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1.2 x-oauth2 0.10.0

1.2.1 Available under license :

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1.3 kardianos-service 1.2.2

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1.4 gax-go 2.7.0

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1.5 x-net 0.13.0

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1.6 github.com/aws/aws-sdk-go-v2/internal/endpoints/v2 2.4.31

1.6.1 Available under license :

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

package grafana

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opDisassociateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }
}

```

```

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "grafana"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)

```

```

var signingName, signingRegion string
if v4Scheme.SigningName == nil {
    signingName = "grafana"
} else {
    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region: options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,

```

```

    UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
    Endpoint: options.BaseEndpoint,
  },
  "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opCreateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}
}

```

```

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it

```

```

// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
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"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

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

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

type CheckoutLicenseInput struct {

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

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

    // License entitlements.
    //

```

```

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

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

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

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

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

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

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

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

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

```

```

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
        return err
    }
}

```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

type opCheckoutLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {
        var nfe *internalauth.NoAuthenticationSchemesFoundError
        if errors.As(err, &nfe) {
            // if no auth scheme is found, default to sigv4
            signingName := "license-manager"
            signingRegion := m.BuiltInResolver.(*builtInResolver).Region

```

```

    ctx = awsmiddleware.SetSigningName(ctx, signingName)
    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
    return out, metadata, fmt.Errorf(
        "This operation requests signer version(s) %v but the client only supports %v",
        ue.UnsupportedSchemes,
        internalauth.SupportedSchemes,
    )
}
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
    }
}

```

```

    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

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

```

```

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

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

type CheckoutBorrowLicenseInput struct {

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

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string

    noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

```

```

// Information about constraints.
CheckoutMetadata []types.Metadata

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

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

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

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

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addEndpointDisableHTTPSMiddleware(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",
}
}

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

```

```

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
    }
}

```

```

    }
    if v4Scheme.SigningRegion == nil {
        signingRegion = m.BuiltInResolver.(*builtInResolver).Region
    } else {
        signingRegion = *v4Scheme.SigningRegion
    }
    if v4Scheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, signingName)
    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    break
case *internalauth.AuthenticationSchemeV4A:
    v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
    if v4aScheme.SigningName == nil {
        v4aScheme.SigningName = aws.String("license-manager")
    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
    return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
        EndpointResolver: options.EndpointResolverV2,
        BuiltInResolver: &builtInResolver{
            Region:    options.Region,
            UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
            UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
            Endpoint:   options.BaseEndpoint,
        },
    }, "ResolveEndpoint", middleware.After)
}

```

```

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

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

```

```

type opGetLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {

```

```

var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
    // if no auth scheme is found, default to sigv4
    signingName := "license-manager"
    signingRegion := m.BuiltInResolver.(*builtInResolver).Region
    ctx = awsmiddleware.SetSigningName(ctx, signingName)
    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
    return out, metadata, fmt.Errorf(
        "This operation requests signer version(s) %v but the client only supports %v",
        ue.UnsupportedSchemes,
        internalauth.SupportedSchemes,
    )
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
    }
}

```

```

if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:  options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {  
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)  
    if err != nil {  
        return err  
    }  
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)  
    if err != nil {  
        return err  
    }  
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {  
        return err  
    }  
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {  
        return err  
    }  
}
```

```

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

```

```

type opListLicensesResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

func (*opListLicensesResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

```

```

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (

```

```

out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(

```

```

    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

```

```

}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}

```

```

}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addEndpointDisableHTTPSMiddleware(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",
}
}

type opDeleteLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }
}

```

```

params := EndpointParameters{ }

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {

```

```

    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
    v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
    if v4aScheme.SigningName == nil {
        v4aScheme.SigningName = aws.String("license-manager")
    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}

```

}

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

package licensemanager

```
import (  
    "context"  
    "errors"  
    "fmt"  
    "github.com/aws/aws-sdk-go-v2/aws"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"  
    smithyendpoints "github.com/aws/smithy-go/endpoints"  
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
}

```

```

if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addEndpointDisableHTTPSMiddleware(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",
    }
}

type opCheckInLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {

```

```

return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string

```

```

if v4Scheme.SigningName == nil {
    signingName = "license-manager"
} else {
    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
    },
})
}

```

```

    Endpoint: options.BaseEndpoint,
  },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
}

```

```

if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opListReceivedLicensesResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)

```

```

if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
    }
}

```

```

    }
    if v4Scheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, signingName)
    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    break
case *internalauth.AuthenticationSchemeV4A:
    v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
    if v4aScheme.SigningName == nil {
        v4aScheme.SigningName = aws.String("license-manager")
    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
    return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
        EndpointResolver: options.EndpointResolverV2,
        BuiltInResolver: &builtInResolver{
            Region:    options.Region,
            UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
            UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
            Endpoint:  options.BaseEndpoint,
        },
    }, "ResolveEndpoint", middleware.After)
}

```

AWS SDK for Go
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 // Code generated by smithy-go-codegen DO NOT EDIT.

```

package grafana

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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{}
    }

    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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opAssociateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(

```

```

k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "grafana"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "grafana"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)

```

```

    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    break
case *internalauth.AuthenticationSchemeV4A:
    v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
    if v4aScheme.SigningName == nil {
        v4aScheme.SigningName = aws.String("grafana")
    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
}

```

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1.7 go.uber.org/atom 1.7.0

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1.8 dennwc-ioctl 1.0.0

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1.9 prometheus-procfs 0.10.0

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1.10 x-oauth2 0.3.0

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1.11 proto-otlp 1.0.0

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1.12 go-xmlrpc 0.0.3

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Gocheck - A rich testing framework for Go

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Support for streaming Protocol Buffer messages for the Go language (golang).

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

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1.16 klauspost-compress 1.15.11

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1.17 yusufpapurcu-wmi 1.2.2

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1.18 mnuralp-fileutils 0.5.0

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1.19 blang-semver 3.5.1+incompatible

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1.20 fsnotify 1.6.0

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1.21 easyjson 0.7.7

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1.22 yaml 1.3.0

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```

io.helidon.config.yaml.internal.YamlFileTypeDetector

Found in path(s):

```
*/opt/cola/permits/1239779989_1646935505.0/0/helidon-config-yaml-1-3-0-sources-jar/META-INF/services/java.nio.file.spi.FileTypeDetector
```

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* /opt/cola/permits/1239779989_1646935505.0/0/helidon-config-yaml-1-3-0-sources-jar/META-INF/native-image/native-image.properties

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* /opt/cola/permits/1239779989_1646935505.0/0/helidon-config-yaml-1-3-0-sources-jar/META-INF/services/io.helidon.config.spi.ConfigParser

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* /opt/cola/permits/1239779989_1646935505.0/0/helidon-config-yaml-1-3-0-sources-jar/io/helidon/config/yaml/YamlConfigParserBuilder.java
* /opt/cola/permits/1239779989_1646935505.0/0/helidon-config-yaml-1-3-0-sources-jar/io/helidon/config/yaml/internal/package-info.java
* /opt/cola/permits/1239779989_1646935505.0/0/helidon-config-yaml-1-3-0-sources-jar/io/helidon/config/yaml/package-info.java

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Found in path(s):

* /opt/cola/permits/1239779989_1646935505.0/0/helidon-config-yaml-1-3-0-sources-jar/io/helidon/config/yaml/internal/YamlConfigParser.java

1.23 go-jmespath 0.4.0

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1.24 prometheus-client 1.15.1

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1.25 golang 1.21.0

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1.26 go-ole-go-ole 1.2.6

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1.28 sys-mountinfo 0.6.2

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1.29 go-sysconf 0.3.11

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1.30 kubernetes-apimachinery 0.27.4

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1.31 go-connections 0.4.0

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1.32 ema-qdisc 0.0.0-20230120214811-5b708f463de3

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1.34 cobra 1.7.0

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1.35 logr 1.2.3

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LicenseIdentifier string `json:"licenseId"`

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// Cardinality: conditional (mandatory, one) if there is a
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ExtractedText string `json:"extractedText"`

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LicenseName string `json:"name,omitempty"`

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// Cardinality: conditional (optional, one or many) if license
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LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

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LicenseComment string `json:"comment,omitempty"`
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Go support for Protocol Buffers - Google's data interchange format

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Data model artifacts for Prometheus.

