsSafetyAbstract(org.immutables.generator.Templates.Invokation __) {
    __dl();
    final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
    __dl();
    if ($if($(a.isNonRawElementType(), or, a.hasTypeVariables))) {
        __dl();
        __out("@SuppressWarnings("varargs")");
    }
    __dl();
}

org.immutables.generator.Templates.Invokable functionClass() { return functionClass; }
private final org.immutables.generator.Templates.Invokable functionClass = new FragmentDispatch(0, 113);
void _t113__functionClass(org.immutables.generator.Templates.Invokation __) {
    __dl();
    if (classpath.isJava8()) {
        __dl();
        __out("java.util.function.Function");
    }
}
org.immutables.generator.Templates.Invokable overrideJsonDeserialize() { return overrideJsonDeserialize; }
private final org.immutables.generator.Templates.Invokable overrideJsonDeserialize = new FragmentDispatch(1, 114);
void _t114__overrideJsonDeserialize(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __.dl();
    if ($if(type.isJacksonDeserialized())) {
        __.dl();__out("@com.fasterxml.jackson.databind.annotation.JsonDeserialize");
    }
    __.dl();__dl();
};

org.immutables.generator.Templates.Invokable overrideJsonTypeInfo() { return overrideJsonTypeInfo; }
private final org.immutables.generator.Templates.Invokable overrideJsonTypeInfo = new FragmentDispatch(1, 115);
void _t115__overrideJsonTypeInfo(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __.dl();
    if ($if(type.isJacksonJsonTypeInfo())) {
        __.dl();__out("@com.fasterxml.jackson.annotation.JsonTypeInfo(use=com.fasterxml.jackson.annotation.JsonTypeInfo.Id.NONE)");
    }
    __.dl();__dl();
};

org.immutables.generator.Templates.Invokable jsonIgnore() { return jsonIgnore; }
private final org.immutables.generator.Templates.Invokable jsonIgnore = new FragmentDispatch(1, 116);
void _t116__jsonIgnore(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __.dl();
    if ($if(type.isGenerateJacksonIngoreFields())) {
        __.dl();__out("@com.fasterxml.jackson.annotation.JsonIgnore");
    }
    __.dl();__dl();
};

org.immutables.generator.Templates.Invokable castObject() { return castObject; }

private final org.immutables.generator.Templates.Invokable castObject = new FragmentDispatch(1, 117);
void _t117__castObject(org.immutables.generator.Templates.Invokation __) {
    __.dl();final java.lang.String typename = __.param(0).toString();
    __.dl();
    if ($if($(typename, ne, "java.lang.Object"))) {
        __.dl();__.out("(");
        $(__, typename);
        __.out(" ");
    }
    __.dl();__.dl();
};
org.immutables.generator.Templates.Invokable maybeMasked() { return maybeMasked; }
private final org.immutables.generator.Templates.Invokable maybeMasked = new FragmentDispatch(2, 118);
void _t118__maybeMasked(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
    final java.lang.String value = __.param(1).toString();
    __.dl();
    if ($if(a.getRedactedMask())) {
        __.dl();$(__, literal.string, a.getRedactedMask());
    } else {
        __.dl();$(__, value);
    }
    __.dl();__.dl();
};
org.immutables.generator.Templates.Invokable hiddenMutableState() { return hiddenMutableState; }
private final org.immutables.generator.Templates.Invokable hiddenMutableState = new FragmentDispatch(1, 119);
void _t119__hiddenMutableState(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __.dl();
    if ($if($(type, allowsClasspathAnnotation, "com.google.errorprone.annotations.Immutable"))) {
        __.dl();__.out("@SuppressWarnings("Immutable")");
    }
    __.dl();__.dl();
};
private class FragmentDispatch extends org.immutables.generator.Templates.Fragment {
    private final int index;
    FragmentDispatch(int arity, int index){
        super(arity);
        this.index = index;
    }
    @Override public void run(org.immutables.generator.Templates.Invocation invocation){
        switch (index){
        }
case 0: _t0__generate(invokation); break;
case 1: _t1__annotationsWhenTopLevel(invokation); break;
case 2: _t2__packageWhenTopLevel(invokation); break;
case 3: _t3__generateEnclosing(invokation); break;
case 4: _t4__generateImmutable(invokation); break;
case 5: _t5__extendsImplements(invokation); break;
case 6: _t6__generateSerialization(invokation); break;
case 7: _t7__generateWithInterface(invokation); break;
case 8: _t8__generateJsonWithUnsupported(invokation); break;
case 9: _t9__generateInterning(invokation); break;
case 10: _t10__generateConstruction(invokation); break;
case 11: _t11__generateSingletonInstance(invokation); break;
case 12: _t12__generateImmutableCopyOf(invokation); break;
case 13: _t13__generateLazyValues(invokation); break;
case 14: _t14__castBuildStagedBuilder(invokation); break;
case 15: _t15__factoryBuildStageBuilderType(invokation); break;
case 16: _t16__telescopicBuilderImplementInterfaces(invokation); break;
case 17: _t17__generateTelescopicBuilderInterfaces(invokation); break;
case 18: _t18__generateBuilder(invokation); break;
case 19: _t19__builderReturnValue(invokation); break;
case 20: _t20__checkRequiredOrThrow(invokation); break;
case 21: _t21__buildFromAttributeNullableSupertype(invokation); break;
case 22: _t22__buildFromAttribute(invokation); break;
case 23: _t23__returnFactoryBuild(invokation); break;
case 24: _t24__valueFromSuper(invokation); break;
case 25: _t25__maybeToBuilder(invokation); break;
case 26: _t26__valueToBuilder(invokation); break;
case 27: _t27__valueFrom(invokation); break;
case 28: _t28__valueFromValue(invokation); break;
case 29: _t29__valueFromValueNoOptional(invokation); break;
case 30: _t30__deepCopyOf(invokation); break;
case 31: _t31__valueFromBuilder(invokation); break;
case 32: _t32__valueFromBuilderAlt(invokation); break;
case 33: _t33__emptyImmutableInstance(invokation); break;
case 34: _t34__generateConstructorNoAttributes(invokation); break;
case 35: _t35__generateConstructorDefaultAttributes(invokation); break;
case 36: _t36__generateImmutableMembers(invokation); break;
case 37: _t37__generateConstructor(invokation); break;
case 38: _t38__buildFromMandatoryAttribute(invokation); break;
case 39: _t39__dynamicFromModifiableCheck(invokation); break;
case 40: _t40__generateSafeDerivedShim(invokation); break;
case 41: _t41__constructorAcceptTypeNoOptional(invokation); break;
case 42: _t42__constructorAcceptType(invokation); break;
case 43: _t43__generateJacksonMapped(invokation); break;
case 44: _t44__generateAccessorMethods(invokation); break;
case 45: _t45__generateObjectUtilityMethods(invokation); break;
case 46: _t46__generateToString(invokation); break;
case 47: _t47__generateDerivedConstruction(invokation); break;
case 48: _t48__generateAfterConstruction(invokation); break;
case 49: _t49__generateReturnCopy(invokation); break;
case 50: _t50__generateReturnCopyRaw(invokation); break;
case 51: _t51__generateReturnCopyContextual(invokation); break;
case 52: _t52__generateReturnBuilderConstructed(invokation); break;
case 53: _t53__generateCopyMethods(invokation); break;
case 54: _t54__defaultAnnotationValues(invokation); break;
case 55: _t55__forwardingEnclosingFactoryMethods(invokation); break;
case 56: _t56__javadocBuilderExample(invokation); break;
case 57: _t57__immutableImplementationType(invokation); break;
case 58: _t58__immutableCollectionBuild(invokation); break;
case 59: _t59__immutableCollectionCopyOf(invokation); break;
case 60: _t60__immutableCollectionCopyOfSafe(invokation); break;
case 61: _t61__equalsAttribute(invokation); break;
case 62: _t62__arrayAsList(invokation); break;
case 63: _t63__arrayAsListSecondary(invokation); break;
case 64: _t64__primitiveHashCode(invokation); break;
case 65: _t65__objectsEqual(invokation); break;
case 66: _t66__objectsHashCode(invokation); break;
case 67: _t67__requireNonNull(invokation); break;
case 68: _t68__objectsUtility(invokation); break;
case 69: _t69__attributeBuilderTransformUtilities(invokation); break;
case 70: _t70__convertToBuilderType(invokation); break;
case 71: _t71__convertToValueType(invokation); break;
case 72: _t72__copyBuilderListBody(invokation); break;
case 73: _t73__collectionUtility(invokation); break;
case 74: _t74__javadocGenerics(invokation); break;
case 75: _t75__defineOrResetBuildingField(invokation); break;
case 76: _t76__defineOrResetBuildingFieldAlt(invokation); break;
case 77: _t77__createBuilderForCollection(invokation); break;
case 78: _t78__createBuiltCollection(invokation); break;
case 79: _t79__serialVersionUID(invokation); break;
case 80: _t80__suppressCovariantCastForOptional(invokation); break;
case 81: _t81__suppressAnyCovariantCastForOptional(invokation); break;
case 82: _t82__eachLine(invokation); break;
case 83: _t83__atGenerated(invokation); break;
case 84: _t84__atElementNullable(invokation); break;
case 85: _t85__topSimplePrefix(invokation); break;
case 86: _t86__maybeCopyOf(invokation); break;
case 87: _t87__maybeNonNullValue(invokation); break;
case 88: _t88__builderReturnThis(invokation); break;
case 89: _t89__builderReturnType(invokation); break;
case 90: _t90__attributeBuilderBuilderType(invokation); break;
case 91: _t91__createAttributeBuilder(invokation); break;
case 92: _t92__validated(invokation); break;
case 93: _t93__builderInitAccess(invokation); break;
case 94: _t94__invokeSuper(invokation); break;
case 95: _t95__invokeSuperQualified(invokation); break;
case 96: _t96__sourceDocRef(invokation); break;
case 97: _t97__sourceDocLink(invokation); break;
case 98: _t98__optionalGet(invokation); break;
case 99: _t99__optionalEmpty(invokation); break;
case 100: _t100__optionalOf(invokation); break;
case 101: _t101__optionalPresent(invokation); break;
case 102: _t102__unwrappedOptionalType(invokation); break;
case 103: _t103__atCanIgnoreReturnValue(invokation); break;
case 104: _t104__atNullable(invokation); break;
case 105: _t105__atVar(invokation); break;
case 106: _t106__disambiguateFieldRep(invokation); break;
case 107: _t107__disambiguateField(invokation); break;
case 108: _t108__disambiguateAccessor(invokation); break;
case 109: _t109__deprecation(invokation); break;
case 110: _t110__typeDeprecation(invokation); break;
case 111: _t111__varargsSafety(invokation); break;
case 112: _t112__varargsSafetyAbstract(invokation); break;
case 113: _t113__functionClass(invokation); break;
case 114: _t114__overrideJsonDeserialize(invokation); break;
case 115: _t115__overrideJsonTypeInfo(invokation); break;
case 116: _t116__jsonIgnore(invokation); break;
case 117: _t117__castObject(invokation); break;
case 118: _t118__maybeMasked(invokation); break;
case 119: _t119__hiddenMutableState(invokation); break;
default: break;
}}

*/

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* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$generator$/$PostprocessingMachine.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$GsonMirrors.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$CriteriaMirrors.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$SerialMirrors.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$FromSupertypesModel.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$CachingElements.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$SuppressedWarnings.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$OkJsonMirrors.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$ValueImmutableInfo.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$MongoMirrors.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$CasesMirrors.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$AttributeTypeKind.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$SwitcherModel.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$CustomImmutableAnnotations.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$TreesMirrors.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$SourceNames.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$generator$/$TypeHierarchyCollector.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/$Modifiables.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$BuilderMirrors.java
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* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/STransformers.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/SCriteria.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$generator$/S$Intrinsics.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$generator$/SBuiltins.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$Round.java

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  jar/org/immutables/value/internal/$processor$/meta/$ValueAttribute.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/meta/$ValueAttributeFunctions.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/meta/$ValueType.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/meta/$Depluralizer.java

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  jar/org/immutables/value/internal/$generator$/SourceTypes.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/encode/EncodingInfo.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/encode/TypeExtractor.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-
  jar/org/immutables/value/internal/$processor$/meta/NullabilityAnnotationInfo.java
*/
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$Generics.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/encode/$EncodedElement.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/encode/$Inflater.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$FuncMirrors.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/encode/$Mirrors.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/encode/$Structurizer.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/encode/$Instantiator.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/encode/$Type.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$generator$/$Compiler.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$generator$/$SourceExtraction.java
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* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/meta/$StyleInfo.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/SGsons.java

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To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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Found in path(s):
* /opt/cola/permits/1168236991_1621962039.06/0/netty-resolver-4.1-63-final.jar/META-INF/maven/io.netty/netty-resolver/pom.xml
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Implementation-Title: Netty/Resolver
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.resolver
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.resolver
Implementation-Version: 4.1.63.Final
Built-By: root
Bnd-LastModified: 1617274739124
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)":resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)":resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.resolver;uses="io.netty.util.concurrent";version="4.1.63"
Bundle-Name: Netty/Resolver
Bundle-Version: 4.1.63.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_272
Implementation-URL: https://netty.io/netty-resolver/

Found in path(s):
* /opt/cola/permits/1168236991_1621962039.06/0/netty-resolver-4.1-63-final.jar/META-INF/MANIFEST.MF
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1.1189 gorilla 1.4.2

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1.1191 protobuf v1.25.0

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1.1192 tar 1.29b-1.1

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1.1194 goldmark v1.3.5

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1.1195 deprecated 1.2.13

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%global srname Deprecated
%global pkgname deprecated

Name: python-%{pkgname}
Version: 1.2.13
Release: 1%{?dist}
Summary: Python decorator to deprecate old python classes, functions or methods
License: MIT
URL: https://github.com/tantale/%{pkgname}
Source0: %{pypi_source}
BuildArch: noarch

%description
Python @deprecated decorator to deprecate old python classes,
functions or methods.

%package -n python3-%{pkgname}
Summary: %{summary}
BuildRequires: python3-devel
BuildRequires: python3-setuptools
%{?python_provide:%python_provide python3-%{pkgname}}

%description -n python3-%{pkgname}
Python @deprecated decorator to deprecate old python classes,
functions or methods.

%prep
%autosetup -n %{srname}-%{version}
rm -rf %{pkgname}.egg-info

%build
%py3_build

%install
%py3_install

%files -n python3-%{pkgname}
%license LICENSE.rst
%doc README.md
{%python3_sitelib}/%{pkgname}/
{%python3_sitelib}/%{srcname}-*.egg-info/

%changelog
* Fri Jul 26 2019 Petr Hracek <phracek@redhat.com> - 1.2.6-2
  - Fix python3_sitelib issue

* Fri Jul 26 2019 Petr Hracek <phracek@redhat.com> - 1.2.6-1
  - Initial package

Found in path(s):
* /opt/cola/permits/1240171410_1639768394.67/0/deprecated-1-2-13-tar-gz/Deprecated-1.2.13/python-deprecated.spec
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* /opt/cola/permits/1240171410_1639768394.67/0/deprecated-1-2-13-tar-gz/Deprecated-1.2.13/Deprecated.egg-info/PKG-INFO
* /opt/cola/permits/1240171410_1639768394.67/0/deprecated-1-2-13-tar-gz/Deprecated-1.2.13/PKG-INFO
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* Being respectful of differing viewpoints and experiences
* Gracefully accepting constructive criticism
* Focusing on what is best for the community
* Showing empathy towards other community members

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* Publishing others’ private information, such as a physical or electronic address, without explicit permission
* Other conduct which could reasonably be considered inappropriate in a professional setting

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1.1196 google-auth 2.3.3

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1.1197 go-semver v0.3.0

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* /opt/cola/permits/117793649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8.jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/cola/permits/117793649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8.jar/com/google/errorprone/annotations/NoAllocation.java
* /opt/cola/permits/117793649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8.jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java

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 */

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* /opt/cola/permits/117793649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8.jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
* /opt/cola/permits/117793649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8.jar/com/google/errorprone/annotations/CheckReturnValue.java
* /opt/cola/permits/117793649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8.jar/com/google/errorprone/annotations/DoNotCall.java
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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.1201 python-dateutil 2.7.3-1.ph3

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

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

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1.1208 go-logr-zapr 0.1.0

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* /opt/ws_local/PERMITS_SQL/1075084034_1596044782.67/0/netty-transport-native-unix-common-4-1-51-final-sources-jar/io/netty/channel/unix/package-info.java

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* /opt/ws_local/PERMITS_SQL/1075084034_1596044782.67/0/netty-transport-native-unix-common-4-1-51-final-sources-jar/netty_unix_socket.c
* /opt/ws_local/PERMITS_SQL/1075084034_1596044782.67/0/netty-transport-native-unix-common-4-1-51-final-sources-jar/netty_unix_filedescriptor.h
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sources-jar/io/netty/channel/unix/Errors.java
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sources-jar/io/netty/channel/unix/DomainSocketReadMode.java
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sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
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sources-jar/netty_unix_limits.h
* /opt/ws_local/PERMITS_SQL/1075084034_1596044782.67/0/netty-transport-native-unix-common-4-1-51-final-
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1.1211 proto-google-common-protos 1.17.0
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1.1219 go-openapi-spec 0.19.3

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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)
  assertSerializeYAML(t, license, licenseYAML)
  assertParsesJSON(t, licenseJSON, license)
  assertParsesYAML(t, licenseYAML, 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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package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}
type commonResult struct {
    gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"
            Previous string `json:"previous"
        } `json:"links"
    }
"gophercloud"
err := r.ExtractInto(&s)
if err != nil {
    return "", err
}
return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes
used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful
that everyone is new to this in the beginning. Please reach out for help or ask
for clarification if needed. No question is ever “dumb” or not worth our time
answering.

To begin, go to [Step 1](step-01-introduction.md).
Step 5: Writing the Code
========================

At this point, you should have:

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

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

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

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

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

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

### Adding a Single Field

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

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

### Adding a Single API Call

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

### Adding a Suite of API Calls

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

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

* [https://github.com/gophercloud/gophercloud/pull/584](https://github.com/gophercloud/gophercloud/pull/584)
* [https://github.com/gophercloud/gophercloud/pull/586](https://github.com/gophercloud/gophercloud/pull/586)
* [https://github.com/gophercloud/gophercloud/pull/587](https://github.com/gophercloud/gophercloud/pull/587)
* [https://github.com/gophercloud/gophercloud/pull/594](https://github.com/gophercloud/gophercloud/pull/594)
You can also use the provided [template](https://docs.consumer-tutorial/template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

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

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

**What to Include in a Pull Request**

Each Pull Request should contain the following:

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

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

### Unit Tests

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

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

### Acceptance Tests

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

### Documentation

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

Dealing with Related Pull Requests
----------------------------------

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

There are two methods of handling this:

### Create Independent Pull Requests

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

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

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

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

Advantages of this Method:

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

Disadvantages of this Method:

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

### Create a Chain of Pull Requests

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

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

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

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

Advantages of this Method:

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

Disadvantages of this Method:

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

The choice of method is up to you.

---

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

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks
2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:
1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
--------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It’s Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don’t take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).
	no testing

    import (
        "fmt"
        "net/http"
        "testing"
    
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
    )

    // ListResult provides a single page of RESOURCE results.
    const ListResult = `
    { 
    }`
// GetResult provides a Get result.
const GetResult = `{`
`}
```

// CreateRequest provides the input to a Create request.
const CreateRequest = `{`
`}
```

// UpdateRequest provides the input to an Update request.
const UpdateRequest = `{`
`}
```

// UpdateResult provides an update result.
const UpdateResult = `{`
`}
```

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, `GET`) 
        th.TestHeader(t, r, `Accept`, `application/json`) 
        th.TestHeader(t, r, `X-Auth-Token`, client.TokenID) 
        w.Header().Set(`Content-Type`, `application/json`) 
        w.WriteHeader(http.StatusOK) 
        fmt.Fprintf(w, ListResult) 
    })}
// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "GET")
    th.TestHeader(t, r, "Accept", "application/json")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

    w.Header().Set("Content-Type", "application/json")
    w.WriteHeader(http.StatusOK)
    fmt.Fprintf(w, GetResult)
})
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "POST")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    th.TestJSONRequest(t, r, CreateRequest)

    w.WriteHeader(http.StatusCreated)
    fmt.Fprintf(w, GetResult)
})
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "DELETE")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

    w.WriteHeader(http.StatusNoContent)
})
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "PATCH")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    th.TestJSONRequest(t, r, UpdateRequest)
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
}

package RESOURCE

import {
  "github.com/gophercloud/gophercloud"
  "github.com/gophercloud/gophercloud/pagination"
}

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
  ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
  q, err := gophercloud.BuildQueryString(opts)
  return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
  url := listURL(client)
  if opts != nil {
    query, err := opts.ToResourceListQuery()
    if err != nil {
      return pagination.Pager{Err: err}
    }
    url += query
  }
    return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
  })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
  _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
  return
}
// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToResourceUpdateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}
// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import (    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {    th.SetupHTTP()
    defer th.TeardownHTTP()
HandleListResourcesSuccessfully(t)

allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
th.AssertNoErr(t, err)
actual, err := resources.ExtractResources(allPages)
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{

actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)

package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

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Step 4: Acceptance Testing
================================

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of
Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

*/

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE

Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
Feature Request
---------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field
is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links are required for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.
An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

**Step 3: Code Hunting**

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621).

In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
```
type Network struct {
  ID     string `json:"id"`
  Name   string `json:"name"`
  AdminStateUp bool `json:"admin_state_up"
  Status string `json:"status"`
  Subnets []string `json:"subnets"`
  TenantID string `json:"tenant_id"`
  Shared   bool `json:"shared"`
}
```

to look like

```go
```
type Network struct {
  ID     string `json:"id"`
  Name   string `json:"name"`
  AdminStateUp bool `json:"admin_state_up"
  Status string `json:"status"`
  Subnets []string `json:"subnets"`
  TenantID string `json:"tenant_id"`
  Shared   bool `json:"shared"`
  AvailabilityZoneHints []string `json:"availability_zone_hints"`
```
We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605
Code Hunting Tips

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.1222 cloud-google-com-go 0.93.3

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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.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.TestIamPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
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.
//
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, "gapi", 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
  }
  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
  }

  // Parse the response and return
  return &computepb.LicenseCode{...}

  // Handle any errors that occurred during the request
  if err != nil {
    return nil, err
  }

  return &computepb.LicenseCode{...}, nil
}

// httpReqWithContext returns a new http.Request with the headers set if the
// method passed to the context.Context contains any headers.
func (c *licenseCodesRESTClient) httpReqWithContext(ctx context.Context) *http.Request {
  // If the context is non-nil and contains any headers, use them.
  if ctx != nil && len(ctx.Value("x-goog-api-client")) > 0 {
    header := ctx.Value("x-goog-api-client")
    headers := metadata.Pairs(header)
    httpReq := httpReq.WithHeader(headers)
  }
  return httpReq
}
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.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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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

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.
_ = 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.
}
deferr 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.
}
deferr 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.
}
deferr 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() {
    ctxx := 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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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

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

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

var newLicensesClientHook clientHook

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

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *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, "gapi", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

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

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

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

    baseUrl.RawQuery = params.Encode()

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

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

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

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

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.Operation{
        
        if err := unm.Unmarshal(buf, rsp); err != nil {
            return nil, maybeUnknownEnum(err)
        }
        op := &Operation{proto: rsp}
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.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
options := gax.CallOption { *compute pb.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
}
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.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.

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

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

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
}
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.Policy{
}
if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
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 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.
// 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{} {
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Version 2.0, January 2004
http://www.apache.org/licenses/

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1.1223 logfmt v0.0.0-20140226030751-b84e30acd515

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   Found in path(s):
   * /opt/cola/permits/1121676937_1610393508.65/0/github-com-kr-logfmt-zip/unquote.go

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   Go package for parsing (and, eventually, generating)
   log lines in the logfmt style.

   See http://godoc.org/github.com/kr/logfmt for format, and other documentation and examples.

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* /opt/cola/permits/1121676937_1610393508.65/0/github-com-kr-logfmt-zip/Readme

1.1224 mergo v0.3.6

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

fields:
  site: string
  author: root

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
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  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.
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1.1241 cachecontrol v0.0.0-20171018203845-0dec1b30a021

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1.1242 sys v0.0.0-20200519105757-fe76b779f299

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1.1243 kubernetes-client 0.18.6

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1.1245 asn1crypto 0.24.0

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1.1254 github.com/nats-io/jwt/v2 2.0.2

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BSON library for Go

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1.1264 protobuf v1.24.0
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.1286 structured-merge-diff 4.1.2

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Protocol Buffers for Go with Gadgets

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<td>GL/wglext.h</td>
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<td></td>
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include/GL/glxext.h
include/GL/wglxext.h:

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jar/org/simpleframework/util/lease/Maintainer.java

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jar/org/simpleframework/http/core/Producer.java
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* Connection.java October 2002
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jar/org/simpleframework/transport/connect/Connection.java
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* Query.java February 2001
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  jar/org/simpleframework/http/Query.java
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* FormatException.java May 2007
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  jar/org/simpleframework/util/FormatException.java
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* Body.java February 2007
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  jar/org/simpleframework/http/message/Body.java
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  jar/org/simpleframework/http/message/Message.java
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/message/MessageHeader.java
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 * Action.java February 2007
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  jar/org/simpleframework/transport/reactor/Action.java
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* Parser.java February 2001
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  jar/org/simpleframework/util/parse/Parser.java
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* Reactor.java February 2007
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 * ContentDispositionParser.java February 2007
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 * Entity.java February 2007
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  jar/org/simpleframework/http/message/Entity.java
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 * Agent.java October 2012
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  jar/org/simpleframework/transport/trace/Agent.java
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 * BufferSegment.java February 2008
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jar/org/simpleframework/transport/BufferSegment.java
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* SocketListenerManager.java February 2007
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jar/org/simpleframework/transport/connect/SocketListenerManager.java
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* Status.java February 2007
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jar/org/simpleframework/transport/Status.java
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 * Server.java February 2001
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  jar/org/simpleframework/http/RequestHeader.java
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  jar/org/simpleframework/transport/Scheduler.java
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* TransportException.java February 2007
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/core/QueryBuilder.java
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* Listener.java October 2002
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/transport/connect/SocketListener.java
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/util/thread/Scheduler.java
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* FileAllocator.java February 2008
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/util/buffer/FileAllocator.java
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* ConnectionException.java February 2007
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 * SecureTransport.java February 2007
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 * Method.java May 2012
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jar/org/simpleframework/http/Method.java
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 * ContractQueue.java May 2004
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/util/lease/ContractQueue.java
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 * ActionMap.java February 2007
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/transport/reactor/ActionMap.java
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* SocketFlusher.java February 2007  
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Found in path(s):  
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/transport/SocketFlusher.java

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* Lease.java May 2004  
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/util/lease/Lease.java

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 * Channel.java February 2007
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  jar/org/simpleframework/transport/Channel.java

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 * RequestEntity.java February 2001
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/core/RequestEntity.java

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 * PartSeriesConsumer.java February 2007
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-Jar/org/simpleframework/transport/SocketWriter.java

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* Terminator.java February 2009
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/*
* ArrayAllocator.java February 2001
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
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* NegotiationCertificate.java June 2013
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jar/org/simpleframework/transport/NegotiationState.java
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* PacketManager.java October 2007
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  jar/org/simpleframework/transport/PacketManager.java
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 * Collector.java October 2002
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/core/Collector.java
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 * PoolQueue.java February 2007
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 * TransportEvent.java October 2012
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  jar/org/simpleframework/transport/Handshake.java
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* QueryParser.java December 2002
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  jar/org/simpleframework/http/parse/QueryParser.java
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* ProducerException.java February 2007
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" /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1.jar/org/simpleframework/util/thread/PoolExecutor.java"
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 * TransferException.java February 2007
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 * ArrayBuffer.java February 2001
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jar/org/simpleframework/util/buffer/ArrayBuffer.java
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 * ArrayConsumer.java February 2007
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  jar/org/simpleframework/http/message/ArrayConsumer.java
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 * ContentType.java February 2001
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  jar/org/simpleframework/http/ContentType.java
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* QueryCombiner.java May 2003
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/*
* ValueParser.java September 2003
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/parse/ValueParser.java
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 * Certificate.java June 2013
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/transport/Certificate.java
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 * Segment.java February 2007
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/message/Segment.java
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 * Acceptor.java October 2002
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 * Controller.java May 2004
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/http/message/ConsumerFactory.java
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* Cursor.java February 2007
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/transport/Cursor.java
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* BufferAllocator.java February 2001
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/util/buffer/BufferAllocator.java
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 * ContentConsumer.java February 2007
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  jar/org/simpleframework/http/message/ContentConsumer.java
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 * ExecuteAction.java February 2007
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Found in path(s):
*/opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/transport/reactor/ExecuteAction.java
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 * ActionSet.java February 2013
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*/opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/transport/reactor/ActionSet.java
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 * Processor.java February 2007
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* ChunkedConsumer.java February 2007
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/http/message/ChunkedConsumer.java
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* Part.java February 2007
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  * Principal.java November 2002
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  */
  * Allocator.java February 2001
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jar/org/simpleframework/util/buffer/Allocator.java

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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/util/lease/LeaseCleaner.java

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 * TransportSender.java February 2007
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  jar/org/simpleframework/http/message/PartConsumer.java
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  jar/org/simpleframework/http/core/ContainerServer.java
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 * Reader.java February 2001
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jar/org/simpleframework/http/core/Reader.java
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 * FixedProducer.java February 2007
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jar/org/simpleframework/http/core/FixedProducer.java
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 * EmptyInputStream.java October 2002
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 * Transport.java February 2007
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 * ChunkedProducer.java February 2007
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  jar/org/simpleframework/http/core/ChunkedProducer.java
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 * BufferBody.java February 2012
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  jar/org/simpleframework/http/message/BufferBody.java
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 * Selector.java February 2007
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  jar/org/simpleframework/http/core/Selector.java
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* PartHeaderConsumer.java February 2007
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  jar/org/simpleframework/http/message/PartHeaderConsumer.java
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* PoolFactory.java February 2009
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jar/org/simpleframework/util/thread/PoolFactory.java
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/transport/trace/Trace.java
No license file was found, but licenses were detected in source scan.

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 * PartitionDistributor.java February 2007
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/transport/reactor/PartitionDistributor.java
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* PrincipalParser.java February 2001
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/http/parse/PrincipalParser.java
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* ExecutorReactor.java February 2007
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/transport/reactor/ExecutorReactor.java
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 * Contract.java May 2004
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/util/lease/Contract.java
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 * BoundaryConsumer.java February 2007
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/http/message/BoundaryConsumer.java
  No license file was found, but licenses were detected in source scan.

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  * ProcessorServer.java February 2007
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/transport/ProcessorServer.java
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  * SocketTrace.java February 2012
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/transport/connect/SocketTrace.java
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*/

* TransportCursor.java February 2007
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/transport/TransportCursor.java
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* PartFactory.java February 2007
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 * OperationFactory.java February 2007
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 * ParseBuffer.java February 2001
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/http/message/PartFactory.java

Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/transport/OperationFactory.java
jar/org/simpleframework/util/parse/ParseBuffer.java
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 * MapParser.java February 2005
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/util/parse/MapParser.java
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 * Cookie.java February 2001
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/Cookie.java
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 * ResponseMessage.java February 2001
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/http/core/ResponseMessage.java
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 * Negotiation.java February 2007
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 * SocketAgent.java February 2012
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/* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1.jar/org/simpleframework/transport/connect/SocketAgent.java */
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 * SecureNegotiator.java February 2007
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 * TransportChannel.java February 2007
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  jar/org/simpleframework/transport/TransportChannel.java

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* ProducerFactory.java February 2007
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  jar/org/simpleframework/http/core/ProducerFactory.java

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* Monitor.java February 2007
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* PartEntryConsumer.java February 2007
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   jar/org/simpleframework/http/message/PartEntryConsumer.java
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   jar/org/simpleframework/http/StatusLine.java
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 * PacketException.java February 2008
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  jar/org/simpleframework/transport/PacketException.java
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 * PartEntryFactory.java February 2007
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  jar/org/simpleframework/http/message/PartEntryFactory.java
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 * LeaseManager.java May 2004
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  jar/org/simpleframework/util/lease/LeaseManager.java
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 * FilterAllocator.java February 2001
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  jar/org/simpleframework/util/buffer/FilterAllocator.java
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 * CertificateChallenge.java June 2013
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  jar/org/simpleframework/transport/CertificateChallenge.java
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* Protocol.java May 2012
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  jar/org/simpleframework/http/Protocol.java
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* Timer.java November 2012
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  jar/org/simpleframework/http/core/Timer.java
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* TokenConsumer.java February 2007
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/message/TokenConsumer.java
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
* jar/org/simpleframework/transport/Packet.java
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/*

 Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
* jar/org/simpleframework/http/message/HeaderConsumer.java
No license file was found, but licenses were detected in source scan.
jar/org/simpleframework/util/buffer/FileManager.java
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 * Address.java February 2001
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jar/org/simpleframework/http/Address.java
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/transport/PacketWriter.java
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 * ResponseWrapper.java February 2001
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  jar/org/simpleframework/http/ResponseWrapper.java
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/util/thread/DirectExecutor.java
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 * Response.java February 2001
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/http/ResponseHeader.java
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/http/Response.java
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 * CookieParser.java February 2001
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* PartSeries.java February 2007
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jar/org/simpleframework/util/buffer/BufferException.java
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* ContractLease.java May 2004
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jar/org/simpleframework/transport/reactor/DirectReactor.java
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FixedConsumer.java February 2007

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LeaseException.java May 2004

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  jar/org/simpleframework/http/parse/LanguageParser.java
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* ThreadBuilder.java February 2009
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1.1311 github 32.1.0

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package github

import (
    "context"
    "fmt"
    "net/http"
    "testing"

    "github.com/google/go-cmp/cmp"
)

func TestRepositoryLicense_Marshal(t *testing.T) {
    testJSONMarshal(t, &RepositoryLicense{}, "{}")
}
rl := &RepositoryLicense{
    Name:         String("n"),
    Path:         String("p"),
    SHA:          String("s"),
    Size:         Int(1),
    URL:          String("u"),
    HTMLURL:      String("h"),
    GitURL:       String("g"),
    DownloadURL:  String("d"),
    Type:         String("t"),
    Content:      String("c"),
    Encoding:     String("e"),
    License: &License{
        Key:            String("k"),
        Name:           String("n"),
        URL:            String("u"),
        SPDXID:         String("s"),
        HTMLURL:        String("h"),
        Featured:       Bool(true),
        Description:    String("d"),
        Implementation: String("i"),
        Permissions:    &[]string{"p"},
        Conditions:     &[]string{"c"},
        Limitations:    &[]string{"l"},
        Body:           String("b"),
    },
}
want := `{
"name": "n",
"path": "p",
"sha": "s",
"size": 1,
"url": "u",
"html_url": "h",
"git_url": "g",
"download_url": "d",
"type": "t",
"content": "c",
"encoding": "e",
"license": {
"key": "k",
"name": "n",
"url": "u",
"spdx_id": "s",
"html_url": "h",
"featured": true,
"description": "d",
"implementation": "i",
}"}
"permissions": ["p"],
"conditions": ["c"],
"limitations": ["l"],
"body": "b"
}

testJSONMarshal(t, rl, want)
}

func TestLicense_Marshal(t *testing.T) {
testJSONMarshal(t, &License{}, `{}`)

l := &License{
    Key:         String("k"),
    Name:        String("n"),
    URL:         String("u"),
    SPDXID:      String("s"),
    HTMLURL:     String("h"),
    Featured:    Bool(true),
    Description: String("d"),
    Implementation: String("i"),
    Permissions:  &[]string{"p"},
    Conditions:   &[]string{"c"},
    Limitations:  &[]string{"l"},
    Body:        String("b"),
}

want := `{ "key": "k", "name": "n", "url": "u", "spdx_id": "s", "html_url": "h", "featured": true, "description": "d", "implementation": "i", "permissions": ["p"], "conditions": ["c"], "limitations": ["l"], "body": "b" }

testJSONMarshal(t, l, want)
}

func TestLicensesService_List(t *testing.T) {
    client, mux, _, teardown := setup()
defer teardown()

    mux.HandleFunc(`/licenses`, func(w http.ResponseWriter, r *http.Request) {

    })

    testJSONMarshal(t, l, want)
}
testMethod(t, r, "GET")
fmt.Fprint(w, 
'`[{"key":"mit","name":"MIT","spdx_id":"MIT","url":"https://api.github.com/licenses/mit","featured":true}]`')
}

txt := context.Background()
licenses, _, err := client.Licenses.List(ctx)
if err != nil {
t.Error("Licenses.List returned error: %v", err)
}

want := []*License{ {
Key:   String("mit"),
Name:  String("MIT"),
SPDXID: String("MIT"),
URL:   String("https://api.github.com/licenses/mit"),
Featured: Bool(true),
}
}
if !cmp.Equal(licenses, want) {
t.Error("Licenses.List returned %+v, want %+v", licenses, want)
}

const methodName = "List"
testNewRequestAndDoFailure(t, methodName, client, func() (*Response, error) { 
got, resp, err := client.Licenses.List(ctx)
if got != nil {
t.Errorf("testNewRequestAndDoFailure %v = %#v, want nil", methodName, got)
}
return resp, err
})

func TestLicensesService_Get(t *testing.T) {
client, mux, _, teardown := setup()
deref teardown()

mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
testMethod(t, r, "GET")
fmt.Fprint(w, `"key":"mit","name":"MIT"`) 
})

txt := context.Background()
license, _, err := client.Licenses.Get(ctx, "mit")
if err != nil {
t.Error("Licenses.Get returned error: %v", err)
}

want := &License{Key: String("mit"), Name: String("MIT")}
if !cmp.Equal(license, want) {
    t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}

const methodName = "Get"
testBadOptions(t, methodName, func() (err error) {
    _, _, err = client.Licenses.Get(ctx, "\n")
    return err
})

testNewRequestAndDoFailure(t, methodName, client, func() (*Response, error) {
    got, resp, err := client.Licenses.Get(ctx, "mit")
    if got != nil {
        t.Errorf("testNewRequestAndDoFailure %v = %#v, want nil", methodName, got)
    }
    return resp, err
})

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
    client, _, _, teardown := setup()
    defer teardown()

    ctx := context.Background()
    _, _, err := client.Licenses.Get(ctx, "%")
    testURLParseError(t, err)
}

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package github

import (
    "context"
    "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/
// type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"`
Path *string `json:"path,omitempty"`

SHA       *string `json:"sha,omitempty"`
Size       *int  `json:"size,omitempty"`
URL        *string `json:"url,omitempty"`
HTMLURL    *string `json:"html_url,omitempty"`
GitURL     *string `json:"git_url,omitempty"`
DownloadURL *string `json:"download_url,omitempty"`
Type       *string `json:"type,omitempty"`
Content    *string `json:"content,omitempty"`
Encoding   *string `json:"encoding,omitempty"`
License    *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key    *string `json:"key,omitempty"`
    Name   *string `json:"name,omitempty"`
    URL    *string `json:"url,omitempty"`
    SPDXID         *string   `json:"spdx_id,omitempty"`
    HTMLURL        *string   `json:"html_url,omitempty"`
    Featured       *bool     `json:"featured,omitempty"`
    Description    *string   `json:"description,omitempty"`
    Implementation *string   `json:"implementation,omitempty"`
    Permissions    *[]string `json:"permissions,omitempty"`
    Conditions     *[]string `json:"conditions,omitempty"`
    Limitations    *[]string `json:"limitations,omitempty"`
    Body           *string   `json:"body,omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.

// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
var licenses []License
resp, err := s.client.Do(ctx, req, &licenses)
if err != nil {
    return nil, resp, err
}

return licenses, resp, nil

// Get extended metadata for one license.
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#get-a-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
}

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1.1313 golang-lru 0.5.4

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1.1321 python 3.9.7

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.1328 lz4 v2.0.5+incompatible

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1.1329 x-oauth2 v0.0.0-20191202225959-858c2ad4c8b6

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1.1331 mongo-driver v1.5.1

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1) The following files: Immutable.java, NotThreadSafe.java, ThreadSafe.java
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7) The following files (originally from https://github.com/marianobarrios/tls-channel):

AsynchronousTlsChannel.java
AsynchronousTlsChannelGroup.java
BufferAllocator.java
BufferHolder.java
ByteBufferSet.java
ByteBufferUtil.java
ClientTlsChannel.java
DirectBufferAllocator.java
DirectBufferDeallocator.java
ExtendedAsynchronousByteChannel.java
HeapBufferAllocator.java
NeedsReadException.java
NeedsTaskException.java
NeedsWriteException.java
ServerTlsChannel.java
SniSslContextFactory.java
TlsChannel.java
TlsChannelBuilder.java
TlsChannelCallbackException.java
TlsChannelFlowControlException.java
TlsChannelImpl.java
TlsExplorer.java
TrackingAllocator.java
Util.java
WouldBlockException.java

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1.1353 client-golang v1.7.1

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1.1354 go v0.51.0

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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
    }
    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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1.1358 gophercloud v0.20.0

1.1358.1 Available under license:

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...

type Resource struct {

}

type commonResult struct {
    gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.

type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"
            Previous string `json:"previous"
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"
    }

Contributor Tutorial

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

At this point, you should have:
- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project’s service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

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

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

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

Types of Pull Requests

-----------------------
The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

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

### Adding a Single Field

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

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

### Adding a Single API Call

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

### Adding a Suite of API Calls

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

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

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

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

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.
An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

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

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

### Unit Tests

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

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

### Acceptance Tests

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

### Documentation

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

Dealing with Related Pull Requests
----------------------------------

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

There are two methods of handling this:

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

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

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

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

Advantages of this Method:

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

Disadvantages of this Method:

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

### Create a Chain of Pull Requests

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

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

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

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

Disadvantages of this Method:

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

The choice of method is up to you.

---

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

### Travis-CI

1. Travis-CI will run a set of simple tests:
   
   a. Unit Tests
   
   b. Code Formatting checks
   
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `*[wip]*` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI
If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes

If a code review requires changes to be submitted, please do not squash your
commits. Please only add new commits to the Pull Request. This is to help the
code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot
items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the
code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your
Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```
package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult =`

{
}
`

// GetResult provides a Get result.
const GetResult =`

{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest =`

{
}
`
// UpdateRequest provides the input to as Update request.
const UpdateRequest = `{
}
`;

// UpdateResult provides an update result.
const UpdateResult = `{
}
`;

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{};

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{};

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{};

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = [resources.Resource{FirstResource, SecondResource}]

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, ListResult)
})
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
    })
    w.WriteHeader(http.StatusCreated)
    fmt.Fprintf(w, GetResult)
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    })
    w.WriteHeader(http.StatusNoContent)
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    })
    th.TestJSONRequest(t, r, UpdateRequest)
    w.WriteHeader(http.StatusOK)
    fmt.Fprintf(w, UpdateResult)
}

package testing

import {
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
}

"github.com/gophercloud/gophercloud/testhelper/client"
)
HandleCreateResourceSuccessfully(t)

createOpts := resources.CreateOpts{
    Name: "resource two",
}

actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {


// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    resp, err := client.Get(getURL(client, id), &r.Body, nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    return
if err != nil {
    r.Err = err
    return
}
resp, err := client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
    OkCodes: []int{201},
})
_, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
return

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    resp, err := client.Delete(deleteURL(client, id), nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    resp, err := client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"
func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!
===============

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing
===============

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of
documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

`/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/`

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* [https://github.com/gophercloud/gophercloud/issues/108](https://github.com/gophercloud/gophercloud/issues/108)
* [https://github.com/gophercloud/gophercloud/issues/212](https://github.com/gophercloud/gophercloud/issues/212)
* [https://github.com/gophercloud/gophercloud/issues/424](https://github.com/gophercloud/gophercloud/issues/424)
* [https://github.com/gophercloud/gophercloud/issues/588](https://github.com/gophercloud/gophercloud/issues/588)
* [https://github.com/gophercloud/gophercloud/issues/629](https://github.com/gophercloud/gophercloud/issues/629)
* [https://github.com/gophercloud/gophercloud/issues/647](https://github.com/gophercloud/gophercloud/issues/647)

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also
need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.
### Adding a Missing API Call

If you've found a missing API action, create an issue with details of
the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project
and not an extension created by a third-party or vendor. Gophercloud only
supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull
Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create,
Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These
links are not required for _issues_, but it's usually a good idea to provide
them, anyway. These links _are required_ for PRs and that will be covered in
detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for
an entire OpenStack project is something the Gophercloud team very much
appreciates, but you should be prepared for several weeks of work and
interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen
here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to
If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go

```go
type Network struct {
ID       string `json:"id"`
Name     string `json:"name"`
AdminStateUp bool `json:"admin_state_up"`
Status   string `json:"status"`
Subnets  []string `json:"subnets"`
TenantID string `json:"tenant_id"`
Shared   bool `json:"shared"`
}
```

```go
type Network struct {
ID       string `json:"id"`
Name     string `json:"name"`
AdminStateUp bool `json:"admin_state_up"`
Status   string `json:"status"`
Subnets  []string `json:"subnets"`
TenantID string `json:"tenant_id"`
Shared   bool `json:"shared"`
AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.
One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).

However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying > that the API docs aren't useful or that the contributors who work on the API > docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update > documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[ ]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.
* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

======================================

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

**1.1359 nats v2.2.6**

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

            if strings.HasPrefix(string(src), prefix) {
                t.Errorf("%s: expected %s, got %s", path, prefix, src)
            }
        }

        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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-- vile: txtmode file-encoding=utf-8

1.1368 mocks v0.2.0

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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 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" {

Open Source Used In kASA v1.5 12286


// 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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1.1388 x-crypto 0.0.0-20201221181555-eec23a3978ad

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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# Handy Handlers

Collection of useful HTTP handlers that form a handler stack of filters. Many are opinionated for a specific purpose.

```markdown
```

# API

The signature for a handler wrapper ends with an `http.Handler` interface and returns a `http.Handler` interface. For example:

```go

func CORS(methods, origins []string, http.Handler) http.Handler
```

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Fork the repo and add your fix or handler with tests. Make a pull request.

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1.1401 libgpg-error 1.35 1

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

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

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
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1.1418 coreos-go-systemd v0.0.0-20190321100706-95778dfbb74e

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1.1419 text v0.3.2
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1.1420 github.com/aws/aws-sdk-go-v2/config

1.1.5

1.1420.1 Available under license :

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```go
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

noSmithyDocumentSerde

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

name: License Scan

on: [pull_request]

jobs:
  licensescan:
    name: License Scan
    runs-on: ubuntu-latest
    strategy:
      matrix:
        python-version: [3.9]
    steps:
      - name: Checkout target
        uses: actions/checkout@v2
        with:
          path: sdkbase
          ref: ${{ github.base_ref }}
      - name: Checkout this ref
        uses: actions/checkout@v2
        with:
          path: new-ref
          fetch-depth: 0
      - name: Get Diff
        run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }} ${{ github.sha }} > refDiffFiles.txt
      - name: Get Target Files
        run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
      - name: Checkout scancode
        uses: actions/checkout@v2
        with:
          repository: nexB/scancode-toolkit
          path: scancode-toolkit
          fetch-depth: 1
      - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
with:
  python-version: ${{ matrix.python-version }}

# ScanCode
- name: Self-configure scancode
  working-directory: ./scancode-toolkit
  run: ./scancode --help
- name: Run Scan code on target
  run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt

# compare
- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."); exit -1; else echo "Licenses are the same. Success."); exit 0; fi

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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
	noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
	noSmithyDocumentSerde
}
func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    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
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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

package grafana

import (
// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns ...
func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
    c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

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
    }
    return nil
}
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",
    }
}

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* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.
package licensemanager

import {
  "context"
  awsrm "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
  if params == nil {
    params = &GetLicenseInput{
  }

  result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, c.addOperationGetLicenseMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*GetLicenseOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type GetLicenseInput struct {

  // Amazon Resource Name (ARN) of the license.
  //
  // This member is required.
  LicenseArn *string
}
// License version.
Version *string

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}

type GetLicenseOutput struct {
  // License details.
  License *types.License

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

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}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  if err != nil {
    return err
  }
  if err != nil {
    return err
  }
  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 = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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

package licensemanager

import {
    "context"
// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
if params == nil {
    params = &CheckoutBorrowLicenseInput{ }
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
}
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

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type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

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

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}
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 = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
    c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {
// Checkout type.
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
// This member is required.
ClientToken *string

// License entitlements.
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
// This member is required.
KeyFingerprint *string

// Product SKU.
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

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}

type CheckoutLicenseOutput struct {
// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
// 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.\nNodeId *string

// Signed token.
SignedToken *string

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

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

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",}
package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
    
    // Lists the licenses for your account.
    func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
        if params == nil {
            params = &ListLicensesInput{
        }

        result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, c.addOperationListLicensesMiddlewares)
        if err != nil {
            return nil, err
        }

        out := result.(*ListLicensesOutput)
        out.ResultMetadata = metadata
        return out, nil
    }

    type ListLicensesInput struct {

        // Filters to scope the results. The following filters are supported:
        //
        // *
        // Beneficiary
        //
        // * ProductSKU
        //
        // * Fingerprint
        //
// Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

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}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

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

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}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = 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 = addHTTPSSignerV4Middleware(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_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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


type DeleteLicenseOutput struct {
  // Date when the license is deleted.
  DeletionDate *string

  // License status.
  Status types.LicenseDeletionStatus

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

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
  if err != nil {
    return err
  }
  err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
  if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
  }
  if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
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"
}
// 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

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}

type AssociateLicenseOutput struct {

    // A structure containing data about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
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 = 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 = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{ }
    }
}
result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, c.addOperationCreateLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil


type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
    // This member is required.
    HomeRegion *string

    // License issuer.
    //
    // This member is required.
    Issuer *types.Issuer

    // License name.
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

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}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

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

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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1.1421 levenshtein v1.0.1

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1.1423 atomic v1.7.0

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1.1426 snappy v0.0.4

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1.1428 xz 5.2.5-r0

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1.1444 go-shellquote 0.0.0-20180428030007-95032a82bc51

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1.1445 client-golang v1.8.0

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1.1447 fuzzysearch v1.1.1
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1.1448 purell v1.1.1
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1.1451 azure-storage-blob-go 0.13.0

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1.1452 zapr v0.1.0

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1.1453 tdb 1.44.5

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# This is a Makefile stub which handles the creation of BSD shared
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#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$( BSD_LIB) .
$(RM) -f ..=$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \n$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \n@-$LDCONFIG

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs-uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ..=$(BSD_LIB)

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:
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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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files of the EXT2 file system utilities. The EXT2 utilities were
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Index: tdba/tdb.c
===================================================================
--- tdba.orig/tdb.c
+++ tdba/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
 */
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
- 
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Theodore Ts'o

23-June-2007

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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1.1455 go-hclog 0.12.2

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1.1457 k8s-io-apimachinery v0.18.6

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
```Record ::= SEQUENCE {
 id INTEGER,
```
```

class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            ),
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            ),
        ),
    )
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 ‘SET’ is similar to Python `dict`, ‘SET OF’ to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
    substrate = encode(record)
>>> hexdump(substrate)
```
Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.

```
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The `pyasn1` classes struggle to emulate their Python prototypes (e.g. int,
list, dict etc.). But ASN.1 types exhibit more complicated behaviour.
To make life easier for a Pythonista, they can turn their `pyasn1`
classes into Python built-ins:

```
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of
Python objects:

```
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```
With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

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You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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ASN.1 library for Python
========================

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Abstract Syntax Notation One (ASN.1)
<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x> is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.
The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1
--------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and became a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting `discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_ or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies
use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
--------------

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
--------

.. toctree::
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/example-use-case

Download & Install
------------------

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/download
Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

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/changelog

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Getting help
------------


Books on ASN.1
---------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:

On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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* /opt/cola/permits/1238845238_1638992727.33/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/docs/source/contents.rst

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or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a 
work, in isolation, is not a derivative work of the Library, and 
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library 
creates an executable that is a derivative of the Library (because it 
contains portions of the Library), rather than a "work that uses the 
library". The executable is therefore covered by this License. 
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file 
that is part of the Library, the object code for the work may be a 
derivative work of the Library even though the source code is not. 
Whether this is true is especially significant if the work can be 
linked without the Library, or if the work is itself a library. The 
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data 
structure layouts and accessors, and small macros and small inline 
functions (ten lines or less in length), then the use of the object 
file is unrestricted, regardless of whether it is legally a derivative 
work. (Executables containing this object code plus portions of the 
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may 
distribute the object code for the work under the terms of Section 6. 
Any executables containing that work also fall under Section 6, 
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or 
link a "work that uses the Library" with the Library to produce a 
work containing portions of the Library, and distribute that work 
under terms of your choice, provided that the terms permit 
modification of the work for the customer's own use and reverse 
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the 
Library is used in it and that the Library and its use are covered by 
this License. You must supply a copy of this License. If the work 
during execution displays copyright notices, you must include the 
copyright notice for the Library among them, as well as a reference 
directing the user to the copy of this License. Also, you must do one 
of these things:

a) Accompany the work with the complete corresponding 
machine-readable source code for the Library including whatever 
changes were used in the work (which must be distributed under 
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

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If any portion of this section is held invalid or unenforceable under any
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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
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Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

------------------------------------------------------------------
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1.1516 github.com/influxdata/tail 1.0.1-0.20210707231403-b283181d1fa7

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tomb - support for clean goroutine termination in Go.

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1.1517 gopkg.in-yaml 2.3.0

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1.1518 controller-runtime 0.10.2

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1.1520 kubernetes-metrics 0.20.2

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.
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1.1526 github.com/wavefronthq/wavefront-sdk-go 0.9.7

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

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1.1540 go-restful v2.9.5+incompatible

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**1.1543 lxml 4.6.2**

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1.1546 golang-org-x-net v0.0.0-20200707034311-ab3426394381

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1.1557 utils v0.0.0-20200324210504-a9aa75ae1b89

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1.1558 kubernetes 1.21.2
1.1558.1 Available under license :

package types

import "time"

// FeatureType store features types
type FeatureType string

const (  
// HA means High Availability
HA = FeatureType("HA")
// DEV means developer licence
DEV = FeatureType("DEV")
// TRIAL means trial licence
TRIAL = FeatureType("TRIAL")
)

// Licence holds the information to be encoded in the licence key. It needs to be synced across  
// the django server running on portal-API as well as the corresponding decoding package on the 
// storageOS control plane

type Licence struct {  
ArrayUUID    string `json:"arrayUUID,omitempty"
ClusterID    string `json:"clusterID,omitempty"
CustomerID   string `json:"customerID"
CustomerName string `json:"customerName"
Storage      int    `json:"storage"
ValidUntil   time.Time `json:"validUntil"
LicenceType  string `json:"licenceType"
Features     map[FeatureType]bool `json:"features"
Unregistered bool `json:"unregistered"
}

// LicenceKeyContainer - stores a licence key

type LicenceKeyContainer struct {  
Key string `json:"

}  

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Version 2, June 1991
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Protocol Buffers for Go with Gadgets

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

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin "Plugin "" %v "", n.Plugin)
    } else {
        s += fmt.Sprintf("Option "Option "" Option "" %v "", n.Option, n.Plugin)
    }
    if n.Severity == "unsupported" {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {

s += "is added as a default in " + n.Version + "."
} else {
    s += "is " + n.Severity + " in " + n.Version + "."
}
if n.ReplacedBy != "" {
    s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
}
if n.Additional != "" {
    s += " " + n.Additional
}
return s
}

cost (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
    removed = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
)

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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `\`<path>`\`
- Remote file format is `\`<pod-name>:<path>`\`

```bash
ekubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `\`<path>`\`
- Remote file format is `\`<pod-name>:<path>`\`

```bash
```
## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

### Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

---

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package storageos

import (
    "encoding/json"
    "github.com/storageos/go-api/types"
)

const ( // licenceAPIPrefix is a partial path to the HTTP endpoint.
    licenceAPIPrefix = "licencing"
)

// Licence returns the current licence on the server.
func (c *Client) Licence() (*types.Licence, error) {
    resp, err := c.do("GET", licenceAPIPrefix, doOptions{})
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    licence := &types.Licence{
        if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {
            return nil, err
        }
        return licence, nil
    }