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```

```
package v2_3
```

```
// OtherLicense is an Other License Information section of an  
// SPDX Document for version 2.3 of the spec.
```

```
type OtherLicense struct {
```

```
    // 10.1: License Identifier: "LicenseRef-[idstring]"
```

```
    // Cardinality: conditional (mandatory, one) if license is not
```

```
    //         on SPDX License List
```

```
    LicenseIdentifier string `json:"licenseId"`
```

```
    // 10.2: Extracted Text
```

```
    // Cardinality: conditional (mandatory, one) if there is a
```

```
    //         License Identifier assigned
```

```
    ExtractedText string `json:"extractedText"`
```

```
    // 10.3: License Name: single line of text or "NOASSERTION"
```

```
    // Cardinality: conditional (mandatory, one) if license is not
```

```
    //         on SPDX License List
```

```
    LicenseName string `json:"name,omitempty"`
```

```
    // 10.4: License Cross Reference
```

```
    // Cardinality: conditional (optional, one or many) if license
```

```
    //         is not on SPDX License List
```

```
    LicenseCrossReferences []string `json:"seeAlsos,omitempty"`
```

```
    // 10.5: License Comment
```

```
    // Cardinality: optional, one
```

```
    LicenseComment string `json:"comment,omitempty"`
```

```
}
```

```
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```

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

Originals:

<https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.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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1.38 groupcache 0.0.0-20200121045136-8c9f03a8e57e

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1.39 pquerna-ffjson 0.0.0-20190930134022-aa0246cd15f7

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1.40 numcpus 0.6.0

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1.41 x-time-rate 0.3.0

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1.42 opencensus 0.24.0

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1.45 clientmodel 0.3.0

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1.46 rican7-retry 0.3.1

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1.48 xxhash 2.1.2

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1.49 x-sys 0.8.0

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1.50 genproto-googleapis-api 0.0.0-

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1.51 utils 0.0.0-20230505201702-9f6742963106

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1.52 kingpin 2.3.2

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1.54 x-sys 0.11.0

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1.56 aws-smithy-go 1.14.0

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1.57 yusufpapurcu-wmi 1.2.3

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1.59 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

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1.65 goprotobuf 1.5.3

1.65.1 Available under license :

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1.66 github.com/aws/aws-sdk-go-v2/service/sts 1.21.1

1.66.1 Available under license :

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

```
package grafana
```

```
import (  
    "context"  
    "errors"  
    "fmt"  
    "github.com/aws/aws-sdk-go-v2/aws"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"  
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"  
    smithyendpoints "github.com/aws/smithy-go/endpoints"  
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opDisassociateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }
}

```

```

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "grafana"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
    }
}

```

```

var signingName, signingRegion string
if v4Scheme.SigningName == nil {
    signingName = "grafana"
} else {
    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region: options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,

```

```

    UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
    Endpoint: options.BaseEndpoint,
  },
  "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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.Metadataata

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.Metadataata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opCreateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}
}

```

```

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it

```

```

// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
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"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

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

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

type CheckoutLicenseInput struct {

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

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

    // License entitlements.
    //

```

```

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

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

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

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

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

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

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

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

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

```

```

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
        return err
    }
}

```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

type opCheckoutLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {
        var nfe *internalauth.NoAuthenticationSchemesFoundError
        if errors.As(err, &nfe) {
            // if no auth scheme is found, default to sigv4
            signingName := "license-manager"
            signingRegion := m.BuiltInResolver.(*builtInResolver).Region

```

```

ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
}
}

```

```

    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
}

```

```

if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addEndpointDisableHTTPSMiddleware(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",
}
}

type opGetLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }
}

```

```

}

params := EndpointParameters{ }

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {

```

```

    signingName = "license-manager"
  } else {
    signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
    signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
case *internalauth.AuthenticationSchemeNone:
  break
}
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
    Region:    options.Region,
    UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
    UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
    Endpoint:   options.BaseEndpoint,
  },
})
}

```

```

    },
    }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

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

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

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

type CheckoutBorrowLicenseInput struct {

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

    // Digital signature method. The possible value is JSON Web Signature (JWS)

```

```

// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

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

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

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

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

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

```

```

// Signed token.
SignedToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}
}

```

```

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {

```

```

var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
    // if no auth scheme is found, default to sigv4
    signingName := "license-manager"
    signingRegion := m.BuiltInResolver.(*builtInResolver).Region
    ctx = awsmiddleware.SetSigningName(ctx, signingName)
    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
    return out, metadata, fmt.Errorf(
        "This operation requests signer version(s) %v but the client only supports %v",
        ue.UnsupportedSchemes,
        internalauth.SupportedSchemes,
    )
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
    }
}

```

```

if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {  
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)  
    if err != nil {  
        return err  
    }  
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)  
    if err != nil {  
        return err  
    }  
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {  
        return err  
    }  
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {  
        return err  
    }  
}
```

```

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

```

```

type opListLicensesResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

func (*opListLicensesResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

```

```

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (

```

```

out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(

```

```

    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

```

```

}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}

```

```

}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addEndpointDisableHTTPSMiddleware(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",
}
}

type opDeleteLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }
}

```

```

params := EndpointParameters{ }

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {

```

```

    signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
    signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
case *internalauth.AuthenticationSchemeNone:
  break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
  return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
      Region:    options.Region,
      UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
      UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
      Endpoint:   options.BaseEndpoint,
    },
  }, "ResolveEndpoint", middleware.After)
}

```

```
}
```

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

```
package licensemanager
```

```
import (  
    "context"  
    "errors"  
    "fmt"  
    "github.com/aws/aws-sdk-go-v2/aws"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"  
    smithyendpoints "github.com/aws/smithy-go/endpoints"  
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
}

```

```

if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addEndpointDisableHTTPSMiddleware(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",
    }
}

type opCheckInLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {

```

```

return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string

```

```

if v4Scheme.SigningName == nil {
    signingName = "license-manager"
} else {
    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
    },
})
}

```

```

    Endpoint: options.BaseEndpoint,
  },
  }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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

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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
}

```

```

if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opListReceivedLicensesResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)

```

```

if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
    }
}

```

```

    }
    if v4Scheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, signingName)
    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    break
case *internalauth.AuthenticationSchemeV4A:
    v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
    if v4aScheme.SigningName == nil {
        v4aScheme.SigningName = aws.String("license-manager")
    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
    return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
        EndpointResolver: options.EndpointResolverV2,
        BuiltInResolver: &builtInResolver{
            Region:    options.Region,
            UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
            UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
            Endpoint:  options.BaseEndpoint,
        },
    }, "ResolveEndpoint", middleware.After)
}

```

AWS SDK for Go
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 // Code generated by smithy-go-codegen DO NOT EDIT.

```

package grafana

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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{}
    }

    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

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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opAssociateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(

```

```

k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "grafana"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "grafana"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)

```

```

    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    break
case *internalauth.AuthenticationSchemeV4A:
    v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
    if v4aScheme.SigningName == nil {
        v4aScheme.SigningName = aws.String("grafana")
    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
}

```

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1.67 go-kit-log 0.2.1

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1.68 go-uber-org-multierr 1.11.0

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1.69 go-units 0.5.0

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1.70 prometheus-client 1.14.0

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

<http://github.com/golang/protobuf/>

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Support for streaming Protocol Buffer messages for the Go language (golang).

https://github.com/mattproud/golang_protobuf_extensions

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1.71 github.com/aws/aws-sdk-go-v2/service/ssooidc 1.15.1

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

```
package licensemanager
```

```
import (
```

```
    "context"
```

```
    "errors"
```

```
    "fmt"
```

```
    "github.com/aws/aws-sdk-go-v2/aws"
```

```
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
```

```
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
```

```
    smithyendpoints "github.com/aws/smithy-go/endpoints"
```

```
    "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) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {

```

```

return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),

```

```

middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opCreateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)

```

```

if !ok {
    return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

```

```

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
        ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
        break
    case *internalauth.AuthenticationSchemeNone:
        break
    }
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
    return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{

```

```

EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
  Region:    options.Region,
  UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
  UseFIPS:   options.EndpointOptions.UseFIPSEndpoint,
  Endpoint:  options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
  "context"
  "errors"
  "fmt"
  "github.com/aws/aws-sdk-go-v2/aws"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
  "github.com/aws/aws-sdk-go-v2/service/grafana/types"
  smithyendpoints "github.com/aws/smithy-go/endpoints"
  "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
}

```

```

if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opDisassociateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)

```

```

if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "grafana"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "grafana"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
    }
}

```

```

}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
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"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

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

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

type CheckoutLicenseInput struct {

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

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //

```

```

// This member is required.
ClientToken *string

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

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

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

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

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

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

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

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

// License consumption token.
LicenseConsumptionToken *string

// Node ID.