    // LicenceApply applies a licence on the server.
    func (c *Client) LicenceApply(licenceKey string) error {
        _, err := c.do("POST", licenceAPIPrefix, doOptions{
            data: &types.LicenceKeyContainer{Key: licenceKey},
        })
        return err
    }

    // LicenceDelete removes the current licence.
    func (c *Client) LicenceDelete() error {
        resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{})
        if err != nil {
            return err
        }
        return resp.Body.Close()
    }

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "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: "00000-00000-00000-00000-00000-00000",
EditionKey: "eval",
Name: "Evaluation Mode",
Properties: []types.KeyAnyValue{
    {
        Key: "feature",
        Value: types.KeyValue{
            Key: "serialuri:2",
            Value: "Remote virtual Serial Port Concentrator",
        },
    },
    {
        Key: "feature",
        Value: types.KeyValue{
            Key: "dvs",
            Value: "vSphere Distributed Switch",
        },
    },
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }

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

    return m
}

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 {
            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{
        Res: new(types.UpdateLicenseLabelResponse)
    }

    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/types"
)

type assign struct {
    *flags.ClientFlag
func init() {
    cli.Register("license.assign", &assign{})
}

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

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

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

    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
  }

  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 ["", 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")
    }
}

Open Source Used In kASA v1.5 14137
func TestLicenseManagerESX(t *testing.T) {
    ctx := context.Background()
    m := ESX()

defer m.Remove()

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

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

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

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

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

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

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

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

defer m.Remove()

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

    if !reflect.DeepEqual(la[0], EvalLicense) {
        t.Fatal("invalid license")
    }
}
s := m.Service.NewServer()
defer s.Close()

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

lm := license.NewManager(c.Client)
key := "00000-00000-00000-00000-11111"
labels := map[string]string{"key": "value"}

info, err := lm.Add(ctx, key, labels)
if err != nil {
    t.Fatal(err)
}

if info.LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, info.LicenseKey)
}

if len(info.Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(info.Labels))
}

if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {%s:%s}", info.Labels[0].Key, info.Labels[0].Value)
}

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

if len(la) != 2 {
    t.Fatal("no licenses")
}

if la[1].LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, la[1].LicenseKey)
}

if len(la[1].Labels) != len(labels) {

t.Fatalf("expect len(info.Labels) equal to %d; got %d",
    len(labels), len(la[1].Labels))
}

if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {%s:%s}",
        la[1].Labels[0].Key, la[1].Labels[0].Value)
}

err = lm.Remove(ctx, key)
if err != nil {
    t.Fatal(err)
}

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

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

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*/

package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
)
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.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.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
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
        }
    }
    return nil
}
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 -r ".[] | select(.LicenseKey == "$1") | .Labels[] | select(.Key == "$2") | .Value"
}

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

@test "license.add" {
  esx_env
  verify_evaluation
  run govc license.add -json 00000-00000-00000-00000-00001 00000-00000-00000-00000-00002
  assert_success

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

  verify_evaluation

  run govc license.remove -json 00000-00000-00000-00000-00001
  assert_success
}

@test "license.ls" {
  vcsim_env

  verify_evaluation

  run govc license.ls -json
  assert_success

  # Expect the test instance to run in evaluation mode
  assert_equal "Evaluation Mode" "$(get_key 00000-00000-00000-00000-00000 <<<$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 $key)"
  assert_equal bar "$(get_label $key foo)"

  run govc license.label.set $key biz baz
  assert_success
  run govc license.label.set $key foo bar2
  assert_success
assert_equal 2 "$(get_nlabel $key)"
assert_equal bar2 "$(get_label $key foo)"

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

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

import (
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)
// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name:       "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature",
         Value: types.KeyValue{
             Key:   "serialuri:2",
             Value: "Remote virtual Serial Port Concentrator",
         }},
        {Key: "feature",
         Value: types.KeyValue{
             Key:   "dvs",
             Value: "vSphere Distributed Switch",
         }}
    }
}

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 {
    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:
gove license.label.set 00000-00000-00000-00000-00000 team cnx # add/set label
gove license.label.set 00000-00000-00000-00000-00000 team "" # remove label
gove 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) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

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

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

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

    if cmd.feature != ""
        result = result.WithFeature(cmd.feature)
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*/

package license

import (
    "context"
    "strconv"
    "strings"

    "github.com/vmware/govmomi/object"

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.Decode(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}
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: mapToKeySlice(labels),
    }

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

    return res.Returnval, nil
}

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

    return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager

    // Code continues here
err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
if err != nil {
    return nil, err
}

if mlm.LicenseAssignmentManager == nil {
    return nil, object.ErrNotSupported
}

am := AssignmentManager{
    object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
}

return &am, nil

type licenseFeature struct {
    name  string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
    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/vim25/types"
}

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

    id string
}

func init() {
    cli.Register("license.assigned.ls", &assigned{})
}
func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

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

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

func (cmd *assigned) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    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:	Scope:	Name:	License:
")
    for _, v := range res {
        fmt.Fprintf(tw, "%s	", v.EntityId)
        fmt.Fprintf(tw, "%s	", v.Scope)
fmt.Fprintf(tw, "\t", v.EntityDisplayName)
fmt.Fprintf(tw, "\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)
  ctx = flags.AddOutput(ctx, cmd.ClientFlag, cmd.OutputFlag)
  cmd.ClientFlag.Register(ctx, f)
  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
  ctx = flags.AddOutput(ctx, cmd.ClientFlag, cmd.OutputFlag)

  cmd.ClientFlag = flags.NewBaseFlagSet(ctx)
  cmd.ClientFlag.Name = "license.remove"
  cmd.ClientFlag.Description = "remove a license from a virtual machine"
  cmd.ClientFlag.AddFlag(flag.StringFlag{"vm", "v", "vm", "vm", "virtual machine to remove license from"})
  cmd.ClientFlag.AddFlag(flag.BoolFlag{"kill", "k", "kill", "kill", "kill the VM if it is running"})

  cmd.ClientFlag.AddFlag(flag.StringFlag{"license", "l", "license", "license", "license to remove"})
  cmd.ClientFlag.AddFlag(flag.StringFlag{"file", "f", "file", "file", "file containing the license"})

  cmd.ClientFlag.AddFlag(flag.StringFlag{"context", "c", "context", "context", "context of the license"})
  cmd.ClientFlag.AddFlag(flag.BoolFlag{"bypass-attachment", "b", "bypass-attachment", "bypass-attachment", "bypass attachment if it is set"})

  cmd.ClientFlag.AddFlag(flag.StringFlag{"output", "o", "output", "output", "output file to write the VM state to"})
  cmd.ClientFlag.AddFlag(flag.StringFlag{"rest", "r", "rest", "rest", "rest output"})

  cmd.ClientFlag.AddFlag(flag.StringFlag{"context", "c", "context", "context", "context of the license"})
  cmd.ClientFlag.AddFlag(flag.BoolFlag{"bypass-attachment", "b", "bypass-attachment", "bypass-attachment", "bypass attachment if it is set"})

  cmd.ClientFlag.AddFlag(flag.StringFlag{"output", "o", "output", "output", "output file to write the VM state to"})
  cmd.ClientFlag.AddFlag(flag.StringFlag{"rest", "r", "rest", "rest", "rest output"})
func (cmd *remove) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

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

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)
    for _, v := range f.Args() {
        err = m.Remove(ctx, v)
        if err != nil {
            return err
        }
    }
    list, err := m.List(ctx)
    if err != nil {
        return err
    }
    for _, v := range f.Args() {
        for _, l := range list {
            if v == l.LicenseKey {
                return fmt.Errorf("cannot remove license %q", v)
            }
        }
    }
    return nil
}

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package license

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

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

type licenseOutput [][]types.LicenseManagerLicenseInfo

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

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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,
    }

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

    return nil
}
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
}

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1.1571 github.com/lithammer/fuzzysearch

v1.1.1

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1.1573 kubernetes-apimachinery 0.19.2

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1.1574 hashicorp-consul-api 1.9.1
1.1574.1 Available under license:

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

# Consul-Terraform-Sync Enterprise License

<EnterpriseAlert>
Licenses are only required for Consul-Terraform-Sync Enterprise
</EnterpriseAlert>

Consul-Terraform-Sync Enterprise binaries require a [Consul Enterprise license](/docs/enterprise/license/overview) to run. There is no Consul-Terraform-Sync Enterprise specific license. As a result, Consul-Terraform-Sync Enterprise's licensing is very similar to Consul Enterprise.

All Consul-Terraform-Sync Enterprise features are available with a valid Consul Enterprise license, regardless of your Consul Enterprise packaging or pricing model.

To get a trial license for Consul-Terraform-Sync Enterprise, you can sign-up for the [trial license for Consul Enterprise](/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).

## Setting the License

Choose one of the following methods (in order of precedence) to set the license:

1. Set the `CONSUL_LICENSE` environment variable to the license string.

   ```shell-session
   export CONSUL_LICENSE=<LICENSE_VALUE>
   ```

1. Set the `CONSUL_LICENSE_PATH` environment variable to the path of the file containing the license.

   ```shell-session
   export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
   ```

1. Configure the `[license_path]` option in the configuration file to point to the file containing the license.

   ```hcl
   license_path = "<PATH>/<TO>/<FILE>"
   ```

-> **Note**: the [options to set the license and the order of
precedence](/docs/enterprise/license/overview#binaries-without-built-in-licenses) are the same as Consul Enterprise server agents.

Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul-enterprise) for detailed steps on how to install the license key.

### Updating the License

The previous section describes options for [setting the license](#setting-the-license) needed to start running Consul-Terraform-Sync Enterprise. Use the following procedure to update the license when it expires or is near the expiration date:

1. Update the license environment variable or configuration with the new license value or path to the new license file
1. Stop and restart Consul-Terraform-Sync Enterprise

Once Consul-Terraform-Sync Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

## Notification and Termination Behavior

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. Consul-Terraform-Sync Enterprise will cease to function once the termination date has passed.

The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement for complete terms of your grace period.

When approaching expiration and termination, Consul-Terraform-Sync Enterprise will provide notifications in the system logs:

<table>
<thead>
<tr>
<th>Time period</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 days before expiration</td>
<td>Warning-level log every 24-hours</td>
</tr>
<tr>
<td>7 days before expiration</td>
<td>Warning-level log every 1 hour</td>
</tr>
<tr>
<td>1 hour before expiration</td>
<td>Warning-level log every 1 minute</td>
</tr>
<tr>
<td>1 day before expiration</td>
<td>Warning-level log every 5 minutes</td>
</tr>
<tr>
<td>At or after expiration (before termination)</td>
<td>Error-level log every 1 minute</td>
</tr>
<tr>
<td>At or after termination</td>
<td>Error-level log and exit</td>
</tr>
</tbody>
</table>

--> **Note**: Notification frequency and [grace period](/docs/enterprise/license/faq#q-is-there-a-grace-period-when-licenses-expire) behavior is the same as Consul Enterprise.

<di...attributes
class="consul-intention-permission-header-form"
>

<FormGroup
  @name={{name}}
  as |group|>
<fieldset>
  <div>
    <group.Element
      @name="HeaderType"
      @type="select"
      as |el|>
      <el.Label>Header type</el.Label>
      <PowerSelect
        @options={{headerTypes}}
        @selected={{headerType}}
        @onchange={{action 'change' 'HeaderType' changeset}} as |Type|>
        {{get headerLabels Type}}
      </PowerSelect>
    </group.Element>
    
    <group.Element
      @name="Name"
      @error={{changeset-get changeset 'error.Name'}}
      as |el|>
      <el.Label>Header name</el.Label>
      <el.Text
        @value={{changeset-get changeset 'Name'}}
        oninput={{action 'change' 'Name' changeset}} />
    </group.Element>
  </div>
</fieldset>

{{#if shouldShowValueField}}
  <group.Element
    @name="Value"
    @error={{changeset-get changeset 'error.Value'}}
    as |el|>
    <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
    <el.Text
      @value={{changeset-get changeset 'Value'}}
    />
  </group.Element>
{{/if}}
# License - Operator HTTP API

The licensing functionality described here is available only in
[Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/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/features/blocking),
[consistency modes](/api/features/consistency),
[agent caching](/api/features/caching), and
Open Source Used In kASA v1.5  14201

[required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: `")"` - Specifies the datacenter whose license should be retrieved.
  This will default to the datacenter of the agent serving the HTTP request.
  This is specified as a URL query parameter.

### Sample Request

```shell-session
$ curl \
   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
   "Valid": true,
   "License": {
      "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
      "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
      "installation_id": "*",
      "issue_time": "2018-05-21T20:03:35.911567355Z",
      "start_time": "2018-05-21T04:00:00Z",
      "expiration_time": "2019-05-22T03:59:59.999Z",
      "product": "consul",
      "flags": {
         "package": "premium"
      },
      "features": [
         "Automated Backups",
         "Automated Upgrades",
         "Enhanced Read Scalability",
         "Network Segments",
         "Redundancy Zone",
         "Advanced Network Federation"
      ],
      "temporary": false
   },
   "Warnings": []
}
```
## Updating the Consul License

**Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/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/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` (string: `""`) - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```sh
$ curl \
   --request PUT \
   --data @consul.license \
   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
```

Open Source Used In kASA v1.5 14202
```
"license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
"customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
"installation_id": "*",
"issue_time": "2018-05-21T20:03:35.911567355Z",
"start_time": "2018-05-21T04:00:00Z",
"expiration_time": "2019-05-22T03:59:59.999Z",
"product": "consul",
"flags": {
  "package": "premium"
},
"features": [
  "Automated Backups",
  "Automated Upgrades",
  "Enhanced Read Scalability",
  "Network Segments",
  "Redundancy Zone",
  "Advanced Network Federation"
],
"temporary": false
},
"Warnings": []
```

## Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>DELETE</code></td>
<td><code>/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/features/blocking),
[consistency modes](/api/features/consistency),
[agent caching](/api/features/caching), and
[required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters
- `dc` (string: "") - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```shell-session
$ curl \
  --request DELETE \
  http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
```
## Licensing

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend on which binary is in use, whether the agent is a server, client or snapshot agent and whether ACLs have been enabled for the cluster.

-> **Consul Enterprise 1.10.0 removed temporary licensing.** In previous versions Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also prior to 1.10.0 server agents would automatically propagate the license between themselves. This no longer occurs and the license must be present on each server when they are started.

-> Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

### Binaries with Built In Licenses

If you are downloading Consul from Amazon S3, then the license is included in the binary and you do not need to take further action. This is the most common use case.

In the S3 bucket you will find three Enterprise zip packages. The packages with `+pro` and `+prem` in the name, are the binaries that include the license. The package with `+ent` in the name does not include the license.

When using these binaries no further action is necessary to configure the license.

### Binaries Without Built In Licenses

For Consul Enterprise 1.10.0 or greater, binaries that do not include built in licenses a license must be available at the time the agent starts.

For server agents this means that they must either have the [`license_path`](/docs/agent/options#license_path) configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or `CONSUL_LICENSE_PATH` environment variables. Both the configuration item and the `CONSUL_LICENSE_PATH` environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple of these are set the order of precedence is:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Both client agents and the snapshot agent may also be licensed in the very same manner. However to prevent the need to configure the license on many client agents and snapshot agents those agents have the capability to retrieve the license automatically under specific circumstances.
#### Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn’t need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the `start_join` or `retry_join` configurations. If those are both unset or no `agent` token is set then the client agent will immediately shut itself down.

If all preliminary checks pass the client agent will attempt to reach out to any server on its RPC port to request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.

Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

#### Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents, the snapshot agent will shut itself down after being unable to retrieve the license for 5 minutes.
<div ...
    class="consul-intention-permission-form"
>
<form
    class="consul-intention-permission-form"
>
    <div>
        <div>
            <span class="label">
                Should this permission allow the source connect to the destination?
            </span>
        </div>
    </div>
    <div role="radiogroup" class="has-error">
        {{#each intents as |intent|}}
            <label>
                <span>{{capitalize intent}}</span>
                <input
                    type="radio"
                    name="Action"
                    value={{intent}}
                    checked={{if (eq changeset.Action intent) 'checked'}}
                    onchange={{action (changeset-set changeset 'Action') value="target.value"}}
                />
            </label>
        {{/each}}
    </div>
</form>

</div>

<fieldset>
    <div>
        <div role="radiogroup" class="has-error">
            {{#each intents as |intent|}}
                <label>
                    <span>{{capitalize intent}}</span>
                    <input
                        type="radio"
                        name="Action"
                        value={{intent}}
                        checked={{if (eq changeset.Action intent) 'checked'}}
                        onchange={{action (changeset-set changeset 'Action') value="target.value"}}
                    />
                </label>
            {{/each}}
        </div>
    </div>
</fieldset>

<fieldset>
    <header>
        <h2>Path</h2>
    </header>
</fieldset>
<div>
  <group.Element
    @name="PathType"
    @type="select"
    as |el|>
    <el.Label>
      Path type
    </el.Label>
    <PowerSelect
      @options={{pathTypes}}
      @selected={{pathType}}
      @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
      {{get pathLabels Type}}
    </PowerSelect>
  </group.Element>

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

<fieldset>
<h2>Methods</h2>
<div class="type-toggle">
  <span>All methods are applied by default unless specified</span>
</div>
</fieldset>
<el.Checkbox
    checked={if allMethods 'checked'}
    onchange={action 'change' 'allMethods' changeset}
/>

<el.Label>
    All Methods
</el.Label>
</group.Element>
</div>

{{#if shouldShowMethods}}
<div class="checkbox-group" role="group">
    {{#each methods as |method|}}
    <label class="type-checkbox">
        <input
            type="checkbox"
            name="method"
            value={{method}}
            checked={if (contains method changeset.HTTP.Methods) 'checked'}
            onchange={action 'change' 'method' changeset}
        />
        <span>{{method}}</span>
    </label>
    {{/each}}
</div>
{{/if}}
</fieldset>

<fieldset>
<h2>Headers</h2>

<Consul::Intention::Permission::Header::List
    @items={{changeset-get changeset 'HTTP.Header'}}
    @ondelete={action 'delete' 'HTTP.Header' changeset}
    as [headerList]>
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SOFTWARE.
# Consul License

Command: `consul license`

The `license` command provides a datacenter-level view of the Consul Enterprise license. This was added in Consul 1.1.0 but Consul 1.10.0 removed the ability to set and reset the license using the CLI. See the [licensing documentation](/docs/enterprise/license/overview) for more information about Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in order to use this command. Requests are forwarded internally to the leader if required, so this can be run from any Consul node in a cluster. See the [ACL Guide](https://learn.hashicorp.com/consul/security-networking/production-acls) for more information.

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

This command has subcommands for managing the Consul Enterprise license. Here are some simple examples, and more detailed examples are available in the subcommands or the documentation.

Install a new license from a file:

```bash
$ consul license put @consul.license
```

Install a new license from stdin:

```bash
$ consul license put -
```

Install a new license from a string:

```bash
$ consul license put "<license blob>"
```

Retrieve the current license:

```bash
$ consul license get
```
Inspect a license:

$ consul license inspect "<path to license file>"

Reset the current license:

$ consul license reset

For more examples, ask for subcommand help or view the documentation.

Subcommands:
get    Get the active license
inspect Inspect a signed license
put    Puts a new license in the datacenter
reset  Resets the license in the datacenter

## inspect

This command inspects and validates a license. Just like a Consul agent it can load the license from a file on disk or from the `CONSUL_LICENSE` and `CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [<options>] [<license file>]`

Inspect a license contained in a file:

```
$ consul license inspect consul.hclic
```

Inspect a license loaded from the environment:

```
$ consul license inspect
```

This will look at the `CONSUL_LICENSE` environment variable first and if not present then we will look for the file specified by the `CONSUL_LICENSE_PATH` environment variable.

The output looks like this:

```
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
```
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7e020610-60a2-7cc6-210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC

Modules:
- Global Visibility, Routing and Scale
- Governance and Policy

Features:
- Automated Backups
- Automated Upgrades
- Enhanced Read Scalability
- Network Segments
- Redundancy Zone
- Advanced Network Federation
- Namespaces
- SSO
- Audit Logging
- Admin Partitions

License is valid

```
## put

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

This command sets the Consul Enterprise license.

Usage: `consul license put [options] LICENSE`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
```
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```

## get

This command gets the Consul Enterprise license.

Usage: `consul license get [options]`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```

## reset

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid.
If the builtin license is invalid, the current one stays active.

Usage: `consul license reset [options]`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8fffc-85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```

```
@import './skin';
@import './layout';
.consl-intention-permission-list > ul > li {
  @extend %list-row-200;
}
.consl-intention-permission-list:not(.readonly) > ul > li {
  @extend %with-composite-row-intent;
}
.consl-intention-permission-list strong {
  @extend %pill-500;
}
.consl-intention-permission-list .intent-allow {
  @extend %pill-allow;
}
.consl-intention-permission-list .intent-deny {
  @extend %pill-deny;
}
<Notice
class="topology-metrics-notice"
...attributes
@type={ { @type } }
```
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type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"

    // The product the license is valid for
    Product string `json:"product"

    // License Specific Flags
    Flags map[string]interface{} `json:"flags"

    // Modules is a list of the licensed enterprise modules
    Modules []string `json:"modules"

    // List of features enabled by the license
    Features []string `json:"features"
}

type LicenseReply struct {
    Valid    bool
    License  *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := op.c.doRequest(r)
    if err != nil {
        return "", err
    }
    defer closeResponseBody(resp)
    if err := requireOK(resp); err != nil {
        return "", err
    }
    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }
    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := op.c.doRequest(r)
    if err != nil {
        return nil, err
    }
    defer closeResponseBody(resp)
    if err := requireOK(resp); err != nil {
        return nil, err
    }
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := op.c.doRequest(r)
    if err != nil {
        return nil, err
    }
    defer closeResponseBody(resp)
    if err := requireOK(resp); err != nil {
        return nil, err
    }
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}
Presentational component for informational/warning/error banners/notices.

```hbs preview-template
<Notice
  @type={{this.type}}
  as |notice|>
  <notice.Header>
    <h3>Header</h3>
  </notice.Header>
  <notice.Body>
    <p>
      Body
    </p>
  </notice.Body>
  <notice.Footer>
    <p>
      Footer link</p>
  </notice.Footer>
</Notice>

<figure>
  <figcaption>Provide a widget to change the <code>@type</code></figcaption>
  <select
    onchange={{action (mut this.type) value="target.value"}}
  >
    <option>info</option>
    <option>success</option>
    <option>warning</option>
    <option>error</option>
  </select>
</figure>

## Arguments

<table>
<thead>
<tr>
<th>Argument/Attribute</th>
<th>Type</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>type</code></td>
<td><code>String</code></td>
<td><code>info</code></td>
<td>Type of notice [info</td>
</tr>
</tbody>
</table>

## See
- [Template Source Code](./index.hbs)

```html
---

{{#if (gt items.length 0)}}
<ListCollection

class="consul-intention-permission-list{{if (not onclick) ' readonly'}}"
@scroll="native"
@items={{items}}
@partial={{5}}
as [item]>
<BlockSlot @name="details">
  <div onclick={{action (optional onclick) item}}>
    <strong class={{concat 'intent-' item.Action}}>{{capitalize item.Action}}</strong>
    {{#if (gt item.HTTP.Methods.length 0)}}
      <dl class="permission-methods">
        <dt>
          <Tooltip>
            Methods
          </Tooltip>
        </dt>
        <dd>
          {{#each item.HTTP.Methods as |item|}}
            {{item}}
          {{/each}}
        </dd>
      </dl>
    {{/if}}
    {{#if item.HTTP.Path}}
      <dl class="permission-path">
        <dt>
          <Tooltip>
            {{item.HTTP.PathType}}
          </Tooltip>
        </dt>
        <dd>
          {{item.HTTP.Path}}
        </dd>
      </dl>
    {{/if}}
    {{#each item.HTTP.Header as |item|}}
      <dl class="permission-header">
        <dt>
          <Tooltip>
            Header
          </Tooltip>
        </dt>
        <dd>
          {{item.HTTP.Header}}
        </dd>
      </dl>
    {{/each}}
  </div>
</div>

{{/if}}
```
This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this project, you can obtain one at http://mozilla.org/MPL/2.0/.

<Notice
  class="consul-intention-notice-custom-resource crd"
  ...attributes
  @type={{or @type "info"}}
  as |notice|>
Some of your intentions are being managed through an Intention Custom Resource in your Kubernetes cluster. Those managed intentions will be view only in the UI. Any intentions created in the UI will work but will not be synced to the Custom Resource Definition (CRD) datastore.

<a href="{{env 'CONSUL_DOCS_URL'}}/k8s/crds" target="_blank" rel="noopener noreferrer">Learn more about CRDs</a>
%notice-info {
  border-color: rgb(var(--tone-blue-100));
  background-color: rgb(var(--tone-blue-010));
}
%notice-info header * {
  color: rgb(var(--tone-blue-700));
}

%notice-highlight {
  background-color: rgb(var(--tone-gray-050));
  border-color: rgb(var(--tone-gray-300));
}
%notice-info header * {
  color: rgb(var(--tone-blue-700));
}
%notice-warning {
  border-color: rgb(var(--tone-yellow-100));
  background-color: rgb(var(--tone-yellow-050));
}
%notice-warning header * {
  color: rgb(var(--tone-yellow-800));
}
%notice-error {
  background-color: rgb(var(--tone-red-050));
  border-color: rgb(var(--tone-red-500));
}
%notice-error header * {
  color: rgb(var(--tone-red-500));
}
%notice-success::before {
  @extend %with-check-circle-fill-mask;
  color: rgb(var(--tone-green-500));
}
%notice-info::before {
  @extend %with-info-circle-fill-mask;
  color: rgb(var(--tone-blue-500));
}
%notice-highlight::before {
  @extend %with-star-fill-mask;
  color: rgb(var(--tone-yellow-500));
}
%notice-warning::before {
  @extend %with-alert-triangle-mask;
  color: rgb(var(--tone-orange-500));
}
%notice-error::before {
  @extend %with-cancel-square-fill-mask;
  color: rgb(var(--tone-red-500));
}
# Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0. Consul Enterprise automatically loads Consul licenses when the server agent starts.

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

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.
If the license is missing, invalid, or expired, the server will immediately exit. This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol. This will no longer work since each server must be able to find a valid license during the startup process.

## Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release. During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token. The upgrade process varies if ACLs are enabled or disabled in the cluster. Refer to the instructions on [upgrading to 1.10.x](https://www.consul.io/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

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

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

## Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](https://www.consul.io/docs/enterprise/upgrades)
- [Consul License Documentation](https://www.consul.io/docs/enterprise/license)
- [License configuration values documentation](https://www.consul.io/docs/enterprise/license/overview#binaries-without-built-in-licenses)
- [Install a HashiCorp Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise)

## Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise. This impacts customers that have an enterprise binary (evaluation or non-evaluation licenses) downloaded from https://releases.hashicorp.com. The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

## Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0, a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up.
The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

## Q: What is the impact on evaluation licenses due to this change?

The 6-hour trial period for evaluation licenses will be deprecated as of Consul Enterprise 1.10.0. This means that any clusters deployed with Consul 1.10.0+ent binaries will need to have a valid license on the disk (auto-loaded) or as an environment variable. Failure to provide a valid license key will result in the Consul server agent not starting.

## Q: Is there a grace period when licenses expire?

A license includes an `expiration_date` and a `termination_date`. An enterprise binary will cease to function once the `termination_date` has passed. Licenses will now have a 24 hrs grace period. The grace period is the time between license expiry until the time it terminates. As Consul Enterprise approaches the expiration date, warnings will be issued in the system logs.

## Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients. Please review the [upgrade requirements](faq#q-what-are-the-upgrade-requirements) documentation.

## Q: Does this affect snapshot agents?

Same behavior as Consul clients. See answer for [Does this affect client agents?] (faq#q-does-this-affect-client-agents)

## Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit. Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `start_join/retry_join` addresses.
- The start/retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `start_join/retry_join` addresses, the start/retry join addresses are addresses of the Consul servers.

## Q: Where can users get a trial license for Consul Enterprise?

Visit https://www.consul.io/trial for a free 30-day trial license.
## Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

## Q: Will this impact HCP Consul?

This will not impact HCP Consul.

## Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for evaluation licenses (non-evaluation licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

## Q: What are the scenarios that a customer must plan for because of these changes?

New Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy.

This valid license must be on-disk (auto-loaded) or as an environment variable.

Please see the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

## Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

### VM

1. Run `[`consul license get -signed`](/commands/license#get) to extract the license from their running cluster. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/docs/upgrading).

### Kubernetes

**NOTE:** If you are not upgrading Consul or your Helm chart version then no action is required.
1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.

1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, then 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.

Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise).

1. Follow the [Kubernetes Upgrade Docs](/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

--- **WARNING:** If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise) for more details.

### Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

#### VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.

1. Store the license in a secure location on disk.

1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.

   Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

1. Follow the Consul upgrade [documentation](/docs/upgrading).

#### Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.

1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.

   Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

1. Proceed with the `helm` [upgrade instructions](/docs/k8s/upgrade)

### Q: Will Consul downgrades/rollbacks work?

When downgrading to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

### Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

--> Verify that you meet the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).
Assume a scenario where there are three Consul server nodes:

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

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

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

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

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

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

## Q: Any impacts to Consul Kubernetes?

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

You will need to add the following configuration.

```yaml
server:
  enterpriseLicense:
    enableLicenseAutoload: false
```

### 1.1575 xml-apis 1.3.04

**1.1575.1 Available under license:**

xml-commons/java/external/README.dom.txt $Id: README.dom.txt 477038 2006-11-20 04:40:36Z mrglavas $

**HEAR YE, HEAR YE!**

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and all subdirectories

(Note: SAC (The Simple API for CSS) has been published under an older version of the W3C license. The original license file is LICENSE.sac.html.)

LICENSE.dom-documentation.txt covers all documentation from the W3C including the following items in the xml-commons project:

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and all subdirectories

The actual DOM Java Language Binding classes in xml-commons came from:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.html

The specification of DOM Level 3's various parts is at:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/

The specification of DOM Level 2's various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1's various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:
http://www.w3.org/TR/SVG11/java.html

HEAR YE, HEAR YE!

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xml-commons/java/external/xdocs/sax
and all subdirectories

The actual SAX classes in xml-commons came from:
http://www.megginson.com/Software/index.html
The original versions are tagged 'SAX-2_0-r2-prerelease'

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1.1576 k8s-io-client-go v0.19.2

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webservers for SSL client authentication.
Just configure this file as the SSLCACertificateFile.
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Bruce Perens. Current maintainer is Matthias Klose <doko@debian.org>.

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Mersenne Twister
-------------

The `_random' module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html'. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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---------------------------

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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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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cache-config

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1.1591 github.com/azure/azure-amqp-common-go/v3 3.0.0

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d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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b) You must cause the files modified to carry prominent notices
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c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
Table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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application-supplied function or table used by this function must
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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tomb - support for clean goroutine termination in Go.

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1.614 prometheus-procfs v0.1.3

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@example
one line to give the program's name and a brief idea of what it does.

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@example
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{show c}; they could even be mouse-clicks or menu items---whatever suits your program.
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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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1.1623 component-base v0.20.2

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1.1624 snmp 5.7.3+dfsg-5+deb10u2

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* /opt/cola/permits/1110905341_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/LICENSE.rst
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####
A library to support the Internationalised Domain Names in Applications
(IDNA) protocol as specified in RFC 5890 et.al. This new methodology,
known as IDNA 2008, can generate materially different results to the
previous standard. The library can act as a drop-in replacement for
the "encodings.idna" module.

####
import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}  
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies'}
'author_email': 'kim@cynosure.com.au',
'license': 'BSD-like',
'url': 'https://github.com/kjd/idna',
'classifiers': [
    'Development Status :: 5 - Production/Stable',
    'Intended Audience :: Developers',
    'Intended Audience :: System Administrators',
    'License :: OSI Approved :: BSD License',
    'Operating System :: OS Independent',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Programming Language :: Python :: 3.7',
    'Programming Language :: Python :: 3.8',
    'Programming Language :: Python :: Implementation :: CPython',
    'Programming Language :: Python :: Implementation :: PyPy',
    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110905341_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8deeb9/setup.py

1.1638 component-base v0.18.6
1.1638.1 Available under license :

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1.1675 golang-protobuf-extensions v1.0.1

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1.1676 errors v0.8.1

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  jar/io/netty/resolver/CompositeNameResolver.java
* /opt/cola/permits/1153055854_1618392533.47/0/netty-resolver-4-1-61-final-sources-
  jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
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1.1680 wtforms 2.0.1

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1.1695 github.com/wvanbergen/kazoo-go
0.0.0-20180202103751-f72d8611297a

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1.1697 bouncycastle-fips 1.0.3

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 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. [ ".com", ".net", ".org" ]
 */
```

Found in path(s):
```
/opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources-
```
1.1698 hdrhistogram v0.0.0-20161010025455-3a0bb77429bd

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1.1701 go.uber.org/atomi 1.7.0

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1.1708 wheel 0.37.0

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1.1715 zap 1.19.0
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1.1716 zapr v0.2.0

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1.1717 github.com/aws/aws-sdk-go-v2/service/internal/s3shared 1.2.2
1.1717.1 Available under license :

// 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"
)
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
    params = &ListReceivedLicensesInput{
}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil

}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // ProductSKU
    //
    // * Status
    //
    // * Fingerprint
    //
    // * IssuerName
    //
    // * Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {
// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
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"
// 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
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}
unc (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }

    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns ...
    func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
    c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
type DisassociateLicenseInput struct {

// The type of license to remove from the workspace.
//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to remove the Grafana Enterprise license from.
//
// This member is required.
WorkspaceId *string

}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

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

}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
  if err != nil {
    return err
  }
  err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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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"
}
// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string

    noSmithyDocumentSerde
}

type GetLicenseOutput struct {

    // License details.
    License *types.License

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

    noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != 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 = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "GetLicense",
    }
}

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

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
        c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}
type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string

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}

type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.\nNodeId *string

// Signed token.
SignedToken *string

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

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func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options *Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
}
if err = 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.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {
    // Checkout type.
    // // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    // // This member is required.
    ClientToken *string

    // License entitlements.
    // // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
//
// This member is required.
// KeyFingerprint *string

// Product SKU.
//
// This member is required.
// ProductSKU *string

// License beneficiary.
// Beneficiary *string

// Node ID.
// NodeId *string

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}

type CheckoutLicenseOutput struct {

    // Checkout type.
    CheckoutType types.CheckoutType

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource Name (ARN) of the checkout license.
    LicenseArn *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

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

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

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.
 func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = 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
    }
}
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.
if err != nil {
    return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil

// Amazon Resource Name (ARN) of the license.
// This member is required.
LicenseArn *string

// Current version of the license.
// This member is required.
SourceVersion *string

// Date when the license is deleted.
// License status.
// Metadata pertaining to the operation's result.
DeletionDate *string
Status types.LicenseDeletionStatus
ResultMetadata middleware.Metadata

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = 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
}

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
}

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
    }
}

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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 = 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) *aws middleware.RegisterServiceMetadata {
    return &aws middleware.RegisterServiceMetadata{
        Region:    region,
ServiceID: ServiceID,
SigningName: "grafana",
OperationName: "AssociateLicense",
}

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

package licensemanager

import (  
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {  
    if params == nil {  
        params = &CreateLicenseInput{}  
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,  
        c.addOperationCreateLicenseMiddlewares)
    if err != nil {  
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    // //
    // // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    // //
    // // This member is required.
    ClientToken *string
// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.

// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.

// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.

// This member is required.
HomeRegion *string

// License issuer.

// This member is required.
Issuer *types.Issuer

// License name.

// This member is required.
LicenseName *string

// Product name.

// This member is required.
ProductName *string

// Product SKU.

// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.

// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

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}
type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

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

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",
    }
}
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

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1.1719 github.com/aws/aws-sdk-go-v2/service/internal/presigned-url 1.0.6
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package licensemanager

import {
    "context"
    aws middeware "github.com/aws/aws-sdk-go-v2/aws/middeware"  
    "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/middeware"  
    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 []types.Filter
}

// 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 = 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 = 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: ${{ matrix.python-version }}
      - name: Run Scan code on target
        run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$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 >> old-licenses.txt
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

    noSmithyDocumentSerde
}
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
  }
  if err = addClientUserAgent(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
  }
}
func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckInLicense",
    }
}

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package grafana

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns ...
    func(*Options)) (*DisassociateLicenseOutput, error) {


if params == nil {
    params = &DisassociateLicenseInput{
    }
}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns, c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil


type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string

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}

type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

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

    noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
    if err != nil {
        return err
    }

    return nil
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.AddComputePayloadSHASHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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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"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string

    noSmithyDocumentSerde
}

type GetLicenseOutput struct {

    // License details.
    License *types.License

// Metadata pertaining to the operation's result.

ResultMetadata middleware.Metadata

noSmithyDocumentSerde

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != 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 = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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

package licensemanager

import {
    "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
params := &CheckoutBorrowLicenseInput{ }
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string

    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
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
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 = 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
```go
func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}

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

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{
    }
}

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {
    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType
```
// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

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 = 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 = 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 {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return 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 (
// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
        c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *[Beneficiary]
    //
    // *
    // ProductSKU
    //
    // *
    // Fingerprint
    //
    // *
    // Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string
}
type ListLicensesOutput struct {
    // License details.
    Licenses []types.License
    // Token for the next set of results.
    NextToken *string
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

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

// 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"
// 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 {
    }
}
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/smitty-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

// 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

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
    }
    return
}
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

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

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

package licensemanager

import (  
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
        c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}
type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
    // This member is required.
    HomeRegion *string

    // License issuer.
    //
    // This member is required.
    Issuer *types.Issuer

    // 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 = awsrecord.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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1.1724 dennwc-varint 1.0.0

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1.1727 k8s-io-client-go v0.18.6

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1.1729 go-autorest 0.11.20

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1.1730 github.com/imdariomergo v0.3.11

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

fields:
  site: string
  author: root

1.1731 charset-normalizer 2.0.8

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compiler/cpp/src/generate/t_st_generator.cc
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 */
```

For lib/py/compat/win32/stdint.h

```plaintext
// 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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**go-metrics v0.0.0-20180917152333-f0300d1749da**

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1.1738 github.com/antlr/antlr4 v0.0.0-
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1.1755 kerberos 1.19.2

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cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
and the initial implementation of incremental propagation, including
the following new or changed files:

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

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1.1758 lsb 10.2019051400

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1.1761 httpcomponents-core 4.4.13

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1.1763 x-net 0.0.0-20210520170846-37e1c6afe023

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1.1765 rcrowley-go-metrics 0.0.0-
20200313005456-10cdbea86bc0

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1.1766 gogo-protobuf v1.3.1

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1.1769 prometheus-procfs 0.6.0

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

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1.1770 x-time-rate v0.0.0-20191024005414-555d28b269f0

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1.1774 go-grpc-prometheus v1.2.0

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1.1782 intern v1.0.0

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1.1783 jackc-pgtype 1.3.0

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1.1784 go-pubsub 1.2.0
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"
    compute "cloud.google.com/go/compute/apiv1"
    "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.
}
def 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.
}
def 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.
    }
func ExampleLicensesClient_ListLicenses() {
    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
}
func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
        
        // 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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// 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"
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.

```go
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.

```go
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.

```go
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.

```go
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.

```go
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    return
```
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", c.versionClient, "gax", gax.Version, "rest", "UNKNOWN")  
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

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

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

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

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

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

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

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

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}
if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
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  
}  
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.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.  
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {  
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
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
}
defer httpRsp.Body.Close()

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

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

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

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

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

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

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

  baseUrl.RawQuery = params.Encode()

  if err != nil {
    return nil, err
  }

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

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

  defer httpRsp.Body.Close()

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

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

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

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

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

definitionPath := 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"] = ["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
        return nil, maybeUnknownEnum(err)
    }
}
it.items = nil
return b
}

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END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.
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,
    }
    return c, nil
}
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([]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
}
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.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.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    // 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
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(*computepb.TestPermissionsResponse, error) {
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    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

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

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

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1.1787 x-xerrors 0.0.0-20200804184101-5ec99f83aff1

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
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lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

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

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1.1810 github.com/wvanbergen/kafka 0.0.0-20171203153745-e2edea948ddf
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1.813 Go-autorest-tracing 0.6.0

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1.1814 google-cloud-go v0.79.0

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1.1818 google-go-cmp 0.5.2

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1.1820 jackc-pgconn 1.5.0

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1.1821 influxdata-go-syslog 2.0.1

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1.1822 go.mongodb.org-mongo-driver 1.1.2

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Protocol Buffers for Go with Gadgets

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

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---
layout: "api"
page_title: '/sys/license - HTTP API'
sidebar_title: "<code>/sys/license</code>"
sidebar_current: "api-http-system-license"
description: |-
The `/sys/license` endpoint is used to view and update the license used in
Vault.
---

# `/sys/license`

-> **Enterprise Only** These endpoints require Vault Enterprise.

The `/sys/license` endpoint is used to view and update the license used in
Vault.

## Read License

This endpoint returns information about the currently installed license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/sys/license</code></td>
<td></td>
</tr>
</tbody>
</table>

### Sample Request

```bash
$ curl \
--header "X-Vault-Token: ..." \
http://127.0.0.1:8200/v1/sys/license
```

### Sample Response

```json
{
  "data": {
    "expiration_time": "2017-11-14T16:34:36.546753-05:00",
    "features": [
      "UI",
      "HSM",
      "Performance Replication",
      "DR Replication"
    ],
    "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
  },
  "warnings": [
    "time left on license is 29m33s"
  ]
}
```

## Install License

This endpoint is used to install a license into Vault.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/sys/license</code></td>
<td></td>
</tr>
</tbody>
</table>

### Parameters
- `text` `(string: <required>)` The text of the license.

*DR Secondary Specific Parameters*

- `dr_operation_token` `(string: <required>)` - DR operation token used to authorize this request.

### Sample Payload

```json
{
  "text": "01ABCDEFG..."
}
```

### Sample Request

```bash
$ curl
   --header "X-Vault-Token: ..."
   --request PUT
   --data @payload.json
   http://127.0.0.1:8200/v1/sys/license
```

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BSON library for Go

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mgo - MongoDB driver for Go

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package github

import (
    "context"
    "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"
    Path *string `json:"path,omitempty"
    SHA  *string `json:"sha,omitempty"
    Size *int `json:"size,omitempty"
    URL *string `json:"url,omitempty"
    HTMLURL *string `json:"html_url,omitempty"
    GitURL *string `json:"git_url,omitempty"
    DownloadURL string `json:"download_url,omitempty"
    Type *string `json:"type,omitempty"
    Content *string `json:"content,omitempty"
    Encoding *string `json:"encoding,omitempty"
    License *License `json:"license,omitempty"
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key,omitempty"
    Name *string `json:"name,omitempty"
    URL  *string `json:"url,omitempty"
    SPDXID *string `json:"spdx_id,omitempty"
    HTMLURL *string `json:"html_url,omitempty"
Featured       *bool     `json:"featured,omitempty"`
Description    *string   `json:"description,omitempty"`
Implementation *string   `json:"implementation,omitempty"`
Permissions    *[]string `json:"permissions,omitempty"`
Conditions     *[]string `json:"conditions,omitempty"`
Limitations    *[]string `json:"limitations,omitempty"`
Body           *string   `json:"body,omitempty"

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) (*[]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    var licenses [][]*License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }
    return licenses, resp, nil
}

// Get extended metadata for one license.
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }
    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }
    return license, resp, err
}
return license, resp, nil
}

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// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
return false
}

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1.1833 github.com/aerospike/aerospike-client-go 1.27.0

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1.1836 klog v1.0.0

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1.1837 googlecloudgo v0.51.0

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

package compute_test

import (  
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    "google.golang.org/api/iterator"
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.
    _ = 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.
}
deferr 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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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (  "bytes"  "context"
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{}}
}

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

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

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

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

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

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

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

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

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

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

    if err != nil {
        return nil, err
    }
    httpReq = 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)

    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 := &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
}
defer httpRsp.Body.Close()

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

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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, len, 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)
basedPath := fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", c.project, c.resource)
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
}

dery 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
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req *compute pb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute pb.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 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 *compute pb.License.
type LicenseIterator struct {
    items    []*compute pb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

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

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

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

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

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

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

package compute

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

    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 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,
        xGoogMetadata: xGoogMetadata,
    }

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

    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
}
derive 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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*/opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/address/DynamicAddressConnectHandler.java
*/opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
*/opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/OpenSslPrivateKey.java
*/opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
*/opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/address/package-info.java
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jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/stream/ChunkedFile.java
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jar/io/netty/handler/stream/package-info.java
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jar/io/netty/handler/timeout/package-info.java
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jar/io/netty/handler/stream/ChunkedStream.java
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jar/io/netty/handler/timeout/TimeoutException.java
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jar/io/netty/handler/timeout/IdleStateEvent.java
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jar/io/netty/handler/timeout/IdleStateHandler.java
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jar/io/netty/handler/stream/ChunkedInput.java
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jar/io/netty/handler/logging/LoggingHandler.java
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jar/io/netty/handler/timeout/WriteTimeoutException.java
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jar/io/netty/handler/ssl/SslHandler.java
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jar/io/netty/handler/ssl/package-info.java
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jar/io/netty/handler/ssl/util/package-info.java
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jar/io/netty/handler/stream/ChunkedWriteHandler.java
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jar/io/netty/handler/logging/package-info.java
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jar/io/netty/handler/timeout/IdleState.java
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jar/io/netty/handler/timeout/WriteTimeoutHandler.java
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jar/io/netty/handler/timeout/ReadTimeoutHandler.java
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jar/io/netty/handler/stream/ChunkedNioStream.java
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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/SslProvider.java
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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java
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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java
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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilter.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/HandshakeTimeoutException.java

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  jar/io/netty/handler/ssl/SslContextOption.java
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  jar/io/netty/handler/ssl/SslClientSessionCache.java
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  jar/io/netty/handler/ssl/OpenSslSessionId.java
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  jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
  jar/io/netty/handler/ssl/OpenSslContextOption.java

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1.1848 netty-buffer 4.1.63.Final

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* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
  jar/io/netty/buffer/WrappedCompositeByteBuf.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
  jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
  jar/io/netty/buffer/PooledSlicedByteBuf.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
  jar/io/netty/buffer/PooledDuplicatedByteBuf.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
  jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
  jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
  jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
* /opt/cola/permits/1199756627_1630579409.55/0/netty-buffer-4-1-63-final-sources-1-
1.1849 inf-v0 v0.9.1

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fields:
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>
* admin/check-style.sh, admin/check-style-common.awk, 
  admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, 
  except the first one, were first implemented in the Buildtool project. 
  They were later adapted to be part of Boost.Process and, during that 
  process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>
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* /opt/ws_local/PERMITS_SQL/1078286973_1597285663.32/0/jackson-mapper-asl-1-9-13-sources-2-jar/org/codehaus/jackson/map/MappingJsonFactory.java

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1.1904 github.com/robfig/cron v1.2.0

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 cmd/krb5/slave/kpropd_rpc.c
 lib/gss_mechs/mech_krb5/et/kdb5_err.c
 lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
 lib/gss_mechs/mech_spnego/mech/spnego_mech.c
 lib/krb5/kadm5/kadm_host_srv_names.c
 lib/krb5/kdb/kdb_convert.c
 lib/krb5/kdb/kdb_hdr.h
 lib/krb5/kdb/kdb_log.c
 lib/krb5/kdb/kdb_log.h
 lib/libgss/g_accept_sec_context.c
 lib/libgss/g_acquire_cred.c
 lib/libgss/g_canon_name.c
 lib/libgss/g_compare_name.c
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    // WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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    // limitations under the License.

package spec

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

var license = License{
    LicenseProps: LicenseProps{Name: "the name", URL: "the url"},
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}
}
const licenseJSON = `{
"name": "the name",
"url": "the url",
"x-license": "custom term"
}`

func TestIntegrationLicense(t *testing.T) {

    // const licenseYAML = "name: the name\nurl: the url\n"

    b, err := json.MarshalIndent(license, "", "\t")
    if assert.NoError(t, err) {
        assert.Equal(t, licenseJSON, string(b))
    }

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

    err = json.Unmarshal([]byte(licenseJSON), &actual)
    if assert.NoError(t, err) {
        assert.EqualValues(t, license, actual)
    }
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    // WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
    // See the License for the specific language governing permissions and
    // limitations under the License.
// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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Portions of the client are based on code at:
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1.1941 go-autorest-auth 0.5.7

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1.1942 jwt-go 3.2.3+incompatible

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1.1944 grpc v1.34.0

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1.1947 grpc-ecosystem-grpc-gateway 1.16.0

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1.1962 groupcache v0.0.0-20191227052852-215e87163ea7

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1.1969 go-sockaddr 1.0.2

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Version 2.1, February 1999
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) SRCFile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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  jar/org/apache/xerces/impl/xs/traversers/XSHandler.java
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  jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java
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*/
/**
 * Checks if this content model has had its min/maxOccurs values reduced for
 * purposes of speeding up UPA. If so, this content model should not be used
 * for any purpose other than checking unique particle attribution
 * @return a boolean that says whether this content has been compacted for UPA
 */

Found in path(s):
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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 */
/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new <code>LSParser</code>. The newly constructed parser may
 * then be configured by means of its <code>DOMConfiguration</code>
 * object, and used to parse documents by means of its <code>parse</code>
 * method.
 * @param mode The <code>mode</code> argument is either
 * <code>MODE_SYNCHRONOUS</code> or <code>MODEASYNCHRONOUS</code>, if
 * <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
* <code>LSParser</code> that is created will operate in synchronous
* mode, if it's <code>MODEASYNCHRONOUS</code> then the
* <code>LSParser</code> that is created will operate in asynchronous
* mode.
* @param schemaType  An absolute URI representing the type of the schema
* language used during the load of a <code>Document</code> using the
* newly created <code>LSParser</code>. Note that no lexical checking
* is done on the absolute URI. In order to create a
* <code>LSParser</code> for any kind of schema types (i.e. the
* LSParser will be free to use any schema found), use the value
* <code>null</code>.
* <p><b>Note:</b> For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/'>XML Schema Part 1</a>]
* , applications must use the value
* <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
* applications must use the value
* <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
* are outside the scope of the W3C and therefore should recommend an
* absolute URI in order to use this method.
* @return  The newly created <code>LSParser</code> object. This
* <code>LSParser</code> is either synchronous or asynchronous
* depending on the value of the <code>mode</code> argument.
* <p><b>Note:</b> By default, the newly created <code>LSParser</code>
* does not contain a <code>DOMErrorHandler</code>, i.e. the value of
* the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>error-handler</a>"
* configuration parameter is <code>null</code>. However, implementations
* may provide a default error handler at creation time. In that case,
* the initial value of the <code>"error-handler"</code> configuration
* parameter on the new created <code>LSParser</code> contains a
* reference to the default error handler.
* @exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
*/

Found in path(s):
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java

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1.1990 tomb 2.0.0-20161208151619-d5d1b5820637
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    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
            "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.
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package cmd

func initBsdClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{
            "bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: "All rights reserved.
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    Licenses["gpl2"] = License{
        Name:            "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `This program is free software; you can redistribute it and/or
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package cmd

func initGpl3() {
    Licenses["gpl3"] = License{
        Name:   "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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package cmd

func initApache2() {
    Licenses["apache"] = License{
        Name:            "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `Licensed under the Apache License, Version 2.0 (the "License");
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func initMit() {
    Licenses["mit"] = License{
        Name:            "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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    }
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1.2024 github.com/aws/aws-sdk-go-v2/service/ec2 1.1.0

1.2024.1 Available under license:

// 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 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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}
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 }}
        > refDiffFiles.txt
        ${{ 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
}

type CheckInLicenseOutput struct {

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

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
  if err != nil {
    return err
  }
  err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
}

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary *string
}

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
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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

import (
    "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns ...
func(*Options)) (*DisassociateLicenseOutput, error) {
if params == nil {
    params = &DisassociateLicenseInput{ }
}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {
    // The type of license to remove from the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string
}

type DisassociateLicenseOutput struct {
    // A structure containing information about the workspace.
    //
// This member is required.
Workspace *types.WorkspaceDescription

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

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func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {  
  err = stack.Serialize.Add(&awsRestjson1 SerializeOpDisassociateLicense{}, middleware.After)  
  if err != nil {  
    return err  
  }  
  err = stack.Deserialize.Add(&awsRestjson1 DeserializeOpDisassociateLicense{}, middleware.After)  
  if err != nil {  
    return err  
  }  
  if err = addSetLoggerMiddleware(stack, options); err != nil {  
    return err  
  }  
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {  
    return err  
  }  
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {  
    return err  
  }  
  if err = addResolveEndpointMiddleware(stack, options); err != nil {  
    return err  
  }  
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {  
    return err  
  }  
  if err = addRetryMiddlewares(stack, options); err != nil {  
    return err  
  }  
  if err = addHTTPSignerV4Middleware(stack, options); err != nil {  
    return err  
  }  
  if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {  
    return err  
  }  
  if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {  
    return err  
  }  
  if err = addClientUserAgent(stack); err != nil {  
    return err  
  }
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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

package licensemanager

import (
    "context"
    awsrmiddleware "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/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.