```

```

NodeId *string

// Signed token.
SignedToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

```

```

type opCheckoutLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {

```

```

var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
    // if no auth scheme is found, default to sigv4
    signingName := "license-manager"
    signingRegion := m.BuiltInResolver.(*builtInResolver).Region
    ctx = awsmiddleware.SetSigningName(ctx, signingName)
    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
    return out, metadata, fmt.Errorf(
        "This operation requests signer version(s) %v but the client only supports %v",
        ue.UnsupportedSchemes,
        internalauth.SupportedSchemes,
    )
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
    }
}

```

```

if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:  options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
}

```

```

}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {

```

```

return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opGetLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {

```

```

return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {

```

```

switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,

```

```

BuiltInResolver: &builtInResolver{
  Region:    options.Region,
  UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
  UseFIPS:   options.EndpointOptions.UseFIPSEndpoint,
  Endpoint:  options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
  "context"
  "errors"
  "fmt"
  "github.com/aws/aws-sdk-go-v2/aws"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  smithyendpoints "github.com/aws/smithy-go/endpoints"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

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

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

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

type CheckoutBorrowLicenseInput struct {

  // Unique, case-sensitive identifier that you provide to ensure the idempotency of
  // the request.

```

```

//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

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

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

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

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

```

```

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),

```

```

)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    }
}

```

```

case *internalauth.AuthenticationSchemeV4A:
    v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
    if v4aScheme.SigningName == nil {
        v4aScheme.SigningName = aws.String("license-manager")
    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
    return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
        EndpointResolver: options.EndpointResolverV2,
        BuiltInResolver: &builtInResolver{
            Region:    options.Region,
            UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
            UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
            Endpoint:  options.BaseEndpoint,
        },
    }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {

```

```

return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

```

```

type opListLicensesResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

```

```

func (*opListLicensesResolveEndpointMiddleware) ID() string {

```

```

return "ResolveEndpointV2"
}

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
}
}

```

```

    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    }
}

```

```

    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
return err
}
}

```

```

if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

type opDeleteLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }
}

```

```

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:

```

```

v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
    signingName = "license-manager"
} else {
    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,

```

```

    UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
    UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
    Endpoint:  options.BaseEndpoint,
  },
}, "ResolveEndpoint", middleware.After)
}

```

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

```

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opCheckInLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)

```

```

if !ok {
    return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

```

```

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
        ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
        break
    case *internalauth.AuthenticationSchemeNone:
        break
    }
}

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
    return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{

```

```

EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
  Region:    options.Region,
  UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
  UseFIPS:   options.EndpointOptions.UseFIPSEndpoint,
  Endpoint:  options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
  "context"
  "errors"
  "fmt"
  "github.com/aws/aws-sdk-go-v2/aws"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  smithyendpoints "github.com/aws/smithy-go/endpoints"
  "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addEndpointDisableHTTPSMiddleware(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",
}
}

type opListReceivedLicensesResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

```

```

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
    }
}

```

```

}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}

```

AWS SDK for Go

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

```
package grafana
```

```
import (  
    "context"  
    "errors"  
    "fmt"  
    "github.com/aws/aws-sdk-go-v2/aws"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"  
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"  
    smithyendpoints "github.com/aws/smithy-go/endpoints"  
    "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{}  
    }  
  
    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

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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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opAssociateLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}
}

```

```

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "grafana"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "grafana"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.

```

```

// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}

```

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1.72 clientmodel 0.4.0

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1.73 rcrowley-go-metrics 0.0.0- 20201227073835-cf1acfcdf475

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1.74 xhit-go-str2duration 2.1.0

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1.75 logr 1.2.4

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/*!

* Bootstrap Table of Contents v0.4.1 (<http://afeld.github.io/bootstrap-toc/>)

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Found in path(s):

* /opt/cola/permits/1640242423_1681521633.1109512/0/dbosak01-logr-v1-2-4-0-g8c5ac86-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.css

* /opt/cola/permits/1640242423_1681521633.1109512/0/dbosak01-logr-v1-2-4-0-g8c5ac86-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.js

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/*

Source: <https://github.com/algolia/docsearch/>

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* /opt/cola/permits/1640242423_1681521633.1109512/0/dbosak01-logr-v1-2-4-0-g8c5ac86-tar-gz/dbosak01-logr-8c5ac86/docs/docsearch.css

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Package: logr

Title: Creates Log Files

Version: 1.2.4

Authors@R:

```
person(given = "David",
       family = "Bosak",
       role = c("aut", "cre"),
       email = "dbosak01@gmail.com")
```

Description: Contains functions to help create log files. The package aims to overcome the difficulty of the base R `sink()` command. The `log_print()` function will print to both the console and the file log, without interfering in other write operations.

License: CC0

Encoding: UTF-8

URL: <https://logr.r-sassy.org>

BugReports: <https://github.com/dbosak01/logr/issues>

Depends: R (>= 3.4.0)

Suggests: knitr,

 rmarkdown,

 testthat,

 tidylog,

 dplyr,

 utils

Imports: withr
VignetteBuilder: knitr
Roxygen: list(markdown = TRUE)
RoxygenNote: 7.1.1

Found in path(s):

* /opt/cola/permits/1640242423_1681521633.1109512/0/dbosak01-logr-v1-2-4-0-g8c5ac86-tar-gz/dbosak01-logr-8c5ac86/DESCRIPTION

1.76 hashicorp-go-envparse 0.1.0

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1.78 golang 1.20.6

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1.79 gopkg.in-ini 1.67.0

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1.80 go-systemd 22.3.3-0.20220203105225- a9a7ef127534

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1.81 aws-sdk-go 1.44.316

1.81.1 Available under license :

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1.82 github.com/aws/aws-sdk-go-v2/feature/ec2/imds 1.13.7

1.82.1 Available under license :

```
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```

```
package grafana
```

```
import (  
    "context"  
    "errors"  
    "fmt"  
    "github.com/aws/aws-sdk-go-v2/aws"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"  
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"  
    smithyendpoints "github.com/aws/smithy-go/endpoints"  
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {

```

```

return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

```

```

type opDisassociateLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

```

```

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

```

```

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}
}

```

```

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}
}

```

```

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "grafana"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:

```

```

v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
    signingName = "grafana"
} else {
    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,

```

```

    UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
    UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
    Endpoint:  options.BaseEndpoint,
  },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opCreateLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}
}

```

```

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.

```

```

// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
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"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

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

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

type CheckoutLicenseInput struct {

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

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

    // License entitlements.

```

```

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

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

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

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

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

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

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

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

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

```

```

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}

```

```

}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addEndpointDisableHTTPSMiddleware(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",
    }
}

type opCheckoutLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {
        var nfe *internalauth.NoAuthenticationSchemesFoundError
        if errors.As(err, &nfe) {
            // if no auth scheme is found, default to sigv4
            signingName := "license-manager"

```

```

signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.

```

```

    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

```

```

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```
// Checks out the specified license for offline use.
```

```

func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
if params == nil {
params = &CheckoutBorrowLicenseInput{}
}
}

```

```

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

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

```

```

type CheckoutBorrowLicenseInput struct {

```

```

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //

```

```

    // This member is required.

```

```

    ClientToken *string

```

```

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
    //

```

```

    // This member is required.

```

```

    DigitalSignatureMethod types.DigitalSignatureMethod

```

```

    // License entitlements. Partial checkouts are not supported.
    //

```

```

    // This member is required.

```

```

    Entitlements []types.EntitlementData

```

```

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //

```

```

    // This member is required.

```

```

    LicenseArn *string

```

```

    // Information about constraints.

```

```

    CheckoutMetadata []types.Metadata

```

```

    // Node ID.

```

```

    NodeId *string

```

```

    noSmithyDocumentSerde
}

```

```

type CheckoutBorrowLicenseOutput struct {

```

```

// Information about constraints.
CheckoutMetadata []types.Metadata

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

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

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

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

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
}

```

```

if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }
}

```

```

params := EndpointParameters{ }

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {

```

```

    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
    v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
    if v4aScheme.SigningName == nil {
        v4aScheme.SigningName = aws.String("license-manager")
    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}

```