// This member is required.
LicenseArn *string

// License version.
Version *string

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}

type GetLicenseOutput struct {

// License details.
License *types.License

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

noSmithyDocumentSerde
}

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
  }
  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 = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
    err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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

package licensemanager
import {
    "context"
    "awsmiddleware" "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData
// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

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}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

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

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}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
Open Source Used In kASA v1.5
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

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

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

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {

return nil, err
}

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {
  // Checkout type.
  // // This member is required.
  CheckoutType types.CheckoutType
  // Unique, case-sensitive identifier that you provide to ensure the idempotency of
  // the request.
  // // This member is required.
  ClientToken *string
  // License entitlements.
  // // This member is required.
  Entitlements []types.EntitlementData
  // Key fingerprint identifying the license.
  // // This member is required.
  KeyFingerprint *string
  // Product SKU.
  // // This member is required.
  ProductSKU *string
  // License beneficiary.
  Beneficiary *string
  // Node ID.
  NodeId *string

  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.\nNodeId *string

// Signed token.
SignedToken *string

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

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func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    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
    }
}
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = httpSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(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_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // 
    // * ProductSKU
//
// * Fingerprint
//
// * Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

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}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = 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); 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,
// 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
type DeleteLicenseOutput struct {

    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

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

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    return 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"
// 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 (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).

```go
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
}
```

```go
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
}

type AssociateLicenseOutput struct {
    // A structure containing data about the workspace.
    // // This member is required.
    Workspace *types.WorkspaceDescription
}
```
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
    }

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
    noSmithyDocumentSerde
}
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/smithy-go/transport/http"
}

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {

if params == nil {
    params = &CreateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, c.addOperationCreateLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
    // This member is required.
    HomeRegion *string

    // License issuer.
    //
    // This member is required.
}
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

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

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package licensemanager

import (  
  "context"  
  "github.com/aws/aws-sdk-go-v2/aws/middleware"  
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
  "github.com/aws/smithy-go/middleware"  
  "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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}
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
}
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
        run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }} > refDiffFiles.txt
        ${{ github.sha }} > refDiffFiles.txt
      - name: Get Diff
        run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
        ${{ github.sha }} > refDiffFiles.txt
      - name: Get Target Files
        run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
      - name: Checkout scancode
        uses: actions/checkout@v2
        with:
          repository: nexB/scancode-toolkit
          path: scancode-toolkit
          fetch-depth: 1
      - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
with:
  python-version: ${{ matrix.python-version }}

# ScanCode
- name: Self-configure scancode
  working-directory: ./scancode-toolkit
  run: /scancode --help
- name: Run Scan code on target
  run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt

# compare
- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses are the same. Success."; exit 0; fi

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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

noSmithyDocumentSerde
}

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
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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

package grafana

import (
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

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}

type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription
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 = 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
    }
}

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

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}
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",
    }
}

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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"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    
    // This member is required.
    LicenseArn *string
}
// License version.
Version *string

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}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

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

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

import (  "context"
// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
/** This member is required. **
LicenseArn *string

/ Information about constraints. 
CheckoutMetadata []types.Metadata

/ Node ID. 
NodeId *string

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}

type CheckoutBorrowLicenseOutput struct {

/ Information about constraints. 
CheckoutMetadata []types.Metadata 

/ Allowed license entitlements. 
EntitlementsAllowed []types.EntitlementData 

/ Date and time at which the license checkout expires. 
Expiration *string

/ Date and time at which the license checkout is issued. 
IssuedAt *string

/ Amazon Resource Name (ARN) of the license. 
LicenseArn *string

/ License consumption token. 
LicenseConsumptionToken *string

/ Node ID. 
NodeId *string

/ Signed token. 
SignedToken *string

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

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}

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


return err
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = 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 = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:     region,
        ServiceID:  ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}

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

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, 
    c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    return result, err
}
out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {

// Checkout type.
// //
// // This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
// //
// // This member is required.
ClientToken *string

// License entitlements.
// //
// // This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
// //
// // This member is required.
KeyFingerprint *string

// Product SKU.
// //
// // This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

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}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.\nNodeId *string

// Signed token.
SignedToken *string

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

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}

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

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region, 
        ServiceID: ServiceID, 
        SigningName: "license-manager", 
    }
}
// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // Beneficiary
    //
    // * ProductSKU
    //
    // * Fingerprint
    //
type ListLicensesOutput struct {

  // License details.
  Licenses []types.License

  // Token for the next set of results.
  NextToken *string

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

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
  if err != nil {
    return err
  }
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = 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
  }
  return 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_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

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

import {
    "context"
    awsmediumware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {
    // Amazon Resource Name (ARN) of the license.
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    // This member is required.
    SourceVersion *string

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}

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

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 = 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 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"
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana Enterprise incurs additional fees. For more information, see Upgrade a workspace (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).

func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options)) (*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns, c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*AssociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type AssociateLicenseInput struct {
    // The type of license to associate with the workspace.
    // This member is required.
    LicenseType types.LicenseType

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

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
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 = 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.CloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{ }
    }
}
result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, c.addOperationCreateLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
    // This member is required.
    HomeRegion *string

    // License issuer.
    //
    // This member is required.
    Issuer *types.Issuer

    // 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 = 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 = 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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1.2029 apr 1.6.5

1.2030 zmq4 v1.2.1

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1.2031 common v0.10.0

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1.2032 github.com/youmark/pkcs8 0.0.0-20201027041543-1326539a0a0a

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1.2033 semver v3.5.0+incompatible

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1.2034 containerd 1.5.0-beta.4

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

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github.com/pelletier/go-toml:

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localtime.go, localtime_test.go:

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Changes:
  * Renamed files from civil* to localtime*.
  * Package changed from civil to toml.
  * 'Local' prefix added to all structs.
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1.2037 gopher-lua 0.0.0-20180630135845-46796da1b0b4

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1.2040 libsemanage 2.6-2

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**1.2041 util-linux 2.29.2-1+deb9u1**

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7zXZFt/5JoK3&K6Y^0P9]{s36R}m.S(bCb7S<DP("ka")"oy`r)7I%tU6@AS.SmOlf3whA!!WIMcK'e/eJ1F
gBIW[jf_[JpjoMd3rFq+]_3<%<6jx_]11D5eg;NtD++R]w[xiue@F#Em0hUt..x[R7Y2!Vq~AG{EX-
"Oh"*5x)"xN#5w=1:999X1i1:"P+=22cm3j}0o9nB qN&=][spPe:ab.6f&v/Rs>O./OW]iNy(BM~]-ufSNg]"_W[0;
OXy[aB="/u/~fQHO(3[b%o]+o&Qd)_d<QdLd=$1p!h0h6mN=I+GNRk gK0L3|N3"gXfIC
zCTTjI5SgE11Qq$7*5++Y=4Xt9V?r3_Vd2o8h+F8~qM.Zl6=Qgtw11np_+?zpt:H|E2NzWW_WmA,
FSYZe*-exTWFf#]
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rj>kR>aXrvXS~"9=USpuaqQb;k.kD5(fa&#
?}w)nz>SbvY[R+t[ BS=)d;*:l;:_>KfBqxY(F][0.Ve%S61opMG
1%Qs|l1np)#(+*uM%S61opMG`\YfRXvY[R+r[t BS=)d;*:l;:_>KfBqxY(F][0.Ve%S61opMG`\YfRXvY[R+r[t BS=)d;*:l;:_>KfB]
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<signature of Ty Coon>, 1 April 1990
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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
}
noSmithyDocumentSerde

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
  }
  return nil
}
return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

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

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

package grafana

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

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}

type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

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

    noSmithyDocumentSerde
func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    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",
    }
}

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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"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
  if params == nil {
    params = &GetLicenseInput{
  }

  result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
    c.addOperationGetLicenseMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*GetLicenseOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type GetLicenseInput struct {

  // Amazon Resource Name (ARN) of the license.
  // This member is required.
  LicenseArn *string

  // License version.
  Version *string

  //
type GetLicenseOutput struct {

    // 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
    }
    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
    }
}
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 = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

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

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

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
// 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
}

// Requirements:

// 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.
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
}

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

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

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

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }
    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}
type CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

    // Product SKU.
    //
    // This member is required.
    ProductSKU *string

    // License beneficiary.
    Beneficiary *string

    // Node ID.
    NodeId *string

    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

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

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {
    // Filters to scope the results. The following filters are supported:
    //
    // * Beneficiary
    //
    // * ProductSKU
    //
    // * Fingerprint
    //
    // * Status
    Filters []types.Filter
}
// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {
    // License details.
    Licenses []types.License
    // Token for the next set of results.
    NextToken *string
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
    noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != 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
    }
}
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(opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

// 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

// A structure containing data about the workspace.
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializetOpAssociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializetOpAssociateLicense{}, 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
    }
    return nil
}
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{ }
    }
    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, 

c.addOperationCreateLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
    // This member is required.
    HomeRegion *string

    // License issuer.
    //
    // This member is required.
    Issuer *types.Issuer

    // License name.
    //
    // This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

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}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

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

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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//DataInQueryLicenses is a nested struct in linkface response
type DataInQueryLicenses struct {
    DataItem []DataItem `json:"DataItem" xml:"DataItem"
}

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package ocr

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import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// RecognizeDriverLicense invokes the ocr.RecognizeDriverLicense API synchronously
func (client *Client) RecognizeDriverLicense(request *RecognizeDriverLicenseRequest) (response *RecognizeDriverLicenseResponse, err error) {
    response = CreateRecognizeDriverLicenseResponse()
    err = client.DoAction(request, response)
    return
}

// RecognizeDriverLicenseWithChan invokes the ocr.RecognizeDriverLicense API asynchronously
func (client *Client) RecognizeDriverLicenseWithChan(request *RecognizeDriverLicenseRequest) (<-chan *RecognizeDriverLicenseResponse, <-chan error) {
    responseChan := make(chan *RecognizeDriverLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.RecognizeDriverLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    err := client.AddAsyncTask(func() {
        defer close(errChan)
        response, err := client.RecognizeDriverLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
    }
    close(responseChan)
close(errChan)
}
return responseChan, errChan
}

// RecognizeDriverLicenseWithCallback invokes the ocr.RecognizeDriverLicense API asynchronously
func (client *Client) RecognizeDriverLicenseWithCallback(request *RecognizeDriverLicenseRequest, callback func(response *RecognizeDriverLicenseResponse, err error)) <-chan int {
result := make(chan int, 1)
err := client.AddAsyncTask(func() {
var response *RecognizeDriverLicenseResponse
var err error
defer close(result)
response, err = client.RecognizeDriverLicense(request)
callback(response, err)
result <- 1
})
if err != nil {
defer close(result)
callback(nil, err)
result <- 0
}
return result
}

// RecognizeDriverLicenseRequest is the request struct for api RecognizeDriverLicense
type RecognizeDriverLicenseRequest struct {
*requests.RpcRequest
ImageType requests.Integer `position:"Body" name:"ImageType"`
Side string `position:"Body" name:"Side"`
ImageURL string `position:"Body" name:"ImageURL"`
}

// RecognizeDriverLicenseResponse is the response struct for api RecognizeDriverLicense
type RecognizeDriverLicenseResponse struct {
*responses.BaseResponse
RequestId string `json:"RequestId" xml:"RequestId"`
Code string `json:"Code" xml:"Code"`
Message string `json:"Message" xml:"Message"`
Data Data `json:"Data" xml:"Data"`
}

// CreateRecognizeDriverLicenseRequest creates a request to invoke RecognizeDriverLicense API
func CreateRecognizeDriverLicenseRequest() (request *RecognizeDriverLicenseRequest) {
request = &RecognizeDriverLicenseRequest{
RpcRequest: &requests.RpcRequest{
}
request.InitWithApiInfo("ocr", "2019-12-30", "RecognizeDriverLicense", "ocr", "openAPI")
request.Method = requests.POST
return
}

// CreateRecognizeDriverLicenseResponse creates a response to parse from RecognizeDriverLicense response
func CreateRecognizeDriverLicenseResponse() (response *RecognizeDriverLicenseResponse) {
    response = &RecognizeDriverLicenseResponse{
        BaseResponse: &responses.BaseResponse{},
    }
    return
}

package mts

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import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// GetLicense invokes the mts.GetLicense API synchronously
func (client *Client) GetLicense(request *GetLicenseRequest) (response *GetLicenseResponse, err error) {
    response = CreateGetLicenseResponse()
    err = client.DoAction(request, response)
    return
}

// GetLicenseWithChan invokes the mts.GetLicense API asynchronously
func (client *Client) GetLicenseWithChan(request *GetLicenseRequest) (<-chan *GetLicenseResponse, <-chan error) {
    responseChan := make(chan *GetLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response = CreateGetLicenseResponse()
        err = client.DoAction(request, response)
        responseChan <- response
        errChan <- err
    })
    return responseChan, errChan
}
response, err := client.GetLicense(request)
if err != nil {
    errChan <- err
} else {
    responseChan <- response
}
}
if err != nil {
    errChan <- err
    close(responseChan)
    close(errChan)
}
return responseChan, errChan

// GetLicenseWithCallback invokes the mts.GetLicense API asynchronously
func (client *Client) GetLicenseWithCallback(request *GetLicenseRequest, callback func(response *GetLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *GetLicenseResponse
        var err error
        defer close(result)
        response, err = client.GetLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// GetLicenseRequest is the request struct for api GetLicense
type GetLicenseRequest struct {
    *requests.RpcRequest
    ResourceOwnerId      string `position:"Query" name:"ResourceOwnerId"`
    Data                 string `position:"Query" name:"Data"`
    Type                 string `position:"Query" name:"Type"`
    ResourceOwnerAccount string `position:"Query" name:"ResourceOwnerAccount"`
    OwnerAccount         string `position:"Query" name:"OwnerAccount"`
    OwnerId              string `position:"Query" name:"OwnerId"`
    MediaId              string `position:"Query" name:"MediaId"`
    Header               string `position:"Query" name:"Header"`
    LicenseUrl           string `position:"Query" name:"LicenseUrl"`
}
// GetLicenseResponse is the response struct for api GetLicense
type GetLicenseResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId"`
    License   string `json:"License" xml:"License"`
}

// CreateGetLicenseRequest creates a request to invoke GetLicense API
func CreateGetLicenseRequest() (request *GetLicenseRequest) {
    request = &GetLicenseRequest{
        RpcRequest: &requests.RpcRequest{
        }
    }
    request.InitWithApiInfo("Mts", "2014-06-18", "GetLicense", "mts", "openAPI")
    request.Method = requests.POST
    return
}

// CreateGetLicenseResponse creates a response to parse from GetLicense response
func CreateGetLicenseResponse() (response *GetLicenseResponse) {
    response = &GetLicenseResponse{
        BaseResponse: &responses.BaseResponse{
        }
    }
    return
}

package market

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import (  
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"  
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// ActivateLicense invokes the market.ActivateLicense API synchronously
func (client *Client) ActivateLicense(request *ActivateLicenseRequest) (response *ActivateLicenseResponse, err error) {
    response = CreateActivateLicenseResponse()
    err = client.DoAction(request, response)
    return
}

// ActivateLicenseWithChan invokes the market.ActivateLicense API asynchronously
func (client *Client) ActivateLicenseWithChan(request *ActivateLicenseRequest) (<-chan *ActivateLicenseResponse, <-chan error) {
    responseChan := make(chan *ActivateLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.ActivateLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
    }
    return responseChan, errChan
}

// ActivateLicenseWithCallback invokes the market.ActivateLicense API asynchronously
func (client *Client) ActivateLicenseWithCallback(request *ActivateLicenseRequest, callback func(response *ActivateLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *ActivateLicenseResponse
        var err error
        defer close(result)
        response, err = client.ActivateLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
defer close(result)
callback(nil, err)
result <- 0
}
return result

// ActivateLicenseRequest is the request struct for api ActivateLicense
type ActivateLicenseRequest struct {
*requests.RpcRequest
Identification string `position:"Query" name:"Identification"
LicenseCode string `position:"Query" name:"LicenseCode"
}

// ActivateLicenseResponse is the response struct for api ActivateLicense
type ActivateLicenseResponse struct {
*responses.BaseResponse
RequestId string `json:"RequestId" xml:"RequestId"
Success bool `json:"Success" xml:"Success"
}

// CreateActivateLicenseRequest creates a request to invoke ActivateLicense API
func CreateActivateLicenseRequest() (request *ActivateLicenseRequest) {
request = &ActivateLicenseRequest{
RpcRequest: &requests.RpcRequest{
}
request.InitWithApiInfo("Market", "2015-11-01", "ActivateLicense", "yunmarket", "openAPI")
return
}

// CreateActivateLicenseResponse creates a response to parse from ActivateLicense response
func CreateActivateLicenseResponse() (response *ActivateLicenseResponse) {
response = &ActivateLicenseResponse{
BaseResponse: &responses.BaseResponse{
}
return
}

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package ocr

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import {
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
}

// RecognizeLicensePlate invokes the ocr.RecognizeLicensePlate API synchronously
func (client *Client) RecognizeLicensePlate(request *RecognizeLicensePlateRequest) (response
    *RecognizeLicensePlateResponse, err error) {
    response = CreateRecognizeLicensePlateResponse()
    err = client.DoAction(request, response)
    return
}

// RecognizeLicensePlateWithChan invokes the ocr.RecognizeLicensePlate API asynchronously
func (client *Client) RecognizeLicensePlateWithChan(request *RecognizeLicensePlateRequest) (<-chan
    *RecognizeLicensePlateResponse, <-chan error) {
    responseChan := make(chan *RecognizeLicensePlateResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.RecognizeLicensePlate(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
    } else {
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

// RecognizeLicensePlateWithCallback invokes the ocr.RecognizeLicensePlate API asynchronously
func (client *Client) RecognizeLicensePlateWithCallback(request *RecognizeLicensePlateRequest, callback
    func(response *RecognizeLicensePlateResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *RecognizeLicensePlateResponse
        var err error
        defer close(result)
        response, err = client.RecognizeLicensePlate(request)
        callback(response, err)
    })
    return result
}
result <- 1
}
if err != nil {
    defer close(result)
callback(nil, err)
result <- 0
}
return result

// RecognizeLicensePlateRequest is the request struct for api RecognizeLicensePlate
type RecognizeLicensePlateRequest struct {
    *requests.RpcRequest
    ImageType requests.Integer `position:"Body" name:"ImageType"
    ImageURL string `position:"Body" name:"ImageURL"
}

// RecognizeLicensePlateResponse is the response struct for api RecognizeLicensePlate
type RecognizeLicensePlateResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId"
    Code string `json:"Code" xml:"Code"
    Message string `json:"Message" xml:"Message"
    Data Data `json:"Data" xml:"Data"
}

// CreateRecognizeLicensePlateRequest creates a request to invoke RecognizeLicensePlate API
func CreateRecognizeLicensePlateRequest() (request *RecognizeLicensePlateRequest) {
    request = &RecognizeLicensePlateRequest{
        RpcRequest: &requests.RpcRequest{
    }
    request.InitWithApiInfo("ocr", "2019-12-30", "RecognizeLicensePlate", "ocr", "openAPI")
    request.Method = requests.POST
    return
}

// CreateRecognizeLicensePlateResponse creates a response to parse from RecognizeLicensePlate response
func CreateRecognizeLicensePlateResponse() (response *RecognizeLicensePlateResponse) {
    response = &RecognizeLicensePlateResponse{
        BaseResponse: &responses.BaseResponse{
    }
    return
}

package ocr

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// PositionsInRecognizeLicensePlate is a nested struct in ocr response
type PositionsInRecognizeLicensePlate struct {
    Positions []Positions `json:"positions" xml:"positions"`
}

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import (  
"github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"  
"github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// RecognizeBusinessLicense invokes the ocr.RecognizeBusinessLicense API synchronously  
func (client *Client) RecognizeBusinessLicense(request *RecognizeBusinessLicenseRequest) (response *RecognizeBusinessLicenseResponse, err error) {  
response = CreateRecognizeBusinessLicenseResponse()  
err = client.DoAction(request, response)  
return
}

// RecognizeBusinessLicenseWithChan invokes the ocr.RecognizeBusinessLicense API asynchronously  
func (client *Client) RecognizeBusinessLicenseWithChan(request *RecognizeBusinessLicenseRequest) (<-chan *RecognizeBusinessLicenseResponse, <-chan error) {  
responseChan := make(chan *RecognizeBusinessLicenseResponse, 1)  
errChan := make(chan error, 1)  
err := client.AddAsyncTask(func() {  
defer close(responseChan)  
defer close(errChan)  
response, err := client.RecognizeBusinessLicense(request)  
if err != nil {  
errChan <- err  
} else {  
responseChan <- response  
}  
})  
if err != nil {  
errChan <- err  
close(responseChan)  
close(errChan)  
}  
return responseChan, errChan
}

// RecognizeBusinessLicenseWithCallback invokes the ocr.RecognizeBusinessLicense API asynchronously  
func (client *Client) RecognizeBusinessLicenseWithCallback(request *RecognizeBusinessLicenseRequest, callback func(response *RecognizeBusinessLicenseResponse, err error)) <-chan int {  
result := make(chan int, 1)  
err := client.AddAsyncTask(func() {  
var response *RecognizeBusinessLicenseResponse

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// limitations under the License.

// Code generated by Alibaba Cloud SDK Code Generator.  
// Changes may cause incorrect behavior and will be lost if the code is regenerated.


var err error
defer close(result)
response, err = client.RecognizeBusinessLicense(request)
callback(response, err)
result <- 1
}
if err != nil {
defer close(result)
callback(nil, err)
result <- 0
}
return result

// RecognizeBusinessLicenseRequest is the request struct for api RecognizeBusinessLicense
type RecognizeBusinessLicenseRequest struct {
  *requests.RpcRequest
  ImageType requests.Integer `position:"Body" name:"ImageType"
  ImageURL  string `position:"Body" name:"ImageURL"
}

// RecognizeBusinessLicenseResponse is the response struct for api RecognizeBusinessLicense
type RecognizeBusinessLicenseResponse struct {
  *responses.BaseResponse
  RequestId string `json:"RequestId" xml:"RequestId"
  Data      Data `json:"Data" xml:"Data"
}

// CreateRecognizeBusinessLicenseRequest creates a request to invoke RecognizeBusinessLicense API
func CreateRecognizeBusinessLicenseRequest() (request *RecognizeBusinessLicenseRequest) {
  request = &RecognizeBusinessLicenseRequest{
    RpcRequest: &requests.RpcRequest{},
  }
  request.InitWithApiInfo("ocr", "2019-12-30", "RecognizeBusinessLicense", "ocr", "openAPI")
  request.Method = requests.POST
  return
}

// CreateRecognizeBusinessLicenseResponse creates a response to parse from RecognizeBusinessLicense response
func CreateRecognizeBusinessLicenseResponse() (response *RecognizeBusinessLicenseResponse) {
  response = &RecognizeBusinessLicenseResponse{
    BaseResponse: &responses.BaseResponse{},
  }
  return
}

package linkface

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//
// Code generated by Alibaba Cloud SDK Code Generator.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

import (   
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// QueryLicenses invokes the linkface.QueryLicenses API synchronously  
func (client *Client) QueryLicenses(request *QueryLicensesRequest) (response *QueryLicensesResponse, err error)  
{  
    response = CreateQueryLicensesResponse()  
    err = client.DoAction(request, response)  
    return  
}

// QueryLicensesWithChan invokes the linkface.QueryLicenses API asynchronously  
func (client *Client) QueryLicensesWithChan(request *QueryLicensesRequest) (<-chan *QueryLicensesResponse, <-chan error) {  
    responseChan := make(chan *QueryLicensesResponse, 1)  
    errChan := make(chan error, 1)  
    err := client.AddAsyncTask(func() {  
        defer close(responseChan)  
        defer close(errChan)  
        response, err := client.QueryLicenses(request)  
        if err != nil {  
            errChan <- err  
        } else {  
            responseChan <- response  
        }  
    })  
    if err != nil {  
        errChan <- err  
    }  
    close(responseChan)  
    return  
}
close(errChan)
}
return responseChan, errChan

// QueryLicensesWithCallback invokes the linkface.QueryLicenses API asynchronously
func (client *Client) QueryLicensesWithCallback(request *QueryLicensesRequest, callback func(response *QueryLicensesResponse, err error)) <-chan int {
result := make(chan int, 1)
err := client.AddAsyncTask(func() {
var response *QueryLicensesResponse
var err error
deffer close(result)
response, err = client.QueryLicenses(request)
callback(response, err)
result <- 1
})
if err != nil {
defer close(result)
callback(nil, err)
result <- 0
}
return result

// QueryLicensesRequest is the request struct for api QueryLicenses
type QueryLicensesRequest struct {
*requests.RpcRequest
LicenseType requests.Integer `{position:"Body" name:"LicenseType"}`
PageSize requests.Integer `{position:"Body" name:"PageSize"}`
CurrentPage requests.Integer `{position:"Body" name:"CurrentPage"}`
}

// QueryLicensesResponse is the response struct for api QueryLicenses
type QueryLicensesResponse struct {
*responses.BaseResponse
RequestId string `json:"RequestId" xml:"RequestId"`
Code int `json:"Code" xml:"Code"`
Message string `json:"Message" xml:"Message"`
PageCount int `json:"PageCount" xml:"PageCount"`
PageSize int `json:"PageSize" xml:"PageSize"`
Page int `json:"Page" xml:"Page"`
Total int `json:"Total" xml:"Total"`
Success bool `json:"Success" xml:"Success"`
Data []DataItem `json:"Data" xml:"Data"`
}
// CreateQueryLicensesRequest creates a request to invoke QueryLicenses API
func CreateQueryLicensesRequest() (request *QueryLicensesRequest) {
    request = &QueryLicensesRequest{
        RpcRequest: &requests.RpcRequest{
            InitWithApiInfo("LinkFace", "2018-07-20", "QueryLicenses", ",", "")
        }
    }
    return
}

// CreateQueryLicensesResponse creates a response to parse from QueryLicenses response
func CreateQueryLicensesResponse() (response *QueryLicensesResponse) {
    response = &QueryLicensesResponse{
        BaseResponse: &responses.BaseResponse{
            InitWithApiInfo("LinkFace", "2018-07-20", "QueryLicenses", ",", "")
        }
    }
    return
}

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import (  
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"  
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// GetDRMLicense invokes the imm.GetDRMLicense API synchronously
func (client *Client) GetDRMLicense(request *GetDRMLicenseRequest) (response *GetDRMLicenseResponse, err error) {
    response = CreateGetDRMLicenseResponse()  
    err = client.DoAction(request, response)  
    return
}

// GetDRMLicenseWithChan invokes the imm.GetDRMLicense API asynchronously
func (client *Client) GetDRMLicenseWithChan(request *GetDRMLicenseRequest) (<-chan
*GetDRMLicenseResponse, <-chan error) {
responseChan := make(chan *GetDRMLicenseResponse, 1)
errChan := make(chan error, 1)
err := client.AddAsyncTask(func() {
defer close(responseChan)
defer close(errChan)
response, err := client.GetDRMLicense(request)
if err != nil {
errChan <- err
} else {
responseChan <- response
}
})
if err != nil {
errChan <- err
close(responseChan)
close(errChan)
}
return responseChan, errChan
}
// GetDRMLicenseWithCallback invokes the imm.GetDRMLicense API asynchronously
func (client *Client) GetDRMLicenseWithCallback(request *GetDRMLicenseRequest, callback func(response
*GetDRMLicenseResponse, err error)) <-chan int {
result := make(chan int, 1)
err := client.AddAsyncTask(func() {
var response *GetDRMLicenseResponse
var err error
defer close(result)
response, err = client.GetDRMLicense(request)
callback(response, err)
result <- 1
})
if err != nil {
defer close(result)
callback(nil, err)
result <- 0
}
return result
}
// GetDRMLicenseRequest is the request struct for api GetDRMLicense
type GetDRMLicenseRequest struct {
*requests.RpcRequest
Project string `position:"Query" name:"Project"`
DRMType string `position:"Query" name:"DRMType"`
DRMLicense string `position:"Query" name:"DRMLicense"`

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// GetDRMLicenseResponse is the response struct for api GetDRMLicense

type GetDRMLicenseResponse struct {
    *responses.BaseResponse
    RequestId  string `json:"RequestId" xml:"RequestId"`
    DeviceInfo string `json:"DeviceInfo" xml:"DeviceInfo"`
    DRMData    string `json:"DRMData" xml:"DRMData"`
}

// CreateGetDRMLicenseRequest creates a request to invoke GetDRMLicense API
func CreateGetDRMLicenseRequest() (request *GetDRMLicenseRequest) {
    request = &GetDRMLicenseRequest{
        RpcRequest: &requests.RpcRequest{
    }
    request.InitWithApiInfo("imm", "2017-09-06", "GetDRMLicense", "imm", "openAPI")
    request.Method = requests.POST
    return
}

// CreateGetDRMLicenseResponse creates a response to parse from GetDRMLicense response
func CreateGetDRMLicenseResponse() (response *GetDRMLicenseResponse) {
    response = &GetDRMLicenseResponse{
        BaseResponse: &responses.BaseResponse{
    }
    return
}

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type License struct {
    LicenseStatus string `json:"LicenseStatus" xml:"LicenseStatus"`
    LicenseCode   string `json:"LicenseCode" xml:"LicenseCode"`
    InstanceId    string `json:"InstanceId" xml:"InstanceId"`
    CreateTime    string `json:"CreateTime" xml:"CreateTime"`
    ExpiredTime   string `json:"ExpiredTime" xml:"ExpiredTime"`
    ActivateTime  string `json:"ActivateTime" xml:"ActivateTime"`
    ProductSkuid  string `json:"ProductSkuid" xml:"ProductSkuid"`
    ProductCode   string `json:"ProductCode" xml:"ProductCode"`
    ProductName   string `json:"ProductName" xml:"ProductName"`
    SupplierName  string `json:"SupplierName" xml:"SupplierName"`
    ExtendInfo    ExtendInfo `json:"ExtendInfo" xml:"ExtendInfo"`
    ExtendArray   ExtendArray `json:"ExtendArray" xml:"ExtendArray"`
}

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import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// DescribeLicense invokes the market.DescribeLicense API synchronously
func (client *Client) DescribeLicense(request *DescribeLicenseRequest) (response *DescribeLicenseResponse, err error) {
    response = CreateDescribeLicenseResponse()
    err = client.DoAction(request, response)
}
func (client *Client) DescribeLicenseWithChan(request *DescribeLicenseRequest) (<-chan *DescribeLicenseResponse, <-chan error) {
    responseChan := make(chan *DescribeLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.DescribeLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        defer close(responseChan)
        defer close(errChan)
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

func (client *Client) DescribeLicenseWithCallback(request *DescribeLicenseRequest, callback func(response *DescribeLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *DescribeLicenseResponse
        var err error
        defer close(result)
        response, err = client.DescribeLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// DescribeLicenseWithChan invokes the market.DescribeLicense API asynchronously
// DescribeLicenseWithCallback invokes the market.DescribeLicense API asynchronously
// DescribeLicenseRequest is the request struct for api DescribeLicense
type DescribeLicenseRequest struct {
    *requests.RpcRequest
    LicenseCode string `position:"Query" name:"LicenseCode"`
}

// DescribeLicenseResponse is the response struct for api DescribeLicense
type DescribeLicenseResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId"`
    License License `json:"License" xml:"License"`
}

// CreateDescribeLicenseRequest creates a request to invoke DescribeLicense API
func CreateDescribeLicenseRequest() (request *DescribeLicenseRequest) {
    request = &DescribeLicenseRequest{
        RpcRequest: &requests.RpcRequest{},
    }
    request.InitWithApiInfo("Market", "2015-11-01", "DescribeLicense", "yunmarket", "openAPI")
    return
}