```

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

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

```

```

}

type opGetLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)

```

```

if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
    }
}

```

```

    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
    return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
        EndpointResolver: options.EndpointResolverV2,
        BuiltInResolver: &builtInResolver{
            Region:    options.Region,
            UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
            UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
            Endpoint:  options.BaseEndpoint,
        },
    }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}

```

```

}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

```

```

type opListLicensesResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

func (*opListLicensesResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

```

```

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in

```

```

middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {
        var nfe *internalauth.NoAuthenticationSchemesFoundError
        if errors.As(err, &nfe) {
            // if no auth scheme is found, default to sigv4
            signingName := "license-manager"
            signingRegion := m.BuiltInResolver.(*builtInResolver).Region
            ctx = awsmiddleware.SetSigningName(ctx, signingName)
            ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        }
        var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
        if errors.As(err, &ue) {

```

```

return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
        ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
        break
    case *internalauth.AuthenticationSchemeNone:
        break
    }
}

```

```

    }
    }

    return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
    return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
        EndpointResolver: options.EndpointResolverV2,
        BuiltInResolver: &builtInResolver{
            Region:    options.Region,
            UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
            UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
            Endpoint:  options.BaseEndpoint,
        },
    }, "ResolveEndpoint", middleware.After)
}

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

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {

```

```

return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opDeleteLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

```

```

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"

```

```

    } else {
        signingName = *v4Scheme.SigningName
    }
    if v4Scheme.SigningRegion == nil {
        signingRegion = m.BuiltInResolver.(*builtInResolver).Region
    } else {
        signingRegion = *v4Scheme.SigningRegion
    }
    if v4Scheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, signingName)
    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    break
case *internalauth.AuthenticationSchemeV4A:
    v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
    if v4aScheme.SigningName == nil {
        v4aScheme.SigningName = aws.String("license-manager")
    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
},

```

```
}, "ResolveEndpoint", middleware.After)
}
```

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

```
package licensemanager
```

```
import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

type opCheckInLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }
}

```

```

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)

```

```

var signingName, signingRegion string
if v4Scheme.SigningName == nil {
    signingName = "license-manager"
} else {
    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region: options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,

```

```

    UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
    Endpoint: options.BaseEndpoint,
  },
  "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}

```

```

}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opListReceivedLicensesResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint

```

```

resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {

```

```

    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
}
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```

```

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

package grafana

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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{}
    }

    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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opAssociateLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

```

```

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "grafana"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "grafana"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
    }
}

```

```

    }
    ctx = awsmiddleware.SetSigningName(ctx, signingName)
    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    break
case *internalauth.AuthenticationSchemeV4A:
    v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
    if v4aScheme.SigningName == nil {
        v4aScheme.SigningName = aws.String("grafana")
    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}

```

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1.92 golang-protobuf-extensions 1.0.2

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1.93 pierrec-iz4 4.1.17

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1.94 kubernetes-client 0.27.4

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1.95 go-toml 2.0.9

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1.96 go-openapi-jsonpointer 0.19.6

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1.98 protobuf 1.31.0

1.98.1 Available under license :

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1.99 [github.com/aws/aws-sdk-go-](https://github.com/aws/aws-sdk-go-v2/service/sso) [v2/service/sso](https://github.com/aws/aws-sdk-go-v2/service/sso) 1.13.1

1.99.1 Available under license :

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

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addEndpointDisableHTTPSMiddleware(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",
}
}

type opCreateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(

```

```

k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)

```

```

    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    break
case *internalauth.AuthenticationSchemeV4A:
    v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
    if v4aScheme.SigningName == nil {
        v4aScheme.SigningName = aws.String("license-manager")
    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtinResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"

```

```

smithyendpoints "github.com/aws/smithy-go/endpoints"
"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

```

```

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

```

```

}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

```

```

type opDisassociateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {

```

```

return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "grafana"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
}
}

```

```

    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "grafana"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("grafana")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    }
}

```

```

    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
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"
  "errors"
  "fmt"
  "github.com/aws/aws-sdk-go-v2/aws"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  smithyendpoints "github.com/aws/smithy-go/endpoints"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {

```

```

if params == nil {
    params = &CheckoutLicenseInput{}
}

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

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

type CheckoutLicenseInput struct {

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

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

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

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

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

    // License beneficiary.
    Beneficiary *string

    // Node ID.
    NodeId *string
}

```

```

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

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

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

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

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

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

type opCheckoutLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }
}

```

```

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
    }
}

```

```

var signingName, signingRegion string
if v4Scheme.SigningName == nil {
    signingName = "license-manager"
} else {
    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,

```

```

    UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
    Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

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

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

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

type CheckoutBorrowLicenseInput struct {

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

```

```

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

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

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

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

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

// License consumption token.
LicenseConsumptionToken *string

```

```

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

```

```

}
}

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }
}

```

```

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {

```

```

    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:  options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)

```

```

if err != nil {
    return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
}

```

```

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

```

```

type opGetLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

```

```

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }
}

```

```

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
    return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

```

```

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
        ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
        break
    case *internalauth.AuthenticationSchemeNone:
        break
    }
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {

```

```

return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:  options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opListLicensesResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opListLicensesResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

```

```

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {

```

```

    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
    signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
case *internalauth.AuthenticationSchemeNone:
  break
}
}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
    Region:    options.Region,
    UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
    UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
    Endpoint:   options.BaseEndpoint,
  },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```
import (  
    "context"  
    "errors"  
    "fmt"  
    "github.com/aws/aws-sdk-go-v2/aws"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    smithyendpoints "github.com/aws/smithy-go/endpoints"  
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addEndpointDisableHTTPSMiddleware(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",
  }
}

type opDeleteLicenseResolveEndpointMiddleware struct {
  EndpointResolver EndpointResolverV2
  BuiltInResolver  builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
  return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
  out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
  if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
    return next.HandleSerialize(ctx, in)
  }

  req, ok := in.Request.(*smithyhttp.Request)
  if !ok {
    return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
  }

  if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
  }

  params := EndpointParameters{}

  m.BuiltInResolver.ResolveBuiltIns(&params)

  var resolvedEndpoint smithyendpoints.Endpoint
  resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
  if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
  }

  req.URL = &resolvedEndpoint.URI

  for k := range resolvedEndpoint.Headers {
    req.Header.Set(
      k,
      resolvedEndpoint.Headers.Get(k),
    )
  }
}

```

```

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)

```

```

if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}

```

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

```
package licensemanager
```

```
import (  
    "context"  
    "errors"  
    "fmt"  
    "github.com/aws/aws-sdk-go-v2/aws"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"  
    smithyendpoints "github.com/aws/smithy-go/endpoints"  
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opCheckInLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,

```

```

resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
}

```

```

break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"

```

```

"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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

```

```

type opListReceivedLicensesResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
}

```

```

BuiltInResolver builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4

```

```

signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
    signingName = "license-manager"
} else {
    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it

```

```

// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package grafana
```

```

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"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{}
    }

    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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}

```

```

if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

```

```

type opAssociateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

```

```

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in

```

```

middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {
        var nfe *internalauth.NoAuthenticationSchemesFoundError
        if errors.As(err, &nfe) {
            // if no auth scheme is found, default to sigv4
            signingName := "grafana"
            signingRegion := m.BuiltInResolver.(*builtInResolver).Region
            ctx = awsmiddleware.SetSigningName(ctx, signingName)
            ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        }
        var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
        if errors.As(err, &ue) {

```

```

return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "grafana"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("grafana")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
        ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
        break
    case *internalauth.AuthenticationSchemeNone:
        break
    }
}

```

```

    }
    }

    return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
    return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
        EndpointResolver: options.EndpointResolverV2,
        BuiltInResolver: &builtInResolver{
            Region:    options.Region,
            UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
            UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
            Endpoint:  options.BaseEndpoint,
        },
    }, "ResolveEndpoint", middleware.After)
}

```

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Gocheck - A rich testing framework for Go

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1.104 queue 1.1.0

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1.105 nanoframework.system.device.i2c 1.1.9

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1.106 netlink 1.7.2

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1.107 gofuzz 1.2.0

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1.108 github.com/aws/aws-sdk-go-v2/config

1.18.32

1.108.1 Available under license :

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

package grafana

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opDisassociateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(