// CreateDescribeLicenseResponse creates a response to parse from DescribeLicense response
func CreateDescribeLicenseResponse() (response *DescribeLicenseResponse) {
    response = &DescribeLicenseResponse{
        BaseResponse: &responses.BaseResponse{},
    }
    return
}

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LicenseAttribute is a nested struct in market response
type LicenseAttribute struct {
  Code  string `json:"Code" xml:"Code"
  Value string `json:"Value" xml:"Value"
}

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"github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// GetUserLicense invokes the linkwan.GetUserLicense API synchronously
func (client *Client) GetUserLicense(request *GetUserLicenseRequest) (response *GetUserLicenseResponse, err error) {
    response = CreateGetUserLicenseResponse()
    err = client.DoAction(request, response)
    return
}
// GetUserLicenseWithChan invokes the linkwan.GetUserLicense API asynchronously
func (client *Client) GetUserLicenseWithChan(request *GetUserLicenseRequest) (<-chan *GetUserLicenseResponse, <-chan error) {
    responseChan := make(chan *GetUserLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.GetUserLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

// GetUserLicenseWithCallback invokes the linkwan.GetUserLicense API asynchronously
func (client *Client) GetUserLicenseWithCallback(request *GetUserLicenseRequest, callback func(response *GetUserLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *GetUserLicenseResponse
        var err error
        defer close(result)
        response, err = client.GetUserLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// GetUserLicenseRequest is the request struct for api GetUserLicense
type GetUserLicenseRequest struct {
    *requests.RpcRequest
    ApiProduct string `position:"Body" name:"ApiProduct"`
ApiRevision string `position:"Body" name:"ApiRevision"`
}

// GetUserLicenseResponse is the response struct for api GetUserLicense
type GetUserLicenseResponse struct {
  *responses.BaseResponse
  Success bool `json:"Success" xml:"Success"
  RequestId string `json:"RequestId" xml:"RequestId"
  Data Data `json:"Data" xml:"Data"
}

// CreateGetUserLicenseRequest creates a request to invoke GetUserLicense API
func CreateGetUserLicenseRequest() (request *GetUserLicenseRequest) {
  request = &GetUserLicenseRequest{
    RpcRequest: &requests.RpcRequest{
    }
  }
  request.InitWithApiInfo("LinkWAN", "2019-03-01", "GetUserLicense", "linkwan", "openAPI")
  request.Method = requests.POST
  return
}

// CreateGetUserLicenseResponse creates a response to parse from GetUserLicense response
func CreateGetUserLicenseResponse() (response *GetUserLicenseResponse) {
  response = &GetUserLicenseResponse{
    BaseResponse: &responses.BaseResponse{
    }
  }
  return
}

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import (
  "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
  "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)
// DescribeTraceLicenseKey invokes the arms.DescribeTraceLicenseKey API synchronously
func (client *Client) DescribeTraceLicenseKey(request *DescribeTraceLicenseKeyRequest) (response
*DescribeTraceLicenseKeyResponse, err error) {
    response = CreateDescribeTraceLicenseKeyResponse()
    err = client.DoAction(request, response)
    return
}

// DescribeTraceLicenseKeyWithChan invokes the arms.DescribeTraceLicenseKey API asynchronously
func (client *Client) DescribeTraceLicenseKeyWithChan(request *DescribeTraceLicenseKeyRequest) (<-chan
*DescribeTraceLicenseKeyResponse, <-chan error) {
    responseChan := make(chan *DescribeTraceLicenseKeyResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.DescribeTraceLicenseKey(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
    }
    close(responseChan)
    close(errChan)
    return responseChan, errChan
}

// DescribeTraceLicenseKeyWithCallback invokes the arms.DescribeTraceLicenseKey API asynchronously
func (client *Client) DescribeTraceLicenseKeyWithCallback(request *DescribeTraceLicenseKeyRequest, callback
func(response *DescribeTraceLicenseKeyResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *DescribeTraceLicenseKeyResponse
        var err error
        defer close(result)
        response, err = client.DescribeTraceLicenseKey(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
    }
    return result
}
result <- 0
}
return result
}

// DescribeTraceLicenseKeyRequest is the request struct for api DescribeTraceLicenseKey
type DescribeTraceLicenseKeyRequest struct {
    *requests.RpcRequest
}

// DescribeTraceLicenseKeyResponse is the response struct for api DescribeTraceLicenseKey
type DescribeTraceLicenseKeyResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId"
    LicenseKey string `json:"LicenseKey" xml:"LicenseKey"
}

// CreateDescribeTraceLicenseKeyRequest creates a request to invoke DescribeTraceLicenseKey API
func CreateDescribeTraceLicenseKeyRequest() (request *DescribeTraceLicenseKeyRequest) {
    request = &DescribeTraceLicenseKeyRequest{
        RpcRequest: &requests.RpcRequest{
        
    }
    request.InitWithApiInfo("ARMS", "2019-08-08", "DescribeTraceLicenseKey", "arms", "openAPI")
    request.Method = requests.POST
    return
}

// CreateDescribeTraceLicenseKeyResponse creates a response to parse from DescribeTraceLicenseKey response
func CreateDescribeTraceLicenseKeyResponse() (response *DescribeTraceLicenseKeyResponse) {
    response = &DescribeTraceLicenseKeyResponse{
        BaseResponse: &responses.BaseResponse{
        
    }
    return
}

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import (
   "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
   "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
) 

// RecognizeDrivingLicense invokes the ocr.RecognizeDrivingLicense API synchronously
func (client *Client) RecognizeDrivingLicense(request *RecognizeDrivingLicenseRequest) (response *RecognizeDrivingLicenseResponse, err error) {
    response = CreateRecognizeDrivingLicenseResponse()
    err = client.DoAction(request, response)
    return
}

// RecognizeDrivingLicenseWithChan invokes the ocr.RecognizeDrivingLicense API asynchronously
func (client *Client) RecognizeDrivingLicenseWithChan(request *RecognizeDrivingLicenseRequest) (<-chan
*RecognizeDrivingLicenseResponse, <-chan error) {
  responseChan := make(chan *RecognizeDrivingLicenseResponse, 1)
  errChan := make(chan error, 1)
  err := client.AddAsyncTask(func() {
    defer close(responseChan)
    defer close(errChan)
    response, err := client.RecognizeDrivingLicense(request)
    if err != nil {
      errChan <- err
    } else {
      responseChan <- response
    }
  })
  if err != nil {
    errChan <- err
    close(responseChan)
    close(errChan)
  }
  return responseChan, errChan
}

// RecognizeDrivingLicenseWithCallback invokes the ocr.RecognizeDrivingLicense API asynchronously
func (client *Client) RecognizeDrivingLicenseWithCallback(request *RecognizeDrivingLicenseRequest, callback func(response *RecognizeDrivingLicenseResponse, err error)) <-chan int {
  result := make(chan int, 1)
  err := client.AddAsyncTask(func() {
    var response *RecognizeDrivingLicenseResponse
    var err error
    defer close(result)
    response, err = client.RecognizeDrivingLicense(request)
    callback(response, err)
    result <- 1
  })
  if err != nil {
    defer close(result)
    callback(nil, err)
    result <- 0
  }
  return result
}

// RecognizeDrivingLicenseRequest is the request struct for api RecognizeDrivingLicense
type RecognizeDrivingLicenseRequest struct {
  *requests.RpcRequest
  ImageType requests.Integer `position:"Body" name:"ImageType"
  Side string `position:"Body" name:"Side"
  ImageURL string `position:"Body" name:"ImageURL"
}
// RecognizeDrivingLicenseResponse is the response struct for api RecognizeDrivingLicense
type RecognizeDrivingLicenseResponse struct {
  *responses.BaseResponse
  RequestId string `json:"RequestId" xml:"RequestId"
  Data      Data   `json:"Data" xml:"Data"
}

// CreateRecognizeDrivingLicenseRequest creates a request to invoke RecognizeDrivingLicense API
func CreateRecognizeDrivingLicenseRequest() (request *RecognizeDrivingLicenseRequest) {
  request = &RecognizeDrivingLicenseRequest{
    RpcRequest: &requests.RpcRequest{},
  }
  request.InitWithApiInfo("ocr", "2019-12-30", "RecognizeDrivingLicense", "ocr", "openAPI")
  request.Method = requests.POST
  return
}

// CreateRecognizeDrivingLicenseResponse creates a response to parse from RecognizeDrivingLicense response
func CreateRecognizeDrivingLicenseResponse() (response *RecognizeDrivingLicenseResponse) {
  response = &RecognizeDrivingLicenseResponse{
    BaseResponse: &responses.BaseResponse{},
  }
  return
}

1.2053 kerberos 1.15-1+deb9u3
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cmd/krb5/slave/propd_rpc.c
lib/gss_mechs/mech_krb5/et/db5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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lib/libgss/g_dup_name.c
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lib/libgss/g_initial.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
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lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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1.2056 github.com/go-kit/log v0.1.0

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1.2062 txw2 2.3.0

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1.2066 consul 1.9.1

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

# Consul-Terraform-Sync Enterprise License

<EnterpriseAlert>
    Licenses are only required for Consul-Terraform-Sync Enterprise
</EnterpriseAlert>

Consul-Terraform-Sync Enterprise binaries require a [Consul Enterprise license](/docs/enterprise/license/overview) to run. There is no Consul-Terraform-Sync Enterprise specific license. As a result, Consul-Terraform-Sync Enterprise's licensing is very similar to Consul Enterprise.

All Consul-Terraform-Sync Enterprise features are available with a valid Consul Enterprise license, regardless of your Consul Enterprise packaging or pricing model.

To get a trial license for Consul-Terraform-Sync Enterprise, you can sign-up for the [trial license for Consul Enterprise](/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).
## Setting the License

Choose one of the following methods (in order of precedence) to set the license:

1. Set the `CONSUL_LICENSE` environment variable to the license string.

```shell-session
export CONSUL_LICENSE=<LICENSE_VALUE>
```

1. Set the `CONSUL_LICENSE_PATH` environment variable to the path of the file containing the license.

```shell-session
export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
```

1. Configure the `license_path` option in the configuration file to point to the file containing the license.

```hcl
license_path = "<PATH>/<TO>/<FILE>"
```

-> **Note**: the [options to set the license and the order of precedence](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) are the same as Consul Enterprise server agents. Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

### Updating the License

The previous section describes options for [setting the license](#setting-the-license) needed to start running Consul-Terraform-Sync Enterprise. Use the following procedure to update the license when it expires or is near the expiration date:

1. Update the license environment variable or configuration with the new license value or path to the new license file
1. Stop and restart Consul-Terraform-Sync Enterprise

Once Consul-Terraform-Sync Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

## Notification and Termination Behavior

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. Consul-Terraform-Sync Enterprise will cease to function once the termination date has passed.
The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement for complete terms of your grace period.

When approaching expiration and termination, Consul-Terraform-Sync Enterprise will provide notifications in the system logs:

<table>
<thead>
<tr>
<th>Time period</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 days before expiration</td>
<td>Warning-level log every 24-hours</td>
</tr>
<tr>
<td>7 days before expiration</td>
<td>Warning-level log every 1 hour</td>
</tr>
<tr>
<td>1 hour before expiration</td>
<td>Warning-level log every 1 minute</td>
</tr>
<tr>
<td>1 day before expiration</td>
<td>Warning-level log every 5 minutes</td>
</tr>
<tr>
<td>At or after expiration (before termination)</td>
<td>Error-level log every 1 minute</td>
</tr>
<tr>
<td>At or after termination</td>
<td>Error-level log and exit</td>
</tr>
</tbody>
</table>

--> **Note**: Notification frequency and [grace period](/docs/enterprise/license/faq#q-is-there-a-grace-period-when-licenses-expire) behavior is the same as Consul Enterprise.
{{#if shouldShowValueField}}
<group.Element
  @name="Value"
  @error={{changeset-get changeset 'error.Value'}}
  as |el|>
  <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
  <el.Text
    @value={{changeset-get changeset 'Value'}}
    oninput={{action 'change' 'Value' changeset}}
  />
  <State @state={{el.state}} @matches="error">
    <el.Error>
      {{changeset-get changeset 'error.Value.validation'}}
    </el.Error>
  </State>
</group.Element>
{{/if}}

</div>
</fieldset>
</FormGroup>
</div>

---

# License - Operator HTTP API

The `/operator/license` endpoint allows for retrieving the Consul Enterprise License.

---

# License - Operator HTTP API
The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/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/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```shell-session
$ curl \
http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
    "Valid": true,
    "License": {
        "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
        "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
        "installation_id": "*",
        "issue_time": "2018-05-21T20:03:35.911567355Z",
        "start_time": "2018-05-21T04:00:00Z"
    }
}
```
"expiration_time": "2019-05-22T03:59:59.999Z",
"product": "consul",
"flags": {
  "package": "premium"
},
"features": [
  "Automated Backups",
  "Automated Upgrades",
  "Enhanced Read Scalability",
  "Network Segments",
  "Redundancy Zone",
  "Advanced Network Federation"
],
"temporary": false
},
"Warnings": []
}...

## Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/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/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` (string: ") - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Payload
The payload is the raw license blob.

### Sample Request

```shell-session
$ curl \
   --request PUT \
   --data @consul.license \
   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": ["Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
```

## Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not
valid, the replace will fail.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>DELETE</code></td>
<td><code>/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/features/blocking),
[consistency modes](/api/features/consistency),
[agent caching](/api/features/caching), and
[required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
  This will default to the datacenter of the agent serving the HTTP request.
  This is specified as a URL query parameter.

### Sample Request

```shell-session
$ curl
   --request DELETE
   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
```
## Licensing

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend on which binary is in use, whether the agent is a server, client or snapshot agent and whether ACLs have been enabled for the cluster.

**Consul Enterprise 1.10.0 removed temporary licensing.** In previous versions Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also prior to 1.10.0 server agents would automatically propagate the license between themselves. This no longer occurs and the license must be present on each server when they are started.

Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

### Binaries with Built In Licenses

If you are downloading Consul from Amazon S3, then the license is included in the binary and you do not need to take further action. This is the most common use case.
In the S3 bucket you will find three Enterprise zip packages. The packages with `+pro` and `+prem` in the name, are the binaries that include the license. The package with `+ent` in the name does not include the license.

When using these binaries no further action is necessary to configure the license.

### Binaries Without Built In Licenses

For Consul Enterprise 1.10.0 or greater, binaries that do not include built in licenses a license must be available at the time the agent starts.

For server agents this means that they must either have the `license_path` configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or `CONSUL_LICENSE_PATH` environment variables. Both the configuration item and the `CONSUL_LICENSE_PATH` environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple of these are set the order of precedence is:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Both client agents and the snapshot agent may also be licensed in the very same manner. However to prevent the need to configure the license on many client agents and snapshot agents those agents have the capability to retrieve the license automatically under specific circumstances.

#### Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn't need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the `start_join` or `retry_join` configurations. If those are both unset or no `acls agent token` is set then the client agent will immediately shut itself down.

If all preliminary checks pass the client agent will attempt to reach out to any server on its RPC port to request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below. Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

#### Snapshot Agent License Retrieval
The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents, the snapshot agent will shut itself down after being unable to retrieve the license for 5 minutes.

```html
<div>
  ...attributes
  class="consul-intention-permission-form"
>
<FormGroup
  @name={[name]}
as [group]>

  {{yield (hash
    submit=(action 'submit' changeset)
    reset=(action 'reset' changeset)

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

</fieldset>

<fieldset>
  <div data-property="action">
    <span class="label">
      Should this permission allow the source connect to the destination?
    </span>
  </div>

  <div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
    {{#each intents as [intent]}}
     <label>
       <span>{{capitalize intent}}</span>
       <input
         type="radio"
         name="Action"
         value={{intent}}
         checked={{if (eq changeset.Action intent) 'checked'}}
       on-change={{action (changeset-set changeset 'Action') value="target.value"}} />
     </label>
    {{/each}}
  </div>
</fieldset>

</div>
```

<h2>Path</h2>
<div>
  <group.Element
    @name="PathType"
    @type="select"
    as |el|>
    <el.Label>
      Path type
    </el.Label>
    <PowerSelect
      @options={{pathTypes}}
      @selected={{pathType}}
      @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
      {{get pathLabels Type}}
    </PowerSelect>
  </group.Element>

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

<fieldset>
<h2>Methods</h2>
<div class="type-toggle">
  <span>All methods are applied by default unless specified</span>
</div>
</fieldset>
@name="allMethods"
as |el|>
  <el.Checkbox
       checked={{if allMethods 'checked'}}
onchange={{action 'change' 'allMethods' changeset}}
/>  
  <el.Label>
    All Methods
  </el.Label>
</group.Element>
</div>

{{#if shouldShowMethods}}
  <div class="checkbox-group" role="group">
    {{#each methods as |method|}}
      <label class="type-checkbox">
        <input
            type="checkbox"
            name="method"
            value={{method}}
            checked={{if (contains method changeset.HTTP.Methods) 'checked'}}
onchange={{action 'change' 'method' changeset}}
/>  
        <span>{{method}}</span>
      </label>
    {{/each}}
  </div>
{{/if}}
</fieldset>

<fieldset>
  <h2>Headers</h2>

  <Consul::Intention::Permission::Header::List
        @items={{changeset-get changeset 'HTTP.Header'}}
        @ondelete={{action 'delete' 'HTTP.Header' changeset}}
as [headerList]>
  </Consul::Intention::Permission::Header::List>

  <Consul::Intention::Permission::Header::Form
        @onsubmit={{action 'add' 'HTTP.Header' changeset}}
as [headerForm]>
    <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
  </Consul::Intention::Permission::Header::Form>

  <button
        data-test-add-header
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<Notice
  @type="info"
  as [notice]>
  <notice.Body>
    <p>
      {{t "components.consul.intention.notice.permissions.body"}}
    </p>
  </notice.Body>
  <notice.Footer>
    <p>
      <a href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions" target="_blank" rel="noopener noreferrer">
        {{t "components.consul.intention.notice.permissions.footer"}}
      </a>
    </p>
  </notice.Footer>
</Notice>

.conserv-intention-permission-form {
  h2 {
    border-top: 1px solid rgb(var(--tone-blue-500));
    @extend %h200;
  }
  button.type-submit {
    @extend %frame-blue-300;
  }
  button.type-submit:hover:not(:disabled),
  button.type-submit:focus:not(:disabled) {
    @extend %frame-blue-500;
  }
  button.type-submit:disabled {
    @extend %frame-blue-200;
  }
}
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```css
.consul-intention-permission-header-list {
  max-height: 200px;
  overflow: auto;
}

@import './skin';
@import './layout';
---
layout: commands
page_title: 'Commands: License'
description: >
The license command provides a datacenter-level view of the Consul Enterprise license.
---

# Consul License

Command: `consul license`

<EnterpriseAlert />

The `license` command provides a datacenter-level view of the Consul Enterprise license. This was added in Consul 1.1.0 but Consul 1.10.0 removed the ability to set and reset the license using the CLI. See the [licensing documentation](/docs/enterprise/license/overview) for more information about Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in order to use this command. Requests are forwarded internally to the leader
if required, so this can be run from any Consul node in a cluster. See the
[ACL Guide](https://learn.hashicorp.com/consul/security-networking/production-acls) for more information.

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

This command has subcommands for managing the Consul Enterprise license
Here are some simple examples, and more detailed examples are
available in the subcommands or the documentation.

Install a new license from a file:

    $ consul license put @consul.license

Install a new license from stdin:

    $ consul license put -

Install a new license from a string:

    $ consul license put "<license blob>"

Retrieve the current license:

    $ consul license get

Inspect a license:

    $ consul license inspect "<path to license file>"

Reset the current license:

    $ consul license reset

For more examples, ask for subcommand help or view the documentation.

Subcommands:
    get  Get the active license
    inspect  Inspect a signed license
    put  Puts a new license in the datacenter
    reset  Resets the license in the datacenter

## inspect

This command inspects and validates a license. Just like a Consul agent it
can load the license from a file on disk or from the `CONSUL_LICENSE` and
`CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [options] [license file]`

Inspect a license contained in a file:

```bash
$ consul license inspect consul.hclic
```

Inspect a license loaded from the environment:

```bash
$ consul license inspect
```

This will look at the CONSUL_LICENSE environment variable first and if not present then we will look for the file specified by the CONSUL_LICENSE_PATH environment variable.

The output looks like this:

```bash
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)  
Product: consul  
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50  
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4  
Installation ID: *  
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC  
Start Time: 2020-09-14 00:00:00 +0000 UTC  
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC  
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC  
Modules:  
  Global Visibility, Routing and Scale  
  Governance and Policy  
Features:  
  Automated Backups  
  Automated Upgrades  
  Enhanced Read Scalability  
  Network Segments  
  Redundancy Zone  
  Advanced Network Federation  
  Namespaces  
  SSO  
  Audit Logging  
  Admin Partitions

License is valid
## put

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

This command sets the Consul Enterprise license.

Usage: `consul license put [options] LICENSE`

##### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```

## get

This command gets the Consul Enterprise license.

Usage: `consul license get [options]`

##### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffe-e85c-0850-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
...

## reset
-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid. If the builtin license is invalid, the current one stays active.

Usage: `consul license reset [options]`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffe-e85c-0850-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
```
Network Segments
Redundancy Zone
Advanced Network Federation

@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {
    @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
    @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
    @extend %pill-500;
}
.consul-intention-permission-list .intent-allow {
    @extend %pill-allow;
}
.consul-intention-permission-list .intent-deny {
    @extend %pill-deny;
}
<Notice
class="topology-metrics-notice"
...attributes
@type={{@type}}
as |notice|>
    <notice.Header>
        <h3>
            {{t (concat "components.consul.topology-metrics.notice." @for ".header")}}
        </h3>
    </notice.Header>
    <notice.Body>
        <p>
            {{t (concat "components.consul.topology-metrics.notice." @for ".body")}}
        </p>
    </notice.Body>
    {{#if @action}}
        <notice.Footer>
            <p>
                {{#if @internal}}
                    <Action @href={{href-to (t (concat "components.consul.topology-metrics.notice." @for ".footer.URL"))}}>
                        {{t (concat "components.consul.topology-metrics.notice." @for ".footer.name")}}
                    </Action>
                {{/if}}
                <Action @href={{@link}} @external={{true}}>
                    {{t (concat "components.consul.topology-metrics.notice." @for ".footer")}}
                </Action>
            </p>
        </notice.Footer>
    {{/if}}
</Notice>
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{{#if (gt items.length 0)}}
<ListCollection class="consul-intention-permission-header-list"
  @items={{items}}
  @scroll="native"
  @cellHeight={{42}}
  as |item|>
  <BlockSlot @name="details">
    <dl>
      <dt>
        <Tooltip>
          Header
        </Tooltip>
      </dt>
      <dd>
        {{item.Name}} {{route-match item}}
      </dd>
    </dl>
  </BlockSlot>
  <BlockSlot @name="actions" as |Actions|>
    <Actions as |Action|>
      <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
        <BlockSlot @name="label">
          Delete
        </BlockSlot>
        <BlockSlot @name="confirmation" as |Confirmation|>
          <Confirmation class="warning">
            <BlockSlot @name="header">
              Confirm delete
            </BlockSlot>
            <BlockSlot @name="body">
              <p>
                Are you sure you want to delete this header?
              </p>
            </BlockSlot>
            <Confirm>Delete</Confirm>
          </Confirmation>
        </BlockSlot>
      </Action>
    </Actions>
  </BlockSlot>
</ListCollection>
import (
    "io/ioutil"
    "strings"
    "time"
)

type License struct {
    LicenseID string `json:"license_id"` // The unique identifier of the license
    CustomerID string `json:"customer_id"` // The customer ID associated with the license
    InstallationID string `json:"installation_id"` // If set, an identifier that should be used to lock the license to a particular site, cluster, etc.
    IssueTime time.Time `json:"issue_time"` // The time at which the license was issued
    StartTime time.Time `json:"start_time"` // The time at which the license starts being valid
    ExpirationTime time.Time `json:"expiration_time"` // The time after which the license expires
    // The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"

// The product the license is valid for
Product string `json:"product"

// License Specific Flags
Flags map[string]interface {} `json:"flags"

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"

// List of features enabled by the license
Features []string `json:"features"

}

type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := op.c.doRequest(r)
    if err != nil {
        return "", err
    }
    defer closeResponseBody(resp)
    if err := requireOK(resp); err != nil {
        return "", err
    }
    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }

func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := op.c.doRequest(r)
    if err != nil {
        return nil, err
    }
    defer closeResponseBody(resp)
    if err := requireOK(resp); err != nil {
        return nil, err
    }
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := op.c.doRequest(r)
    if err != nil {
        return nil, err
    }
    defer closeResponseBody(resp)
    if err := requireOK(resp); err != nil {
        return nil, err
    }
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}
return &reply, nil
}
  {{#if (gt items.length 0)}}
  <ListCollection
    class="consul-intention-permission-list{{if (not onclick) ' readonly'}}"
    @scroll="native"
    @items={{items}}
    @partial={{5}}
    as [item]>
    <BlockSlot @name="details">
      <div onclick={{action (optional onclick) item}}>
        <strong class="intent-{{capitalize item.Action}}">{{capitalize item.Action}}</strong>
        {{#if (gt item.HTTP.Methods.length 0)}}
        <dl class="permission-methods">
          <dt>
            <Tooltip>Methods</Tooltip>
          </dt>
          <dd>
            {{#each item.HTTP.Methods as |item|}}
            {{item}}
            {{/each}}
          </dd>
        </dl>
        {{/if}}
        {{#if item.HTTP.Path}}
        <dl class="permission-path">
          <dt>
            <Tooltip>{{item.HTTP.PathType}}</Tooltip>
          </dt>
          <dd>
            {{item.HTTP.Path}}
          </dd>
        </dl>
        {{/if}}
        {{#each item.HTTP.Header as |item|}}
        <dl class="permission-header">
          <dt>
            <Tooltip>Header</Tooltip>
          </dt>
          <dd>
            {{item.Name}} {{route-match item}}
          </dd>
        </dl>
        {{/each}}
      </div>
    </BlockSlot>
  </ListCollection>
  {{/if}}
}
# Notice

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

```hbs preview-template
<Notice
  @type={{this.type}}
as |notice|>
  <notice.Header>
```

```hbs
</dd>
</dl>
{{/each}}
</div>
</BlockSlot>
{{#if onclick}}
<BlockSlot @name="actions" as |Actions|>
  <Actions as |Action|>
    <Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={{true}}>
      <BlockSlot @name="label">
        Edit
      </BlockSlot>
    </Action>
    <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
      <BlockSlot @name="label">
        Delete
      </BlockSlot>
      <BlockSlot @name="confirmation" as |Confirmation|>
        <Confirmation class="warning">
          <BlockSlot @name="header">
            Confirm delete
          </BlockSlot>
          <BlockSlot @name="body">
            <p>
              Are you sure you want to delete this permission?
            </p>
          </BlockSlot>
          <BlockSlot @name="confirm" as |Confirm|>
            <Confirm>Delete</Confirm>
          </BlockSlot>
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
</BlockSlot>
{{/if}}
</ListCollection>
```

```
```
## Arguments

<table>
<thead>
<tr>
<th>Argument/Attribute</th>
<th>Type</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>type</code></td>
<td><code>String</code></td>
<td><code>info</code></td>
<td>Type of notice [info</td>
</tr>
</tbody>
</table>

## See

- [Template Source Code](./index.hbs)

---