```

```

k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "grafana"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "grafana"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)

```

```

    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    break
case *internalauth.AuthenticationSchemeV4A:
    v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
    if v4aScheme.SigningName == nil {
        v4aScheme.SigningName = aws.String("grafana")
    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
    return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
        EndpointResolver: options.EndpointResolverV2,
        BuiltInResolver: &builtInResolver{
            Region:    options.Region,
            UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
            UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
            Endpoint:   options.BaseEndpoint,
        },
    }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"

```

```

smithyendpoints "github.com/aws/smithy-go/endpoints"
"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) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```

return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opCreateLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {

```

```

return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
}
}

```

```

    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    }
}

```

```

    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
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"
  "errors"
  "fmt"
  "github.com/aws/aws-sdk-go-v2/aws"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  smithyendpoints "github.com/aws/smithy-go/endpoints"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {

```

```

if params == nil {
    params = &CheckoutLicenseInput{}
}

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

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

type CheckoutLicenseInput struct {

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

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

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

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

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

    // License beneficiary.
    Beneficiary *string

    // Node ID.
    NodeId *string

```

```

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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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

type opCheckoutLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }
}

```

```

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)

```

```

var signingName, signingRegion string
if v4Scheme.SigningName == nil {
    signingName = "license-manager"
} else {
    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region: options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,

```

```

    UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
    Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

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

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

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

type CheckoutBorrowLicenseInput struct {

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

```

```

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

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

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

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

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

// License consumption token.
LicenseConsumptionToken *string

```

```

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

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

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}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

```

```

}
}

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }
}

```

```

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {

```

```

    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)

```

```

if err != nil {
    return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
}

```

```

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

```

```

type opGetLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

```

```

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }
}

```

```

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
    return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

```

```

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
        ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
        break
    case *internalauth.AuthenticationSchemeNone:
        break
    }
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {

```

```

return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opListLicensesResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opListLicensesResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

```

```

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {

```

```

    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
    signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
case *internalauth.AuthenticationSchemeNone:
  break
}
}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
    Region:    options.Region,
    UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
    UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
    Endpoint:   options.BaseEndpoint,
  },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```
import (  
    "context"  
    "errors"  
    "fmt"  
    "github.com/aws/aws-sdk-go-v2/aws"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    smithyendpoints "github.com/aws/smithy-go/endpoints"  
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addEndpointDisableHTTPSMiddleware(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",
  }
}

type opDeleteLicenseResolveEndpointMiddleware struct {
  EndpointResolver EndpointResolverV2
  BuiltInResolver  builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
  return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
  out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
  if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
    return next.HandleSerialize(ctx, in)
  }

  req, ok := in.Request.(*smithyhttp.Request)
  if !ok {
    return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
  }

  if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
  }

  params := EndpointParameters{}

  m.BuiltInResolver.ResolveBuiltIns(&params)

  var resolvedEndpoint smithyendpoints.Endpoint
  resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
  if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
  }

  req.URL = &resolvedEndpoint.URI

  for k := range resolvedEndpoint.Headers {
    req.Header.Set(
      k,
      resolvedEndpoint.Headers.Get(k),
    )
  }
}

```

```

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)

```

```

if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}

```

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

```
package licensemanager
```

```
import (  
    "context"  
    "errors"  
    "fmt"  
    "github.com/aws/aws-sdk-go-v2/aws"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"  
    smithyendpoints "github.com/aws/smithy-go/endpoints"  
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opCheckInLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,

```

```

resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
}

```

```

break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"

```

```

"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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

```

```

type opListReceivedLicensesResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
}

```

```

BuiltInResolver builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4

```

```

signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
    signingName = "license-manager"
} else {
    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it

```

```

// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
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// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package grafana
```

```

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"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{}
    }

    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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}

```

```

if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

```

```

type opAssociateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

```

```

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in

```

```

middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {
        var nfe *internalauth.NoAuthenticationSchemesFoundError
        if errors.As(err, &nfe) {
            // if no auth scheme is found, default to sigv4
            signingName := "grafana"
            signingRegion := m.BuiltInResolver.(*builtInResolver).Region
            ctx = awsmiddleware.SetSigningName(ctx, signingName)
            ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        }
        var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
        if errors.As(err, &ue) {

```

```

return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "grafana"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("grafana")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
        ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
        break
    case *internalauth.AuthenticationSchemeNone:
        break
    }
}

```

```

    }
    }

    return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
    return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
        EndpointResolver: options.EndpointResolverV2,
        BuiltInResolver: &builtInResolver{
            Region:    options.Region,
            UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
            UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
            Endpoint:  options.BaseEndpoint,
        },
    }, "ResolveEndpoint", middleware.After)
}

```

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1.111 x-oauth2 0.10.0

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1.112 golang-protobuf-extensions 1.0.4

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1.113 prometheus-exporter-toolkit 0.10.0

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1.115 prometheus-community-go-runit 0.1.0

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1.117 x-net 0.4.0

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1.118 kubernetes-klog 2.80.1

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1.119 wifi 0.0.0-20220330172155-a44c70b6d3c8

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1.120 jsimonetti-rtnetlink 1.3.2

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1.121 jwalterweatherman 1.1.0

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1.122 kubernetes-api 0.27.3

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1.131 lumberjack 2.2.1

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1.132 goautoneg 0.0.0-20191010083416-a7dc8b61c822

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1.133 mergo 0.3.16

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

```
fields:
```

```
  site: string
```

```
  author: root
```

1.134 go-capability 0.0.0-20200815063812-42c35b437635

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1.135 modern-go-reflect2 1.0.2

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1.136 x-oauth2 0.8.0

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1.137 x-text 0.9.0

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1.138 jpillora-backoff 1.0.0

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1.139 aws-sdk-go 1.35.24

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1.140 gokrb5 8.4.3

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gokrb5

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1.141 genetlink 1.3.1

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1.142 jcmtturner-dnsutils 2.0.0

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1.143 protobuf 1.28.1

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1.144 spew 1.1.1

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1.145 viper 1.16.0

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1.146 cast 1.5.1

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1.147 kube-openapi 0.0.0-20230525220651-2546d827e515

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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\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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1.148 utils 0.0.0-20230726121419-3b25d923346b

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1.149 goprotobuf 1.5.2

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Protocol Buffers for Go with Gadgets

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

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1.150 google-uuid 1.3.0

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1.151 mitchellh-mapstructure 1.5.0

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1.152 gopkg.in-inf 0.9.1

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1.153 go-restful 3.10.2

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1.154 x-sync 0.2.0

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1.155 docker 20.10.21+incompatible

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

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1.158 cyphar-filepath-securejoin 0.2.3

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1.159 go-uber-org-multierr 1.6.0

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1.160 zap 1.25.0

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1.161 kubernetes-apimachinery 0.27.3

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1.162 josharian-native 1.1.0

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1.163 x-oauth2 0.11.0

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1.164 googleapis-enterprise-certificate-proxy

0.2.0

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1.166 x-text 0.5.0

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1.167 gogo-protobuf 1.3.2

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1.170 jcmtturner-gofork 1.7.6

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1.175 grpc-go 1.57.0

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1.176 aws-sdk-go-v2 1.20.0

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```
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```

```
package licensemanager
```

```
import (  
    "context"  
    "errors"  
    "fmt"  
    "github.com/aws/aws-sdk-go-v2/aws"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    smithyendpoints "github.com/aws/smithy-go/endpoints"  
    "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  
}
```

```
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) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
}

```

```

if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opCreateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {

```

```

return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
}
}

```

```

if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"

```

```

"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

```

```

type opDisassociateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {

```

```

var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
    // if no auth scheme is found, default to sigv4
    signingName := "grafana"
    signingRegion := m.BuiltInResolver.(*builtInResolver).Region
    ctx = awsmiddleware.SetSigningName(ctx, signingName)
    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
    return out, metadata, fmt.Errorf(
        "This operation requests signer version(s) %v but the client only supports %v",
        ue.UnsupportedSchemes,
        internalauth.SupportedSchemes,
    )
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "grafana"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("grafana")
        }
    }
}

```

```

if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
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"
  "errors"
  "fmt"
  "github.com/aws/aws-sdk-go-v2/aws"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  smithyendpoints "github.com/aws/smithy-go/endpoints"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"

```

```

)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

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

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

type CheckoutLicenseInput struct {

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

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

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

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

    // Product SKU.
    //
    // This member is required.

```

```

ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

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

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

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

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

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
}

```

```

err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
    return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}

```

```

}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

type opCheckoutLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }
}

```

```

}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
    return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

```

```

}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

```

```

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
    return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
        EndpointResolver: options.EndpointResolverV2,
        BuiltInResolver: &builtInResolver{
            Region:    options.Region,
            UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
            UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
            Endpoint:  options.BaseEndpoint,
        },
    }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```
// Checks out the specified license for offline use.
```

```

func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

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

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

```

```

type CheckoutBorrowLicenseInput struct {

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

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string

    noSmithyDocumentSerde
}

```

```

type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

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

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

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

```

```

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

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson1_1_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson1_1_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

```

```

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
    }
}

```

```

    }
    ctx = awsmiddleware.SetSigningName(ctx, signingName)
    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    break
case *internalauth.AuthenticationSchemeV4A:
    v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
    if v4aScheme.SigningName == nil {
        v4aScheme.SigningName = aws.String("license-manager")
    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
    return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
        EndpointResolver: options.EndpointResolverV2,
        BuiltInResolver: &builtInResolver{
            Region:    options.Region,
            UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
            UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
            Endpoint:   options.BaseEndpoint,
        },
    }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

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

```

```

internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"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) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}

```

```

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

```

```

type opGetLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

```

```

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in

```

```

middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {
        var nfe *internalauth.NoAuthenticationSchemesFoundError
        if errors.As(err, &nfe) {
            // if no auth scheme is found, default to sigv4
            signingName := "license-manager"
            signingRegion := m.BuiltInResolver.(*builtInResolver).Region
            ctx = awsmiddleware.SetSigningName(ctx, signingName)
            ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        }
        var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
        if errors.As(err, &ue) {

```

```

return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
        ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
        break
    case *internalauth.AuthenticationSchemeNone:
        break
    }
}

```

```

    }
    }

    return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
    return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
        EndpointResolver: options.EndpointResolverV2,
        BuiltInResolver: &builtInResolver{
            Region:    options.Region,
            UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
            UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
            Endpoint:  options.BaseEndpoint,
        },
    }, "ResolveEndpoint", middleware.After)
}

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

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
}

```

```

}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {

```

```

    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opListLicensesResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opListLicensesResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

```

```

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)

```

```

var signingName, signingRegion string
if v4Scheme.SigningName == nil {
    signingName = "license-manager"
} else {
    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
    },
})
}

```

```

    UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
    Endpoint: options.BaseEndpoint,
  },
  "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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

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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opDeleteLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

```

```

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.

```

```

    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}

```

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

```
package licensemanager
```

```
import (  
    "context"  
    "errors"  
    "fmt"  
    "github.com/aws/aws-sdk-go-v2/aws"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"  
    smithyendpoints "github.com/aws/smithy-go/endpoints"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)  
  
// Checks in the specified license. Check in a license when it is no longer in use.  
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))  
(*CheckInLicenseOutput, error) {  
    if params == nil {  
        params = &CheckInLicenseInput{ }  
    }  
  
    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,  
c.addOperationCheckInLicenseMiddlewares)  
    if err != nil {  
        return nil, err  
    }  
  
    out := result.(*CheckInLicenseOutput)
```

```

out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary *string

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}

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

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}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opCheckInLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}
}

```

```

}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {

```

```

// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"

```

```

"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"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

    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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

```

```

type opListReceivedLicensesResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

```

```

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }
}

```

```

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
    return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

```

```

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

```

```

params := EndpointParameters{}

```

```

m.BuiltInResolver.ResolveBuiltIns(&params)

```

```

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

```

```

req.URL = &resolvedEndpoint.URI

```

```

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

```

```

}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }

    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:

```

```

v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}

```

AWS SDK for Go
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```

package grafana

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"

```

```

smithyendpoints "github.com/aws/smithy-go/endpoints"
"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{}
    }

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

```

```

}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addEndpointDisableHTTPSMiddleware(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",
}
}

```

```

type opAssociateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

}

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {
        var nfe *internalauth.NoAuthenticationSchemesFoundError
        if errors.As(err, &nfe) {
            // if no auth scheme is found, default to sigv4
            signingName := "grafana"

```

```

signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "grafana"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.

```

```

    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}

```

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1.177 gopkg.in-yaml 3.0.1

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1.178 jcmtturner-aescts 2.0.0

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1.179 go-uuid 1.2.1-0.20181028125025-b2ce2384e17b

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1.180 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

1.181 logrus 1.8.1

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1.182 kubernetes-klog 2.100.1

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1.183 properties 1.8.7

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1.184 eapache-go-xerial-snappy 0.0.0-20180814174437-776d5712da21

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1.185 x-text 0.12.0

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1.186 genproto-googleapis-rpc 0.0.0-20230731193218-e0aa005b6bdf

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1.187 mergo 0.3.15

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

fields:

site: string

author: root

1.188 abbot-go-http-auth 0.4.0

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1.189 hashicorp-uuid 1.0.3

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1.191 mdlayher-socket 0.4.1

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1.193 x-exp 0.0.0-20230522175609-2e198f4a06a1

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1.194 go-multierror 1.1.1

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1.195 json-iterator-go 1.1.12

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1.196 golang-snappy 0.0.4

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1.197 sqlite 3.23.2

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1.198 google-go-cmp 0.5.9

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1.199 grpc-go 1.51.0

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1.200 godbus 5.1.0

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1.202 github.com/checkpoint-restore/go-criu/v5 5.3.0

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1.208 go-compute-metadata 0.2.2

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

    // TODO: Use client.
    _ = c
}

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

```

```

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

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

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

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

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

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.

```

```

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

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

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

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

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

```

```

}

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

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

```

```

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

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
    }
}

```

```

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

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

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

```

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package compute

import (

"bytes"

"context"

"fmt"

"io/ioutil"

"net/http"

"net/url"

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

"google.golang.org/api/googleapi"

"google.golang.org/api/option"

"google.golang.org/api/option/internaloption"

httptransport "google.golang.org/api/transport/http"

computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"

"google.golang.org/grpc"

"google.golang.org/grpc/metadata"

```

"google.golang.org/protobuf/encoding/protojson"
)

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get          []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
    return &LicenseCodesCallOptions{
        Get:          []gax.CallOption{ },
        TestIamPermissions: []gax.CallOption{ },
    }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse, error)
}

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

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

// Wrapper methods routed to the internal client.

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

```

```

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

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

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

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

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

    // The http client.
    httpClient *http.Client

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

    // Points back to the CallOptions field of the containing LicenseCodesClient
    CallOptions **LicenseCodesCallOptions
}

```

```

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

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

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

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

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

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

// Connection returns a connection to the API service.

```

```

//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
    ...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
    req.GetLicenseCode())

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

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

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

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

        buf, err := ioutil.ReadAll(httpRsp.Body)

```

```

if err != nil {
    return err
}

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

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

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

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

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

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

```

```

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

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

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

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

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

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

```
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```

```
package compute
```

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

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

```
var newLicensesClientHook clientHook
```

```
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
```

```
type LicensesCallOptions struct {  
    Delete      []gax.CallOption  
    Get         []gax.CallOption  
    GetIamPolicy []gax.CallOption  
    Insert      []gax.CallOption  
    List        []gax.CallOption  
    SetIamPolicy []gax.CallOption  
    TestIamPermissions []gax.CallOption  
}
```

```
func defaultLicensesRESTCallOptions() *LicensesCallOptions {  
    return &LicensesCallOptions{  
        Delete:      []gax.CallOption{ },  
        Get:          []gax.CallOption{ },  
        GetIamPolicy: []gax.CallOption{ },  
        Insert:       []gax.CallOption{ },  
        List:         []gax.CallOption{ },  
        SetIamPolicy: []gax.CallOption{ },  
        TestIamPermissions: []gax.CallOption{ },  
    }
```

```

}
}

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

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

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

// Wrapper methods routed to the internal client.

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

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

```

```

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

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

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

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

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

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

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

```

```

func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

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

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

    // The http client.
    httpClient *http.Client

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

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

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

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

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,
    }