```graphql
%notice {
  position: relative;
  padding: 0.8rem;
}
%notice header {
  margin-bottom: 0.1rem;
}
%notice header > * {
```
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Some of your intentions are being managed through an Intention Custom Resource in your Kubernetes cluster. Those managed intentions will be view only in the UI. Any intentions created in the UI will work but will not be synced to the Custom Resource Definition (CRD) datastore.

Learn more about CRDs

Open Source Used In kASA v1.5 17268
%notice::before {
  @extend %as-pseudo;
}

%notice header > * {
  @extend %h300;
}

%notice footer * {
  @extend %p3;
  font-weight: var(--typo-weight-bold);
}

%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
  @extend %notice;
}

%notice-success {
  background-color: rgb(var(--tone-green-050));
  border-color: rgb(var(--tone-green-500));
}

%notice-success header * {
  color: rgb(var(--tone-green-800));
}

%notice-info {
  border-color: rgb(var(--tone-blue-100));
  background-color: rgb(var(--tone-blue-010));
}

%notice-info header * {
  color: rgb(var(--tone-blue-700));
}

%notice-highlight {
  background-color: rgb(var(--tone-gray-050));
  border-color: rgb(var(--tone-gray-300));
}

%notice-info header * {
  color: rgb(var(--tone-blue-700));
}

%notice-warning {
  border-color: rgb(var(--tone-yellow-100));
  background-color: rgb(var(--tone-yellow-050));
}

%notice-warning header * {
  color: rgb(var(--tone-yellow-800));
}

%notice-error {
  background-color: rgb(var(--tone-red-050));
}
border-color: rgb(var(--tone-red-500));
}
%notice-error header * {
  color: rgb(var(--tone-red-500));
}
%notice-success::before {
  @extend %with-check-circle-fill-mask;
  color: rgb(var(--tone-green-500));
}
%notice-info::before {
  @extend %with-info-circle-fill-mask;
  color: rgb(var(--tone-blue-500));
}
%notice-highlight::before {
  @extend %with-star-fill-mask;
  color: rgb(var(--tone-yellow-500));
}
%notice-warning::before {
  @extend %with-alert-triangle-mask;
  color: rgb(var(--tone-orange-500));
}
%notice-error::before {
  @extend %with-cancel-square-fill-mask;
  color: rgb(var(--tone-red-500));
}
@import './skin';
@import './layout';

%notice {
  margin: 1em 0;
}
/**
.notice.success {
  @extend %notice-success;
}
.notice.warning {
  @extend %notice-warning;
}
.notice.error {
  @extend %notice-error;
}
.notice.info {
  @extend %notice-info;
}
.notice.highlight {
  @extend %notice-highlight;
}
.notice.policy-management {
This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0.
Consul Enterprise automatically loads Consul licenses when the server agent starts.

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

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.
If the license is missing, invalid, or expired, the server will immediately exit.
This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.
This will no longer work since each server must be able to find a valid license during the startup process.

## Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.
During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.
The upgrade process varies if ACLs are enabled or disabled in the cluster.
Refer to the instructions on [upgrading to 1.10.x](/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

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

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

## Q: What resources are available?
The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](https://www.consul.io/docs/enterprise/upgrades)
- [Consul License Documentation](/docs/enterprise/license)
- [License configuration values documentation](/docs/enterprise/license/overview#binaries-without-built-in-licenses)
- [Install a HashiCorp Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise)

### Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise. This impacts customers that have an enterprise binary (evaluation or non-evaluation licenses) downloaded from https://releases.hashicorp.com. The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

### Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0, a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up. The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

### Q: What is the impact on evaluation licenses due to this change?

The 6-hour trial period for evaluation licenses will be deprecated as of Consul Enterprise 1.10.0. This means that any clusters deployed with Consul 1.10.0+ent binaries will need to have a valid license on the disk (auto-loaded) or as an environment variable. Failure to provide a valid license key will result in the Consul server agent not starting.

### Q: Is there a grace period when licenses expire?

A license includes an `expiration_date` and a `termination_date`. An enterprise binary will cease to function once the `termination_date` has passed. Licenses will now have a 24 hrs grace period. The grace period is the time between license expiry until the time it terminates. As Consul Enterprise approaches the expiration date, warnings will be issued in the system logs.

### Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients. Please review the [upgrade requirements](faq#q-what-are-the-upgrade-requirements) documentation.
## Q: Does this affect snapshot agents?

Same behavior as Consul clients. See answer for [Does this affect client agents?](faq#q-does-this-affect-client-agents)

## Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit.

Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `start_join/retry_join` addresses.
- The start/retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `start_join/retry_join` addresses, the start/retry join addresses are addresses of the Consul servers.

## Q: Where can users get a trial license for Consul Enterprise?

Visit [https://www.consul.io/trial](https://www.consul.io/trial) for a free 30-day trial license.

## Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

## Q: Will this impact HCP Consul?

This will not impact HCP Consul.

## Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for evaluation licenses (non-evaluation licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).
## Q: What are the scenarios that a customer must plan for because of these changes?

New Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy. This valid license must be on-disk (auto-loaded) or as an environment variable. Please see the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

## Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

### VM

1. Run `['consul license get -signed']` (/commands/license#get) to extract the license from their running cluster. Store the license in a secure location on disk.
2. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
3. Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
4. Follow the Consul upgrade [documentation](/docs/upgrading).

### Kubernetes

**NOTE:** If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
2. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, then 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. Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise).
3. Follow the [Kubernetes Upgrade Docs](/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

-> **WARNING:** If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise) for more details.

## Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

### VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
2. Store the license in a secure location on disk.
Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.

Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

Follow the Consul upgrade [documentation](/docs/upgrading).

### Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.

1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.

Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

1. Proceed with the `helm` [upgrade instructions](/docs/k8s/upgrade)

## Q: Will Consul downgrades/rollbacks work?

When downgrading to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

## Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

-> Verify that you meet the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

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

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

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

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

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

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

## Q: Any impacts to Consul Kubernetes?

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

You will need to add the following configuration.
server:
  enterpriseLicense:
    enableLicenseAutoload: false
```

1.2067 afero v1.2.2
1.2067.1 Available under license:

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Version 2.0, January 2004
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1.2069 riemann-riemann-go-client 0.5.0

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1.2071 sys v0.0.0-20210510120138-977fb7262007

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1.2072 mergeo 0.3.10

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

fields:
  site: string
  author: root

1.2073 mqttpaho 1.3.0
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1.2074 jackson-annotations 2.9.8

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20200526211855-cb27e3aa2013

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1.2080 coreutils 8.26-3

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Changes:
* added Debian GNU/Linux package maintenance system files
* at times, bug fixes awaiting inclusion in the upstream source

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doc/coreutils.texi (The GNU Coreutils Manual)
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  jar/io/netty/handler/codec/spdy/SpdyPingFrame.java
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  jar/io/netty/handler/codec/SpdyGoAwayFrame.java
  */opt/cola/permits/1153055891_1618392512.74/0/netty-codec-http-4-1-61-final-sources-
  jar/io/netty/handler/codec/spdy/DefaultSpdyHeaders.java
  */opt/cola/permits/1153055891_1618392512.74/0/netty-codec-http-4-1-61-final-sources-
  jar/io/netty/handler/codec/spdy/DefaultSpdyStreamFrame.java
  */opt/cola/permits/1153055891_1618392512.74/0/netty-codec-http-4-1-61-final-sources-
  jar/io/netty/handler/codec/spdy/DefaultSpdyRstStreamFrame.java
  */opt/cola/permits/1153055891_1618392512.74/0/netty-codec-http-4-1-61-final-sources-
  jar/io/netty/handler/codec/spdy/DefaultSpdyHttpResponse.java
  */opt/cola/permits/1153055891_1618392512.74/0/netty-codec-http-4-1-61-final-sources-
  jar/io/netty/handler/codec/SpdyHttpResponse.java
  */opt/cola/permits/1153055891_1618392512.74/0/netty-codec-http-4-1-61-final-sources-
  jar/io/netty/handler/SpdyHttpRequest.java
  */opt/cola/permits/1153055891_1618392512.74/0/netty-codec-http-4-1-61-final-sources-
  jar/io/netty/handler/SpdyHttpMessage.java
  */opt/cola/permits/1153055891_1618392512.74/0/netty-codec-http-4-1-61-final-sources-
  jar/io/netty/handler/SpdyRstStreamFrame.java
  */opt/cola/permits/1153055891_1618392512.74/0/netty-codec-http-4-1-61-final-sources-
  jar/io/netty/handler/SpdyStreamStatus.java
  */opt/cola/permits/1153055891_1618392512.74/0/netty-codec-http-4-1-61-final-sources-
  jar/io/netty/handler/SpdyStreamStatus.java
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  jar/io/netty/handler/SpdySynStreamFrame.java
  */opt/cola/permits/1153055891_1618392512.74/0/netty-codec-http-4-1-61-final-sources-
  jar/io/netty/handler/SpdyPingFrame.java
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Protocol Buffers for Go with Gadgets

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

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tomb - support for clean goroutine termination in Go.

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1.2103 gosnowflake 1.5.0

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at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
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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" && 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 := iouutil.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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BSON library for Go

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1.2117 renekroon-ttlcache 2.1.0

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1.2118 libunistring 0.9.10 1

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1.2119 pytoml 0.1.2

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Metadata-Version: 1.0
Name: pytoml
Version: 0.1.0
Summary: A parser for TOML-0.4.0
Home-page: https://github.com/avakar/pytoml
Author: Martin Vejnír
Author-email: avakar@ratatanek.cz
License: MIT
Description: UNKNOWN
Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/1156519782_1619204203.35/0/pytoml-0-1-2-3-zip/pytoml-0.1.2/test/pytoml.egg-info/PKG-INFO

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.0
Name: pytoml
Version: 0.1.2
Summary: A parser for TOML-0.4.0
Home-page: https://github.com/avakar/pytoml
Author: Martin Vejnír
Author-email: avakar@ratatanek.cz
License: MIT
Description: UNKNOWN
Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/1156519782_1619204203.35/0/pytoml-0-1-2-3-zip/pytoml-0.1.2/pytoml.egg-info/PKG-INFO
* /opt/cola/permits/1156519782_1619204203.35/0/pytoml-0-1-2-3-zip/pytoml-0.1.2/PKG-INFO
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1.2121 libffi 3.2.1 6

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1.2123 github.com/james4k/rcon 0.0.0-20120923215419-8fbb8268b60a

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1.2125 githubcomgoopenapistrfmt v0.20.2

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.2137 github.com/influxdata/apcupsd 0.0.0-
20210427145308-694d5caeada0e

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

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tomb - support for clean goroutine termination in Go.

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1.2145 x-sys 0.0.0-20201112073958-5cba982894dd

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1.2146 armon-go-metrics 0.3.3

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1.2147 api v0.4.0

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1.2148 libsnmp30 5.7.3+dfsg-5+deb10u2

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* /opt/cola/permits/1212207467_1635496455.04/0/grpc-protobuf-1-27-1-sources-1-jar/io/grpc/protobuf/ProtoFileDescriptorSupplier.java
* /opt/cola/permits/1212207467_1635496455.04/0/grpc-protobuf-1-27-1-sources-1-jar/io/grpc/protobuf/ProtoUtils.java

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* /opt/cola/permits/1212207467_1635496455.04/0/grpc-protobuf-1-27-1-sources-1-jar/io/grpc/protobuf/ProtoMethodDescriptorSupplier.java

1.2162 golang-protobuf-extensions v1.0.2-0.20181231171920-c182affec369

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
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  Original author of sensord.
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Dynamic chip feature detection (a.k.a. generic chip support) in 
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* Jean Delvare
New libsensors API, and migration of sensors and sensord thereto.
Many optimizations in libsensors and sensors.
Configuration file converter.
Rewrite of sensors-detect.
Support for multiple configuration files in libsensors.

1.2166 python-requests 2.26.0
1.2166.1 Available under license :
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1.2204 sigs-k8s-io-yaml v1.2.0

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package empty_interface

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

type Empty interface{}

// This is a mock copyright header.
//
// Lorem ipsum dolor sit amet, consectetur adipiscing elit,
// sed do eiusmod tempor incididunt ut labore et dolore magna
// aliqua. Velit ut tortor pretium viverra suspendisse potenti.
//

// Code generated by MockGen. DO NOT EDIT.
// Source: input.go

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

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

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

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

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

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

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1.2211 zeromq 4.3.3-r1

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1.2215 x-net 0.0.0-20200625001655-4c5254603344

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

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

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

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

req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // 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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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.
}
def 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"
  "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.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

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
    }
}

// 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{
    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, 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 = 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 := &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)

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

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.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()
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
}
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 {
        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
      }
  }
  internalFetch = it.InternalFetch
  internalFetch
// 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 nil, 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
}
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.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
*protojson.MarshalOption{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 = 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.UnmarshalOption{AllowPartial: true, DiscardUnknown: true}
rsp := &compute.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"
    "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
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)

    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
    }

    return &computepb.LicenseCode{
        "License Code": 
    }, nil
}
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.TestIamPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

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

    if err != nil {
        return nil, err
    }

    httpReq = httpReq.WithContext(ctx)
    // 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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1.2221 go-uber-org-atomic v1.6.0

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1.2222 mergo v0.3.10

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

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metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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1.2231 github.com/grid-x/modbus 0.0.0-20210224155242-c4a3d042e99b

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers.

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1.2240 kubernetes-klog 1.0.0

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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
        }
        for _, s := range sentinels {
            if !strings.Contains(src, s) {
                t.Errorf("%s not found in %s", s, 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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1.2251 controller-runtime 0.7.2

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 * Rob Siemborski
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1.2253 idna 2.7-1.ph3

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```python
import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
    }
```

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'author_email': 'kim@cynosure.com.au',
'license': 'BSD-like',
'url': 'https://github.com/kjd/idna',
'classifiers': [
    'Development Status :: 5 - Production/Stable',
    'Intended Audience :: Developers',
    'Intended Audience :: System Administrators',
    'License :: OSI Approved :: BSD License',
    'Operating System :: OS Independent',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2.6',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    'Topic :: Utilities',
],
'test_suite': 'tests',

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1161616786_1621638310.0/0/idna-2-7-1-tar-gz/idna-2.7/setup.py

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<div>
...attributes
class="consul-intention-permission-form"
>
<FormGroup
@name={{name}}
as [group]>

{{yield (hash
submit=(action 'submit' changeset)
reset=(action 'reset' changeset)

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

<fieldset>
<div data-property="action">
<span class="label">
Should this permission allow the source connect to the destination?
</span>
</div>
<div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
{{#each intents as |intent|}}
<label>
<span>{{capitalize intent}}</span>
<input
type="radio"
name="Action"
value={{intent}}
checked={{if (eq changeset.Action intent) 'checked'}}
onchange={{action (changeset-set changeset 'Action') value="target.value"}}/>
</label>
{{/each}}
</fieldset>

<fieldset>
<header>
<h2>Path</h2>
</header>
<group.Element
@name="PathType"
@type="select"
as [el]>

</fieldset>
<el.Label>
Path type
</el.Label>

<PowerSelect
  @options={{pathTypes}}
  @selected={{pathType}}
  @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
  {{get pathLabels Type}}
</PowerSelect>

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

<fieldset>
<h2>Methods</h2>
<div class="type-toggle">
  <span>All methods are applied by default unless specified</span>

  <group.Element
    @name="allMethods"
    as [el]>
    <el.Checkbox
      checked={{if allMethods 'checked'}}
      onchange={{action 'change' 'allMethods' changeset}}
    ></el.Checkbox>
  </group.Element>
</div>
</fieldset>
<el.Label>
  All Methods
</el.Label>
</group.Element>
</div>

{{#if shouldShowMethods}}
<div class="checkbox-group" role="group">
  {{#each methods as [method]}}
    <label class="type-checkbox">
      <input
        type="checkbox"
        name="method"
        value={{method}}
        checked={{if (contains method changeset.HTTP.Methods) 'checked'}}
        onchange={{action 'change' 'method' changeset}}
      />
      <span>{{method}}</span>
    </label>
  {{/each}}
</div>
{{/if}}
</fieldset>

<fieldset>
  <h2>Headers</h2>

  <Consul::Intention::Permission::Header::List
    @items={{changeset-get changeset 'HTTP.Header'}}
    @ondelete={{action 'delete' 'HTTP.Header' changeset}}
  as [headerList]>

  </Consul::Intention::Permission::Header::List>
</fieldset>

<Consul::Intention::Permission::Header::Form
  @onsubmit={{action 'add' 'HTTP.Header' changeset}}
  as [headerForm]>
  <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
</Consul::Intention::Permission::Header::Form>

<button
  data-test-add-header
  type="button"
  class="type-submit"
  disabled={{if (not this.headerForm.isDirty) 'disabled'}}
  onclick={{action this.headerForm.submit}}
>


Add{{#if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0)}} another{{/if}} header
</button>
<button
type="button"
class="type-cancel"
onclick={{action this.headerForm.reset}}>
 Cancel
</button>

</fieldset>
</FormGroup>
</div>

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class="consul-intention.notice.notice-custom-resource crd"
...attributes
@type=[ { or @type "info" } ]
as [notice]>
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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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@import './skin';
@import './layout';
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---
layout: commands
page_title: 'Commands: License'
The license command provides a datacenter-level view of the Consul Enterprise license. This was added in Consul 1.1.0 but Consul 1.10.0 removed the ability to set and reset the license using the CLI. See the [licensing documentation](/docs/enterprise/license/overview) for more information about Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in order to use this command. Requests are forwarded internally to the leader if required, so this can be run from any Consul node in a cluster. See the [ACL Guide](https://learn.hashicorp.com/consul/security-networking/production-acls) for more information.

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

This command has subcommands for managing the Consul Enterprise license. Here are some simple examples, and more detailed examples are available in the subcommands or the documentation.

Install a new license from a file:

    $ consul license put @consul.license

Install a new license from stdin:

    $ consul license put -

Install a new license from a string:

    $ consul license put "<license blob>"

Retrieve the current license:

    $ consul license get

Inspect a license:

    $ consul license inspect "<path to license file>"
Reset the current license:

```
$ consul license reset
```

For more examples, ask for subcommand help or view the documentation.

Subcommands:
- get        Get the active license
- inspect    Inspect a signed license
- put        Puts a new license in the datacenter
- reset      Resets the license in the datacenter

## inspect

This command inspects and validates a license. Just like a Consul agent it can load the license from a file on disk or from the `CONSUL_LICENSE` and `CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [options] [license file]`

Inspect a license contained in a file:

```
$ consul license inspect consul.hclic
```

Inspect a license loaded from the environment:

```
$ consul license inspect
```

This will look at the CONSUL_LICENSE environment variable first and if not present then we will look for the file specified by the CONSUL_LICENSE_PATH environment variable.

The output looks like this:

```
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
```
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC

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  Global Visibility, Routing and Scale
  Governance and Policy

Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
  Namespaces
  SSO
  Audit Logging
  Admin Partitions

License is valid

...  
## put

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

This command sets the Consul Enterprise license.

Usage: `consul license put [options] LICENSE`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
```
## get

This command gets the Consul Enterprise license.

Usage: `consul license get [options]`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6e-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```

## reset

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid. If the builtin license is invalid, the current one stays active.

Usage: `consul license reset [options]`

#### API Options
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{{#if (gt items.length 0)}}
<ListCollection
class="consul-intention-permission-list{{if (not onclick) ' readonly'}}"
@scroll="native"
@items={{items}}
@partial={{5}}
as [item]>
<BlockSlot @name="details">
<dl class="permission-methods">
<dt>
<Tooltip>
Methods
</Tooltip>
</dt>
<dd>
{{#each item.HTTP.Methods as |item|}}
  {{item}}
{{/each}}
</dd>
{{/if}}
{{#if item.HTTP.Path}}
<dl class="permission-path"
<dt>
  <Tooltip>
    {{item.HTTP.PathType}}
  </Tooltip>
</dt>
<dd>
  {{item.HTTP.Path}}
</dd>
</dl>

{{/if}}

{{#each item.HTTP.Header as |item|}}
<dl class="permission-header">
  <dt>
    <Tooltip>
      Header
    </Tooltip>
  </dt>
  <dd>
    {{item.Name}} {{route-match item}}
  </dd>
</dl>
{{/each}}
</div>
</BlockSlot>

{{#if onclick}}
<BlockSlot @name="actions" as |Actions|>
  <Actions as |Action|>
    <Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={{true}}>}
      <BlockSlot @name="label">
        Edit
      </BlockSlot>
    </Action>
    <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
      <BlockSlot @name="label">
        Delete
      </BlockSlot>
    </Action>
  </Actions>
</BlockSlot>

<Confirmation class="warning">
  <BlockSlot @name="header">
    Confirm delete
  </BlockSlot>
  <BlockSlot @name="body">
    <p>
      Are you sure you want to delete this permission?
    </p>
  </BlockSlot>
  <Confirm>Delete</Confirm>
</Confirmation>
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>>> aws_aws-sdk-go_aws-master
>>> coreos_etcd_client-781196fa8746d6c34ace2a62898051af6dc46002
>>> coreos_etcd_version-781196fa8746d6c34ace2a62898051af6dc46002
>>> coreos_go-semver_semver-5e3acbb5668c4c3deb482615c4098eb61fb6b1e
>>> docker_distribution-28602af35aced2af8d571bad7ca37a54cf0250bc
>>> docker_go-events-aa2e3b613bbfdddbe055a7b9e3ce271cf83eca
>>> docker_libnetwork-fd27f22aa35ed57f8868f919d05b744f431fd
>>> docker_trust-9ebda1374f690568a4eb3694a130610ad62a
>>> go-openapi_analysis-d5a75b7d771ca3f11ad5d93cfe97405f2c3f6a47
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>>> go-openapi_jsonpointer-779f45308c19820f169e9a4cd965f96e0dda10f
>>> go-openapi_jsonreference-36d33be519efa5632669801b180bf1a245da3b
>>> go-openapi_jsonschema-6bb6486231e079ea125c0f39994ed3d0c53399ed
>>> go-openapi_runtime-3b13ebb46790d871d74a6c2450fa4b1280f90854
>>> go-openapi_semver-ec072eb2390da03736a6eb617d30f48369160447
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>>> go-openapi_validate-035dcd74f161e83deb1c22950dc53556e7e4b2
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>>> go_internal-cd0da878e66091060d2e7403ab62192b3e387e0
>>> golang_log-23def4e6c14bda8ac2ed8007337bc5eb5007998
>>> golang_groupcache_lru-72d04f9fdec7d3821800e4f150e0553639a
>>> govmoni-v0.17.1
>>> maruel_panicparse_stack-25bcac0d793cf4109483505a0fd66e066a3a90a80
>>> oxtoacart/bpool-4e1c5567d7c2dd59fa4c7c83d34c2f3528b025d6
>>> syncutil_singleflight-7ce08ca145db0e66a127c447b800ee7914f3e4f9
>>> vhdeemer_shakers-24d7f16a71aa59cbe7390e4af66b7eef9e1b3
>>> vishvananda_netlink-482f1a52b758233521878cb65904b6dbd3f3457
>>> vishvananda_netns-604eaf189ee867d8c147fa28def2394e878d25
>>> yaml_v2-4c78c975e7c825c6d1466c42be594d1df3aba6

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>>> airbrake_gobrake_v2-c9d5b03b91d77701a1936977f1d3b55da4002bbcb
>>> armon_go-radix-4329b77079c7b5d12437b4736304ce8d6b0f2
>>> asaskevich_govalidator-9699ab6b38bee202cd3fe8b99ecf67663595e96
>>> azure_go-ansiterm-70b2c90b260171e829f1beb7c17f600c11858dbd
>>> boltdb_bolt-b514920f8f2e0a68f857e5a12c774f385a59ae9
>>> cenkalti_backoff-b02fb2bce11d7ea6b9f728fef1771b0fe26f5ef3
>>> client9_misspell-9a1fc2456ace9e8c9b4cbe9d005b6be7adac0d357f
>>> codegangsta/inject-33e0a1eb7c019ccccf3b0e049a8262a6403d30504
>>> codegangsta_cli-master
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>>> d2g_dhcp4f0e2d49ff0231dce36e250b2ed9f08412584bca
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>>> gemnasium_logrus-airbrake-hook_v2-31e67d4bd5a98d8ee7673d24bc54ec73c31810dd
>>> gizak_termui-798fb9bcbbe4073eef188e6069ca4a2c6aa6676b
>>> go-check_check-20dd2c8204050c1cd24a7eea1e7a447d0d7e4ec
>>> go-martini/martini-22faa46961aadb2665cf3f1343b146d20028f5071
>>> go-ns-client-42fca177a36031d648551c751d1e1daf5f55dd40
>>> godbus_dbus-230e4b2db2fd81c53ea007376659d4849ec51
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>>> golang_lint-cb00ce56695390f47b2f453a42a101b0c8e1726c
>>> google_google-http-github-b7a51f928f5a1965d351d33f848943ef54ff
>>> google_google-querystring_query-53e6c1e16135b80d037921a7fdd5138cf32d7a8
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>>> gorilla_sessions-ca9ada445741534440b03fd9c8559e4cc95f896
>>> gorilla_websocket-a91ebe797777490bce2e435f534d41d20c5720
>>> graylog2_go_gelf-gelf-master
>>> gRPC-b1a2821ca5a4fd6b6e48ddffbb76d67584d839d21
>>> hpccloud_tail-a30252cb686a21eb2d0b98132633053e2ff7fe5
>>> jessevdk_go-flags-97448c91aad742c7ca3d020b3e769013a420a06f
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>>> justinas/alice-1051eaf52fccaфф87ead59d28b065f1fcb8274e
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>>> matryer_resync-d39c09a11215c84aab0b65e323fc47ddfe276af1
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>>> mdlayher/ethereum-e72cf8343052938936194daba1914fd1bb33d2fe
>>> mdlayher/raw-c83864a487652c25edc58048eafdc1dafa2f142c7
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>>> microsoft_hcsshim-d327ca738085de7d617a1df16d98fe7a64c2455
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>>> opennotta_urn-urls:5fa9ff039274aeae1c437f7ce4c65afa7a9587
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>>> puerkitobio_purell-d69161f51cdefcd7514d6a380847af152dc2a749d
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>>> urfave/negroni-ccc4a14984828dcb944e61f7a4a967b18624f2b
>>> urfave_cli_v1-0bdddbeebf0650497d603e4ad7b20cfe685682f6
>>> x_crypto_acme-728b753d0135da6801d54a38e6f43ff55779c5c2
>>> x_crypto_curve25519-728b753d0135da6801d54a38e6f43ff55779c5c2
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>>> x_crypto_ssh-728b753d0135da6801d54a38e6f43ff55779c5c2
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>>> x_net_http2-a6577fac2d73be281a500b31073905313165611
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>>> x_net_lex_httplex-a6577fac2d73be281a500b31073905313165611
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>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875fb671b3ddc66f8e2f0acc33829c8cb989a38d
>>> hashicorp_memberlist-cef12ad58224d55cf26ca9e3ed2239e2fc83432a2

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>>> photon-release-2.0-2.ph2

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>>> curl-7.59.0-4.ph2
>>> expat-2.2.4-1.ph2
>>> iputils-20151218-4.ph2
>>> krb5-1.16-2.ph2
>>> libarchive-3.3.1-2.ph2
>>> libcap-2.25-7.ph2

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>>> libdb-5.3.28-1.ph2
>>> libffi-3.2.1-5.ph2
>>> libgolv-0.6.26-3.ph2
>>> libssh2-1.8.0-1.ph2
>>> libtirpc-1.0.1-8.ph2
>>> linux-pam-1.3.0-1.ph2
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>>> ncurses-6.0-14.ph2
>>> openssh-7.5p1-11.ph2
>>> openssl-1.0.2q-1.ph2
>>> pcres-8.41-1.ph2
>>> popt-1.16-5.ph2
>>> shadow-4.2.1-16.ph2
>>> sqlite-3.22.0-3.ph2
>>> sudo-1.8.20p2-5.ph2
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>>> gcc-6.3.0-7.ph2
>>> iproute2-4.10.0-3.ph2
>>> iptables-1.6.1-4.ph2
>>> linux-esx-4.9.154-1.ph2
>>> logrotate-3.11.0-3.ph2
>>> mingetty-1.08-2.ph2
>>> net-tools-1.60-11.ph2
>>> procps-ng-3.3.15-2.ph2
>>> rpm-4.13.0.2-1.ph2
>>> tdnf-1.2.3-6.ph2
>>> util-linux-2.32-1.ph2

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>>> coreutils-8.27-3.ph2
>>> elfutils-0.169-3.ph2
>>> grep-3.0-4.ph2
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>>> haveged-1.9.1-4.ph2
>>> readline-7.0-2.ph2

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>>> glib-2.52.1-3.ph2

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>>> ca-certificates-20180919-1.ph2
>>> nspr-4.15-1.ph2
>>> nss-3.31.1-1.ph2

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>>> codegangsta/inject-33e0aa1cb7c019ccc3fbe049a8262a6403d30504

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>>> codegangsta_cli-master

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca

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>>> deckarep_golang-set-1f0f4ff8d3fbe9328522993ce71c35890f67554

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>>> dustin_go-humanize-259d2a102b871d17f30e3cd9881a642961a1e486

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd

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>>> gizak_termui-798ffb9cbbe4073ef1f88e6069ca4a2c6aa6676b

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>>> go-martini/martini-22fa46961aabd2665cf3f1343b146d20028f5071

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Protocol Buffers for Go with Gadgets

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protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7/plugin/compare/compare.go

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```go
>>> goji/param-d7f49fd7d1ed53fd562e737a8b5bbcc7e3d925e2

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>>> tomb_v1-dd632973f1e7218eb1089048e0798ec9ae7dceb8

tomb - support for clean goroutine termination in Go.