```

```

c.setGoogleClientInfo()

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

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

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

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

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

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

```

```

return nil
}

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

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

    baseUrl.RawQuery = params.Encode()

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

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

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

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

```

```

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

```

```

baseUrl.RawQuery = params.Encode()

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

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

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

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

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

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

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

```

```

return resp, nil
}

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

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

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

    baseUrl.RawQuery = params.Encode()

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

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

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

```

```

    return err
}
defer httpRsp.Body.Close()

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

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

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

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

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unmarshalOptions := unmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {

```

```

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

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

baseUrl.RawQuery = params.Encode()

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

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

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

```

```

    return err
}

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

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

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

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

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

return it
}

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

```

```

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

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

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

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

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

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

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

    return nil
}

```

```

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

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

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

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

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

        httpRsp, err := c.httpClient.Do(httpReq)

```

```

if err != nil {
    return err
}
defer httpRsp.Body.Close()

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

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

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

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

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

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

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

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

```

```

return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*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_test

import (
    "context"

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

```

```

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

    // TODO: Use client.
    _ = c
}

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

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

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

```

```

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

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

```

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1.209 beevik-ntp 0.3.0

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1.210 x-sys 0.10.0

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1.211 containerd-ttrpc 1.1.0

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1.212 curl 8.0.1

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1.214 opencontainers-image-spec 1.0.2

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1.215 x-sys 0.3.0

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1.216 xxhash 2.2.0

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1.217 go-logr-zapr 1.2.4

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1.218 gopsutil 3.21.11+incompatible

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1.219 grpc-gateway 2.16.2

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1.220 spf13-pflag 1.0.5

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1.221 x-crypto 0.8.0

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1.222 structured-merge-diff 4.3.0

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1.223 hodgesds-perf-utils 0.7.0

1.223.1 Available under license :

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1.224 github.com/aws/aws-sdk-go-v2/credentials 1.13.31

1.224.1 Available under license :

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

```
package licensemanager
```

```
import (  
    "context"  
    "errors"  
    "fmt"  
    "github.com/aws/aws-sdk-go-v2/aws"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    smithyendpoints "github.com/aws/smithy-go/endpoints"  
    "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) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
return err
}
}

```

```

if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

type opCreateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }
}

```

```

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:

```

```

v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
    signingName = "license-manager"
} else {
    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,

```

```

    UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
    UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
    Endpoint:  options.BaseEndpoint,
  },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opDisassociateLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}
}

```

```

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "grafana"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "grafana"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.

```

```

// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
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"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

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

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

type CheckoutLicenseInput struct {

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

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

    // License entitlements.

```

```

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

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

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

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

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

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

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

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

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

```

```

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}

```

```

}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addEndpointDisableHTTPSMiddleware(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",
    }
}

type opCheckoutLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {
        var nfe *internalauth.NoAuthenticationSchemesFoundError
        if errors.As(err, &nfe) {
            // if no auth scheme is found, default to sigv4
            signingName := "license-manager"

```

```

signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.

```

```

    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"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) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

type opGetLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {

```

```

return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string

```

```

if v4Scheme.SigningName == nil {
    signingName = "license-manager"
} else {
    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
    },
})
}

```

```

    Endpoint: options.BaseEndpoint,
  },
  "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```
// Checks out the specified license for offline use.
```

```

func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{}
    }

```

```

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

```

```

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

```

```
type CheckoutBorrowLicenseInput struct {
```

```

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

```

```

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

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

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

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

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

// License consumption token.
LicenseConsumptionToken *string

// Node ID.

```

```

NodeId *string

// Signed token.
SignedToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

```

```

}

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)

```

```

if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
    }
}

```

```

    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}

```

```

}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

```

```

type opListLicensesResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

func (*opListLicensesResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

```

```

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in

```

```

middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {
        var nfe *internalauth.NoAuthenticationSchemesFoundError
        if errors.As(err, &nfe) {
            // if no auth scheme is found, default to sigv4
            signingName := "license-manager"
            signingRegion := m.BuiltInResolver.(*builtInResolver).Region
            ctx = awsmiddleware.SetSigningName(ctx, signingName)
            ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        }
        var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
        if errors.As(err, &ue) {

```

```

return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
        ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
        break
    case *internalauth.AuthenticationSchemeNone:
        break
    }
}

```

```

    }
    }

    return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
    return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
        EndpointResolver: options.EndpointResolverV2,
        BuiltInResolver: &builtInResolver{
            Region:    options.Region,
            UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
            UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
            Endpoint:  options.BaseEndpoint,
        },
    }, "ResolveEndpoint", middleware.After)
}

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

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {

```

```

return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opDeleteLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

```

```

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"

```

```

    } else {
        signingName = *v4Scheme.SigningName
    }
    if v4Scheme.SigningRegion == nil {
        signingRegion = m.BuiltInResolver.(*builtInResolver).Region
    } else {
        signingRegion = *v4Scheme.SigningRegion
    }
    if v4Scheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, signingName)
    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    break
case *internalauth.AuthenticationSchemeV4A:
    v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
    if v4aScheme.SigningName == nil {
        v4aScheme.SigningName = aws.String("license-manager")
    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
},

```

```
}, "ResolveEndpoint", middleware.After)
}
```

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

```
package licensemanager
```

```
import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

type opCheckInLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }
}

```

```

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)

```

```

var signingName, signingRegion string
if v4Scheme.SigningName == nil {
    signingName = "license-manager"
} else {
    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,

```

```

    UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
    Endpoint: options.BaseEndpoint,
  },
  "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}

```

```

}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opListReceivedLicensesResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint

```

```

resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {

```

```

    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
}
AWS SDK for Go
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```

```

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

package grafana

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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{}
    }

    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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opAssociateLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

```

```

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "grafana"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "grafana"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
    }
}

```

```

    }
    ctx = awsmiddleware.SetSigningName(ctx, signingName)
    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    break
case *internalauth.AuthenticationSchemeV4A:
    v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
    if v4aScheme.SigningName == nil {
        v4aScheme.SigningName = aws.String("grafana")
    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}

```

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1.225 genproto-googleapis-rpc 0.0.0-20230803162519-f966b187b2e5

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1.226 github.com/aws/aws-sdk-go-v2/internal/configsources 1.1.37

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```
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```

```
package licensemanager
```

```
import (  
    "context"  
    "errors"  
    "fmt"  
    "github.com/aws/aws-sdk-go-v2/aws"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    smithyendpoints "github.com/aws/smithy-go/endpoints"  
    "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) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)

```

```

if err != nil {
    return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opCreateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}
}

```

```

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
    return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

```

```

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
        ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
        break
    case *internalauth.AuthenticationSchemeNone:
        break
    }
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {

```

```

return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}

```

```

}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opDisassociateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint

```

```

resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "grafana"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "grafana"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {

```

```

    signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("grafana")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
case *internalauth.AuthenticationSchemeNone:
  break
}
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
  return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
      Region:    options.Region,
      UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
      UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
      Endpoint:   options.BaseEndpoint,
    },
  }, "ResolveEndpoint", middleware.After)
}
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"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

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

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

type CheckoutLicenseInput struct {

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

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //

```

```

// This member is required.
ClientToken *string

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

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

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

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

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

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

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

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

// License consumption token.
LicenseConsumptionToken *string

// Node ID.

```

```

NodeId *string

// Signed token.
SignedToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addEndpointDisableHTTPSMiddleware(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",
    }
}

```

```

type opCheckoutLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {

```

```

var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
    // if no auth scheme is found, default to sigv4
    signingName := "license-manager"
    signingRegion := m.BuiltInResolver.(*builtInResolver).Region
    ctx = awsmiddleware.SetSigningName(ctx, signingName)
    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
    return out, metadata, fmt.Errorf(
        "This operation requests signer version(s) %v but the client only supports %v",
        ue.UnsupportedSchemes,
        internalauth.SupportedSchemes,
    )
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
    }
}

```

```

if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
}

```

```

}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {

```

```

return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opGetLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {

```

```

return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {

```

```

switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,

```

```

BuiltInResolver: &builtInResolver{
  Region:    options.Region,
  UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
  UseFIPS:   options.EndpointOptions.UseFIPSEndpoint,
  Endpoint:  options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
  "context"
  "errors"
  "fmt"
  "github.com/aws/aws-sdk-go-v2/aws"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  smithyendpoints "github.com/aws/smithy-go/endpoints"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