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>>> ugorji_go_codec-708a42d246822952f38190a8d8c4e6b16a0e600c

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>>> urfave/negroni-ccc4a14984828dcb944e6f17fa4a967b18624f2b

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>>> x_crypto_acme-728b753d0135da6801d45a38e6f43ff55779c5c2

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>>> x_crypto_curve25519-728b753d0135da6801d45a38e6f43ff55779c5c2

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```plaintext
>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2
```

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>>> x_crypto_poly1305-728b753d0135da6801d45a38e6f43ff55779c5c2

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+build appengine

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interface at /s and shortened urls from /s/key.
It is designed to run only on the instance of godoc that serves golang.org.
package short

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Julian Seward, jseward@bzip.org
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
and the initial implementation of incremental propagation, including
the following new or changed files:

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

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Bison implementation for Yacc-like parsers in C


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```
-- vile: txtmode file-encoding=utf-8

>>> openssh-7.5p1-11.ph2

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@version 3.0 (December 2000)

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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vim-8.0.0533\runtime\tools\efm_perl.pl
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chkconfig: 2345 11 89
description: sets up CBQ-based traffic control

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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
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arch\blackfin\include\asm\bfin_pfmon.h

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Reasonably optimised generic C-code for memcpy on Microblaze
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This code offers a very basic support for this EISA bus present in
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for the time being). This is enough for a low-end ethernet card,
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A more complete resource is the third edition of "Linux Device Drivers" by Jonathan Corbet, Alessandro Rubini, and Greg Kroah-Hartman. LDD3 is available for free (under Creative Commons License) from:

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However, keep in mind that all documents are subject to "bit rot". Refer to the source code if things are not working as described here.

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mkinstalldirs --- make directory hierarchy
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Based on scriptreplay.pl by Joey Hess <joey@kitenet.net>

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line - read one line


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uuidparse.c --- Interpret uuid encoded information. This program
violates the UUID abstraction barrier by reaching into the
guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no)
to read /etc/passwd directly so that passwd, chsh and chfn can work on
machines that run NIS (previously YP). Changes will not be made to
usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so
you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A _normal user_ program should never directly manipulate etc/passwd but
/use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to _edit_ the password file. For use by chfn,
chsh and passwd. _I HAVE_ to read and write /etc/passwd directly. Let
those who say nay be forever silent and think about how getpwnam (and
family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to
stderr, this is a library function and should not print on the screen, but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poer $
$Revision: 1.13 $
$Date: 1997/06/23 08:26:29 $

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Python bindings for the libmount library.

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Written by Ondrej Oprala and Karel Zak

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Bison implementation for Yacc-like parsers in C


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bash-4.4.tar.gz/bash-4.4.tar/bash-4.4/parser-built

A Bison parser, made by GNU Bison 3.0.4.

Bison interface for Yacc-like parsers in C


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/ Bison implementation for Yacc-like parsers in C


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(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function,
which is used to allocate space off the run-time stack so
that it is automatically reclaimed upon procedure exit,
was inspired by discussions with J. Q. Johnson of Cornell.
J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can
be defined when compiling for your specific system, for
improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep
track of all alloca-allocated blocks, and reclaim any
that are found to be deeper in the stack than the current
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soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can
be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.

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Heavily modified for GnuPG by Werner Koch

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DRBG: Deterministic Random Bits Generator
Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:
CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores with and without prediction resistance

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Test Socket Type

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------------- SECTI0N 4: GNU Library General Public License, V2.0 -------------

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Version 2, June 1991

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This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
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ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
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that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Version 2.1, February 1999

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under
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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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-------------- SECTION 21: SIL Open Font License, V1.1 ------------

SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

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```html
<div
  type="select"
  as="fieldGroup">
  <label>Header type</label>
  <select
    @options="[headerTypes]
    @selected="headerType"
    @onChange="[action 'change' 'HeaderType' changeset] as [Type]"
    
  
  </select>
</div>
```
import (  
  "fmt"  
  "io/ioutil"  
  "time"  
  )

type License struct {
  // The unique identifier of the license
  LicenseID string `json:"license_id"`
// The customer ID associated with the license
CustomerID string `json:"customer_id"

// If set, an identifier that should be used to lock the license to a
// particular site, cluster, etc.
InstallationID string `json:"installation_id"

// The time at which the license was issued
IssueTime time.Time `json:"issue_time"

// The time at which the license starts being valid
StartTime time.Time `json:"start_time"

// The time after which the license expires
ExpirationTime time.Time `json:"expiration_time"

// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"

// The product the license is valid for
Product string `json:"product"

// License Specific Flags
Flags map[string]interface{} `json:"flags"

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"

// List of features enabled by the license
Features []string `json:"features"

}

type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}
func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer closeResponseBody(resp)
    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }
    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (*Operator) LicenseReset(_ *WriteOptions) (*LicenseReply, error) {
    return nil, fmt.Errorf("Consul 1.10 no longer supports API driven license management.")
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (*Operator) LicensePut(_ string, _ *WriteOptions) (*LicenseReply, error) {
    return nil, fmt.Errorf("Consul 1.10 no longer supports API driven license management.")
}

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All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend on which binary is in use, whether the agent is a server, client or snapshot agent and whether ACLs have been enabled for the cluster.
** Consul Enterprise 1.10.0 removed temporary licensing.** In previous versions Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also prior to 1.10.0 server agents would automatically propagate the license between themselves. This no longer occurs and the license must be present on each server when they are started.

Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

### Binaries with Built In Licenses

If you are downloading Consul from Amazon S3, then the license is included in the binary and you do not need to take further action. This is the most common use case.

In the S3 bucket you will find three Enterprise zip packages. The packages with `+pro` and `+prem` in the name, are the binaries that include the license. The package with `+ent` in the name does not include the license.

When using these binaries no further action is necessary to configure the license.

### Binaries Without Built In Licenses

For Consul Enterprise 1.10.0 or greater, binaries that do not include built in licenses a license must be available at the time the agent starts.

For server agents this means that they must either have the `[license_path](/docs/agent/options#license_path)` configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or `CONSUL_LICENSE_PATH` environment variables. Both the configuration item and the `CONSUL_LICENSE_PATH` environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple of these are set the order of precedence is:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Both client agents and the snapshot agent may also be licensed in the very same manner. However to prevent the need to configure the license on many client agents and snapshot agents those agents have the capability to retrieve the license automatically under specific circumstances.

#### Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn't need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the
or `retry_join` configurations. If those are both unset or no `agent` token is set then the client agent will immediately shut itself down.

If all preliminary checks pass the client agent will attempt to reach out to any server on its RPC port to request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.
Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

#### Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents, the snapshot agent will shut itself down after being unable to retrieve the license for 5 minutes.

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# Notice

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

```hbs
```
```
```
```
```
## Arguments

<table>
<thead>
<tr>
<th>Argument/Attribute</th>
<th>Type</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>type</code></td>
<td><code>String</code></td>
<td><code>info</code></td>
<td>Type of notice [info</td>
</tr>
</tbody>
</table>

## See

- [Template Source Code](./index.hbs)

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```css
@import './skin';
@import './layout';

%notice {
  margin: 1em 0;
}
/**/
.notice.success {
  @extend %notice-success;
}
.notice.warning {
  @extend %notice-warning;
}
.notice.error {
  @extend %notice-error;
}
.notice.info {
  @extend %notice-info;
}
.notice.highlight {
  @extend %notice-highlight;
}
.notice.policy-management {
  @extend %notice-highlight;
}
.notice.crd::before {
  -webkit-mask-image: none;
  mask-image: none;
  background-color: transparent;
  @extend %with-logo-kubernetes-color-icon;
}
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```
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%notice {
  border-radius: $decor-radius-100;
  border: $decor-border-100;
  color: $black;
}

%notice::before {
  @extend %as-pseudo;
}

%notice header > * {
  @extend %h300;
}

%notice footer * {
  @extend %p3;
  font-weight: $typo-weight-bold;
}

%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
  @extend %notice;
}

%notice-success {
  background-color: $green-050;
  border-color: $green-500;
}

%notice-info {
  border-color: $blue-100;
  background-color: $gray-010;
}

%notice-info header * {
  color: $blue-700;
}

%notice-highlight {
  background-color: $gray-050;
  border-color: $gray-300;
}

%notice-highlight header * {
  color: $gray-700;
}

%notice-warning {
  border-color: $yellow-100;
  background-color: $yellow-050;
}

%notice-warning header * {
  color: $yellow-800;
}

%notice-error {
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===============

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---

layout: api
page_title: License - Operator - HTTP API
description: |
The /operator/license endpoint allows for retrieving the Consul Enterprise License.
---

# License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

### Getting the Consul License

This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/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/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved.
  This will default to the datacenter of the agent serving the HTTP request.
  This is specified as a URL query parameter.

### Sample Request

```shell-session
$ curl
```
http://127.0.0.1:8500/v1/operator/license

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
```

## Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/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/features/blocking), [consistency modes](/api/features/consistency),
[agent caching] (/api/features/caching), and
[required ACLs] (/api#authentication).

<table>
<thead>
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<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` (string: "") - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```
$ curl
   --request PUT
   --data @consul.license
   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
```
## Resetting the Consul License

**Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>DELETE</code></td>
<td><code>/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/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

<table>
<thead>
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<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
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<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` *(string: "")* - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```shell-session
$ curl \
  --request DELETE \n  http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
```
"Valid": true,
"License": {
  "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
  "customer_id": "0259271d-8ff2-e85e-0830-c0822c1f5f2b",
  "installation_id": "*",
  "issue_time": "2018-05-21T20:03:35.911567355Z",
  "start_time": "2018-05-21T04:00:00Z",
  "expiration_time": "2019-05-22T03:59:59.999Z",
  "product": "consul",
  "flags": {
    "package": "premium"
  },
  "features": [
    "Automated Backups",
    "Automated Upgrades",
    "Enhanced Read Scalability",
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation"
  ],
  "temporary": false
},
"Warnings": []

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

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Portions of the client are based on code at:
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"

    // no documentation yet
    WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"
}

type Legal_RegulatedWorkload_Type struct {
    Entity

    // no documentation yet
Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"`

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KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"`

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layout: docs
page_title: Consul Enterprise License FAQ
# Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0. Consul Enterprise automatically loads Consul licenses when the server agent starts.

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

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file. If the license is missing, invalid, or expired, the server will immediately exit. This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol. This will no longer work since each server must be able to find a valid license during the startup process.

## Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release. During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.

The upgrade process varies if ACLs are enabled or disabled in the cluster. Refer to the instructions on [upgrading to 1.10.x](https://www.consul.io/docs/enterprise/upgrades/instructions/upgrade-to-1-10-x) for details.

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

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

## Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](https://www.consul.io/docs/enterprise/upgrades)

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

- [License configuration values documentation](https://www.consul.io/docs/enterprise/license/overview#binaries-without-built-in-licenses)

- [Install a HashiCorp Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-
## Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise. This impacts customers that have an enterprise binary (evaluation or non-evaluation licenses) downloaded from https://releases.hashicorp.com. The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

## Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0, a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up. The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

## Q: What is the impact on evaluation licenses due to this change?

The 6-hour trial period for evaluation licenses will be deprecated as of Consul Enterprise 1.10.0. This means that any clusters deployed with Consul 1.10.0+ent binaries will need to have a valid license on the disk (auto-loaded) or as an environment variable. Failure to provide a valid license key will result in the Consul server agent not starting.

## Q: Is there a grace period when licenses expire?

A license includes an `expiration_date` and a `termination_date`. An enterprise binary will cease to function once the `termination_date` has passed. Licenses will now have a 24 hrs grace period. The grace period is the time between license expiry until the time it terminates. As Consul Enterprise approaches the expiration date, warnings will be issued in the system logs.

## Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients. Please review the [upgrade requirements](faq#q-what-are-the-upgrade-requirements) documentation.

## Q: Does this affect snapshot agents?

Same behavior as Consul clients. See answer for [Does this affect client agents?](faq#q-does-this-affect-client-agents)

## Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit. Consul client agents will attempt to retrieve the license from servers if certain conditions are met.
- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `start_join/retry_join` addresses.
- The start/retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `start_join/retry_join` addresses, the start/retry join addresses are addresses of the Consul servers.

## Q: Where can users get a trial license for Consul Enterprise?

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

## Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

## Q: Will this impact HCP Consul?

This will not impact HCP Consul.

## Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for evaluation licenses (non-evaluation licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will** check for the presence of a valid license every time a node restarts**.*.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

## Q: What are the scenarios that a customer must plan for because of these changes?

New Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy.
This valid license must be on-disk (auto-loaded) or as an environment variable.
Please see the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

## Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?
### VM

1. Run `['consul license get -signed']` to extract the license from their running cluster. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/docs/upgrading).

### Kubernetes

**NOTE:** If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, then 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. Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise).
1. Follow the [Kubernetes Upgrade Docs](/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

--> **WARNING:** If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise) for more details.

### Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

### VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
1. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
   Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/docs/upgrading).

### Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
   Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

1. Proceed with the `helm` [upgrade instructions](/docs/k8s/upgrade)

## Q: Will Consul downgrades/rollbacks work?

When downgrading to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

## Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

-> Verify that you meet the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

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

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example.
Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).
The `consul license put` operation will fail due to being removed from 1.10.0.
This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node not running 1.10.0+.
This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

## Q: Any impacts to Consul Kubernetes?

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

```yaml
server:
  enterpriseLicense:
    enableLicenseAutoload: false
```

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

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  * VI syntax highlighting tweaks.
  * Fix compiler to not make output executable.
Dilip Joseph <dilip.antony.joseph@gmail.com>
  * Heuristic detection of sub-messages when printing unknown fields in
text format.
Brian Atkinson <nairb774@gmail.com>
  * Added @Override annotation to generated Java code where appropriate.
Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
  * Tru64 support.
Monty Taylor <monty.taylor@gmail.com>
  * Solaris 10 + Sun Studio fixes.
Alek Storm <alek.storm@gmail.com>
  * Slicing support for repeated scalar fields for the Python API.
Oleg Smolsky <oleg.smolsky@gmail.com>
  * MS Visual Studio error format option.
  * Detect unordered_map in stl_hash.m4.
Brian Olson <brianolson@google.com>
  * gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
  * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
  * Added generation of field number constants.
Wink Saville <wink@google.com>
  * Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
  * Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
  * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
  * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
  * HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
  * Detect whether zlib is new enough in configure script.
  * Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
  * Optimize Java serialization code when writing a small message to a stream.
  * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
  * Clean up some Java warnings.
  * Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
  * Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
  * Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
  * Fixed detection of sched_yield on Solaris.
  * Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
  * Fixed minor IBM xIC compiler build issues
  * Added atomicops for AIX (POWER)

1.2261 golang-snappy 0.0.1
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a52f23424492

1.2263 utils 0.0.0-20210707171843-
4b05e18ac7d9

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1.2264 errors 0.8.1

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

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Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

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1.2282 log4j-api 2.13.2

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/Comparators.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/ForwardingNetwork.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/ForwardingValueGraph.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/MutableValueGraph.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/NetworkConnections.java
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 * /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/EmptyImmutableListMultimap.java
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 * /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/Tables.java
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 * /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/StandardRowSortedTable.java
 * /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/ImmutableCollection.java
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jar/com/google/common/collect/PeekingIterator.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/RegularContiguousSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources- jar/com/google/common/collection/BaseImmutableMultimap.java

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources- jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources- jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources- jar/com/google/common/primitives/ImmutableDoubleArray.java
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 * /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/FilteredKeyMultimap.java
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* 
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
* java.util.HashMap class.
*/

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/CommonMatcher.java
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 */

/**
 * Holder for web specializations of methods of [code Floats]. Intended to be empty for regular version.
 */

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/BaseGraph.java
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 */
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 * 
 * <p>This method assumes that the collection size doesn't change while the method is running.
 * 
 * <p>TODO(kevinb): support concurrently modified collections?
 * 
 * @param c the collection for which to return an array of elements
 */

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jar/com/google/common/collection/ImmutableAsList.java
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jar/com/google/common/collection/SingletonImmutableTable.java
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jar/com/google/common/collection/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collection/AbstractIndexedListIterator.java
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 */

Found in path(s):
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/util/concurrent/IgnoreJRERequirement.java

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/eventbus/SubscriberRegistry.java

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/package-info.java

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 */
/**
 * Holder for web specializations of methods of [code Ints]. Intended to be empty for regular
 * version.
 */

Found in path(s):
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/primitives/IntsMethodsForWeb.java
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 */
/**
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
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 */
Found in path(s):
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/Hashing.java

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/Verify.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/Runnables.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/math/BigDecimalMath.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/hash/Java8Compatibility.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/Java8Compatibility.java

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/hash/Java8Compatibility.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/math/ToDoubleRounnder.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/Java8Compatibility.java
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 */
/**
 * Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
 * {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
 * under GWT but with a slightly different signature.
 *
 * We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
 * it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */

Found in path(s):
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/util/concurrent/Partially.java

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/CompactHashMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/TransformedIterator.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/ForwardingNavigableSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/CompactHashSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/CompactLinkedHashMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/ForwardingDeque.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/EvictingQueue.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/FilteredMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/FilteredKeyListMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/ForwardingBlockingDeque.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/TreeRangeMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/ImmutableEnumMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/FilteredSetMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/TreeTraverser.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/ForwardingImmutableMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/DescendingImmutableSortedSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/RangeMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/FilteredEntryMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/TransformedListIterator.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/SortedMultisetBridge.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/FilteredEntrySetMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/AbstractNavigableMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collect/FilteredKeySetMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/RegularImmutableAsList.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/CompactLinkedHashSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/ForwardingImmutableList.java

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/*
 * Holder for extra methods of { @code Objects } only in web. Intended to be empty for regular
 * version.
 */

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jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collect/Count.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cka/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collect/SortedIterable.java

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*/
/**
 * Holder for web specializations of methods of [ @code Shorts]. Intended to be empty for regular
 * version.
 */

Found in path(s):
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ExecutionSequencer.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/MultiReader.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/FluentIterable.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/hash/FarmHashFingerprint64.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/Platform.java

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/PredecessorsFunction.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/MutableGraph.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/ImmutableNetwork.java
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/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}</b>
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 * @throws UnsupportedOperationException always
* @deprecated <b>Pass a key of type {@code Comparable} to use {@link ImmutableSortedMap#of(Comparable, Object)}.</b> */

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/Equivalence.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/IncidentEdgeSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/CompactHashing.java
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 */

/*
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Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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MA
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Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source
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Regards, Kurt

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Version 3, 29 June 2007

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1.2296 protobuf v1.4.2

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1.2297 python 3.7.3 1

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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands.
as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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py3compile, py3clean and debpython module:
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1.2298 base-files 9.9+deb9u13

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1.2303 goprotobuf v1.4.2

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

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package empty_interface

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

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

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

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

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

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

// NewMockEmpty creates a new mock instance.
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
    mock := &MockEmpty{ctrl: ctrl}
    mock.recorder = &MockEmptyMockRecorder{mock}
    return mock
}
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1.2316 tools v0.0.0-20200804011535-6c149bb5ef0d

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Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.2319 concurrent v0.0.0-20180306012644-bacd9c7ef1dd

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

**1.2321 apiserver v0.20.1**

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* /opt/cola/permits/1151782002_1617981757.78/0/netty-codec-http-4-1-63-final-sources-
  jar/io/netty/handler/codec/http/HttpServerUpgradeHandler.java
* /opt/cola/permits/1151782002_1617981757.78/0/netty-codec-http-4-1-63-final-sources-
  jar/io/netty/handler/codec/http/HttpClientUpgradeHandler.java
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* /opt/cola/permits/1151782002_1617981757.78/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codecs/spdy/HttpStreamIdHandler.java
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* /opt/cola/permits/1151782002_1617981757.78/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codecs/http/multipart/MultipartContentDecoder.java

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* /opt/cola/permits/1151782002_1617981757.78/0/netty-codec-http-4-1-63-final-sources-jar/io/netty/handler/codec/websocketx/WebSocketClientHandshaker08.java

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### 1.2324 python3-saml 1.9.0

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1.2331 github.com/jackc/pgproto3/v2 2.0.1

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1.2332 hashicorp-golang-lru v0.5.4

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1.2333 gophercloud 0.20.0

1.2333.1 Available under license:

    package RESOURCE

    import (      
        "github.com/gophercloud/gophercloud"      
        "github.com/gophercloud/gophercloud/pagination"
    )

    // RESOURCE represents...
    type Resource struct {
    }

    type commonResult struct {

gophercloud.Result

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"
            Previous string `json:"previous"
            } `json:"links"
        }
    err := r.ExtractInto(&s)
    if err != nil {
        return
    }
    return s.Links.Next, nil
}
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"`
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"`
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}

Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code
========================

At this point, you should have:

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

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

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

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

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

#### A Single Bug Fix

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

#### Adding a Single Field

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

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

#### Adding a Single API Call

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

#### Adding a Suite of API Calls

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

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

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

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

### Adding an Entire OpenStack Project

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

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

What to Include in a Pull Request
-------------------------------

Each Pull Request should contain the following:

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

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

### Unit Tests

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

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

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

### Documentation

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

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

There are two methods of handling this:

### Create Independent Pull Requests

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

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

```
```

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

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

Advantages of this Method:

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

Disadvantages of this Method:

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

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.
Use the following `git` workflow to implement this method:

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

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

Advantages of this Method:

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

Disadvantages of this Method:

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

The choice of method is up to you.

---

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

Step 6: Code Review

=============

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.
Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

**Request a Code Review**

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).
2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (  
    "fmt"  
    "net/http"  
    "testing"  

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"  
    th "github.com/gophercloud/gophercloud/testhelper"  
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.  
const ListResult = `  
{  
}  
`

// GetResult provides a Get result.
```
// CreateRequest provides the input to a Create request.
const CreateRequest = `{
}
`

// UpdateRequest provides the input to an Update request.
const UpdateRequest = `{
}
`

// UpdateResult provides an update result.
const UpdateResult = `{
}
`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{ }

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{ }

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourcesSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourcesSuccessfully(t *testing.T) {
  th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "GET")
    th.TestHeader(t, r, "Accept", "application/json")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    w.Header().Set("Content-Type", "application/json")
    w.WriteHeader(http.StatusOK)
    fmt.Fprintf(w, ListResult)
  })
}
// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

    w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
    fmt.Fprintf(w, GetResult)
})
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "POST")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    th.TestJSONRequest(t, r, CreateRequest)
    w.WriteHeader(http.StatusCreated)
    fmt.Fprintf(w, GetResult)
})
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "DELETE")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

    w.WriteHeader(http.StatusNoContent)
    fmt.Fprintf(w, GetResult)
})
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "PATCH")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    th.TestJSONRequest(t, r, UpdateRequest)
    w.WriteHeader(http.StatusOK)
})
}
fmt.Fprintf(w, UpdateResult)
}

package testing

import {
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
}

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
defer th.TeardownHTTP()
HandleGetResourceSuccessfully(t)

actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleCreateResourceSuccessfully(t)

createOpts := resources.CreateOpts{
    Name: "resource two",
}

actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleDeleteResourceSuccessfully(t)

res := resources.Delete(client.ServiceClient(), "9fe1d3")
th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleUpdateResourceSuccessfully(t)

updateOpts := resources.UpdateOpts{
    Description: "Staging Resource",
}

actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
)
// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {

    // ToResourceListQuery formats a ListOpts into a query string.
    func (opts ListOpts) ToResourceListQuery() (string, error) {
        q, err := gophercloud.BuildQueryString(opts)
        return q.String(), err
    }

    // List retrieves a list of RESOURCES.
    func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
        url := listURL(client)
        if opts != nil {
            query, err := opts.ToResourceListQuery()
            if err != nil {
                return pagination.Pager{Err: err}
            }
            url += query
        }
            return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
        })
    }

    // Get retrieves details of a RESOURCE.
    func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
        resp, err := client.Get(getURL(client, id), &r.Body, nil)
        _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
        return
    }

    // CreateOptsBuilder allows extensions to add additional parameters to
    // the Create request.
type CreateOptsBuilder interface {
        ToResourceCreateMap() (map[string]interface{}, error)
    }

    // CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    resp, err := client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    resp, err := client.Delete(deleteURL(client, id), nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToResourceUpdateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    resp, err := client.Put(updateURL(client, id), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}
r.Err = err
return
}
resp, err := client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
OkCodes: []int{200},
})
_, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
return

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have
only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

/*

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE
Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:
Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658
There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much
appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

==================================

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example:
[https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
type Network struct {
    ID         string `json:"id"`
    Name       string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status     string `json:"status"`
    Subnets    []string `json:"subnets"`
    TenantID   string `json:"tenant_id"`
    Shared     bool `json:"shared"`
}
```

to look like

```go
```
AvailabilityZoneHints []string `json:"availability_zone_hints"
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying
> that the API docs aren't useful or that the contributors who work on the API
> docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update
> documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
Code Hunting Tips
-----------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

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Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](./.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

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When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

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1.2339 grok 1.0.1

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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the 
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copy of the library already present on the user's computer system, 
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will operate properly with a modified version of the library, if 
the user installs one, as long as the modified version is 
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at 
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^L
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^L

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1.2345 github.com/aws/aws-sdk-go-v2/service/internal/accept-encoding 1.0.4
1.2345.1 Available under license :

// 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 received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...
  func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
  params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
  return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

  // Filters to scope the results. The following filters are supported:
  //
  // *
  // ProductSKU
  //
  // Status
  //
  // Fingerprint
  //
  // IssuerName
  //
  // Beneficiary
  Filters []types.Filter

  // Amazon Resource Names (ARNs) of the licenses.
  LicenseArns []string

  // Maximum number of results to return in a single call.
  MaxResults *int32

  // Token for the next set of results.
  NextToken *string

  noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {
// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11 SerializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11 DeserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsMiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
}
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 }}
  with:
    path: new-ref
    fetch-depth: 0
- 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
  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 -i 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 -i 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"
// 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
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }

    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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

package grafana

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns ...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns, c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

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

    noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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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"
)
// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {
    // Amazon Resource Name (ARN) of the license.
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string
}

type GetLicenseOutput struct {
    // 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
}
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 = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

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

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...
    func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
        c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string

    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.

    noSmithyDocumentSerde
}
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.\nNodeId *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 = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }

    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); 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 = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{
        }
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

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 = 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 = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
        return err
    }
}
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(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_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"
}

// List licenses from a service account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }
result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, c.addOperationListLicensesMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // Beneficiary
    //
    // * ProductSKU
    //
    // * Fingerprint
    //
    // * Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListLicensesOutput struct {

    // License details.
    Licenses []types.License

    // Token for the next set of results.
    NextToken *string

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

noSmithyDocumentSerde

}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != 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
    }
    return
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

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

// 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

goSmithyDocumentSerde
}

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

goSmithyDocumentSerde
}

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
    }

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

package licensemanager

import (
    "context"
    awsawsolver "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {
    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string
}
// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.

// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.

// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.

// This member is required.
HomeRegion *string

// License issuer.

// This member is required.
Issuer *types.Issuer

// 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
    }
}

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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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1.2346 go-openapi-spec v0.19.3

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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)
        assertSerializeYAML(t, license, licenseYAML)
        assertParsesJSON(t, licenseJSON, license)
        assertParsesYAML(t, licenseYAML, 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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1.2347 logr 0.1.0

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1.2356 nats-go 1.11.0

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1.2357 e2fsprogs 1.43.4-2+deb9u2

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$ (BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \ @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/ *
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Gadi Oxman, August 1995

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1.2373

github.com/prometheus/snmp_exporter

v0.19.0

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonSyntaxException.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/Streams.java

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonStreamParser.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/FieldAttributes.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonParser.java

1.2376 fsnotify v1.4.7
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