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

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

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

type CheckoutBorrowLicenseInput struct {

  // Unique, case-sensitive identifier that you provide to ensure the idempotency of
  // the request.

```

```

//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

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

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

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

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

```

```

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),

```

```

)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    }
}

```

```

case *internalauth.AuthenticationSchemeV4A:
    v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
    if v4aScheme.SigningName == nil {
        v4aScheme.SigningName = aws.String("license-manager")
    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
```

```

return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

```

```

type opListLicensesResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

```

```

func (*opListLicensesResolveEndpointMiddleware) ID() string {

```

```

return "ResolveEndpointV2"
}

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
}
}

```

```

    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    }
}

```

```

    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
return err
}
}

```

```

if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

type opDeleteLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }
}

```

```

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:

```

```

v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
    signingName = "license-manager"
} else {
    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,

```

```

    UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
    UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
    Endpoint:  options.BaseEndpoint,
  },
}, "ResolveEndpoint", middleware.After)
}

```

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

```
package licensemanager
```

```

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {

```

```

    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

type opCheckInLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)

```

```

if !ok {
    return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

```

```

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
        ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
        break
    case *internalauth.AuthenticationSchemeNone:
        break
    }
}

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
    return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{

```

```

EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
  Region:    options.Region,
  UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
  UseFIPS:   options.EndpointOptions.UseFIPSEndpoint,
  Endpoint:  options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
  "context"
  "errors"
  "fmt"
  "github.com/aws/aws-sdk-go-v2/aws"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  smithyendpoints "github.com/aws/smithy-go/endpoints"
  "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```

```

    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addEndpointDisableHTTPSMiddleware(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",
}
}

type opListReceivedLicensesResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

```

```

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
    }
}

```

```

}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}

```

AWS SDK for Go

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

```
package grafana
```

```
import (  
    "context"  
    "errors"  
    "fmt"  
    "github.com/aws/aws-sdk-go-v2/aws"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"  
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"  
    smithyendpoints "github.com/aws/smithy-go/endpoints"  
    "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{}  
    }  
  
    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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opAssociateLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}
}

```

```

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "grafana"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "grafana"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.

```

```

// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}

```

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1.227 go-resiliency 1.3.0

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1.228 x-net 0.14.0

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1.229 x-crypto 0.1.0

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1.230 kube-openapi 0.0.0-20230515203736-54b630e78af5

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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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1.231 x-oauth2 0.11.0

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1.232 github.com/aws/aws-sdk-go-v2/service/internal/presigned-url 1.9.31

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```
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```
package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
```

```

awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"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) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opCreateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
}

```

```

BuiltInResolver builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4

```

```

signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
    signingName = "license-manager"
} else {
    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it

```

```

// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

```

```

type opDisassociateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

```

```

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }
}

```

```

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
    return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "grafana"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

```

```

}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "grafana"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("grafana")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
        ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
        break
    case *internalauth.AuthenticationSchemeNone:
        break
    }
}

return next.HandleSerialize(ctx, in)
}

```

```

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
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"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
if params == nil {
params = &CheckoutLicenseInput{}
}

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

```

```

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

type CheckoutLicenseInput struct {

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

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

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

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

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

    // License beneficiary.
    Beneficiary *string

    // Node ID.
    NodeId *string

    noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

    // Checkout type.
    CheckoutType types.CheckoutType

    // Allowed license entitlements.

```

```

EntitlementsAllowed []types.EntitlementData

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

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

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

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
}

```

```

if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opCheckoutLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)

```

```

if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
    }
}

```

```

    }
    if v4Scheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, signingName)
    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    break
case *internalauth.AuthenticationSchemeV4A:
    v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
    if v4aScheme.SigningName == nil {
        v4aScheme.SigningName = aws.String("license-manager")
    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
    return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
        EndpointResolver: options.EndpointResolverV2,
        BuiltInResolver: &builtInResolver{
            Region:    options.Region,
            UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
            UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
            Endpoint:   options.BaseEndpoint,
        },
    }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (

```

```

"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

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

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

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

type CheckoutBorrowLicenseInput struct {

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

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //

```

```

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

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

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

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

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

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

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

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

noSmithyDocumentSerde

```

```

}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}

```

```

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addEndpointDisableHTTPSMiddleware(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",
}
}

```

```

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

```

```

}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
}
}

```

```

}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
}
}
}

```

```

    break
    case *internalauth.AuthenticationSchemeNone:
    break
    }
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
    }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
}

```

```

if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

type opGetLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opGetLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

```

```

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
    }
}

```

```

}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}

```

```

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

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opListLicensesResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opListLicensesResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {

```

```

req.Header.Set(
    k,
    resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
    }
}

```

```

    ctx = awsmiddleware.SetSigningName(ctx, signingName)
    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"

```

```

"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```

return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addEndpointDisableHTTPSMiddleware(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",
}
}

type opDeleteLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {

```

```

return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
}
}

```

```

    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    }
}

```

```

    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}

```

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

```
package licensemanager
```

```
import (  
    "context"  
    "errors"  
    "fmt"  
    "github.com/aws/aws-sdk-go-v2/aws"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"  
    smithyendpoints "github.com/aws/smithy-go/endpoints"  
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
        return err
    }
}

```

```

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

type opCheckInLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

}

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {
        var nfe *internalauth.NoAuthenticationSchemesFoundError
        if errors.As(err, &nfe) {
            // if no auth scheme is found, default to sigv4
            signingName := "license-manager"

```

```

signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.

```

```

    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}

```

```

}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

```

```

type opListReceivedLicensesResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

```

```

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,

```

```

) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {
        var nfe *internalauth.NoAuthenticationSchemesFoundError
        if errors.As(err, &nfe) {
            // if no auth scheme is found, default to sigv4
            signingName := "license-manager"
            signingRegion := m.BuiltInResolver.(*builtInResolver).Region
            ctx = awsmiddleware.SetSigningName(ctx, signingName)
            ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        }
        var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
        if errors.As(err, &ue) {
            return out, metadata, fmt.Errorf(
                "This operation requests signer version(s) %v but the client only supports %v",
            )
        }
    }
}

```

```

    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
        ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
        break
    case *internalauth.AuthenticationSchemeNone:
        break
    }
}
}

```

```

return next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}

```

AWS SDK for Go

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

```
package grafana
```

```

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"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{}
}

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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
return err
}
}

```

```

if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

```

```

type opAssociateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

```

```

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }
}

```

```

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
    return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

```

```

}

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "grafana"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {

```

```

case *internalauth.AuthenticationSchemeV4:
    v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
    var signingName, signingRegion string
    if v4Scheme.SigningName == nil {
        signingName = "grafana"
    } else {
        signingName = *v4Scheme.SigningName
    }
    if v4Scheme.SigningRegion == nil {
        signingRegion = m.BuiltInResolver.(*builtInResolver).Region
    } else {
        signingRegion = *v4Scheme.SigningRegion
    }
    if v4Scheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, signingName)
    ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    break
case *internalauth.AuthenticationSchemeV4A:
    v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
    if v4aScheme.SigningName == nil {
        v4aScheme.SigningName = aws.String("grafana")
    }
    if v4aScheme.DisableDoubleEncoding != nil {
        // The signer sets an equivalent value at client initialization time.
        // Setting this context value will cause the signer to extract it
        // and override the value set at client initialization time.
        ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{

```

```
Region:    options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS:   options.EndpointOptions.UseFIPSEndpoint,
Endpoint:  options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
```

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1.233 olivere-elastic 2.0.61

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to the Elastic repository.

#

It is just my small "thank you" to all those that helped

making Elastic what it is.

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1.234 github.com/aws/aws-sdk-go-v2/internal/ini 1.3.38

1.234.1 Available under license :

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

```
package licensemanager
```

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

```

internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"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) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}

```

```

}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addEndpointDisableHTTPSMiddleware(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",
}
}

type opCreateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {
        var nfe *internalauth.NoAuthenticationSchemesFoundError
        if errors.As(err, &nfe) {
            // if no auth scheme is found, default to sigv4
            signingName := "license-manager"
            signingRegion := m.BuiltInResolver.(*builtInResolver).Region

```

```

ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
}
}

```

```

    }
    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opDisassociateLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)

```

```

if !ok {
    return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "grafana"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

```

```

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "grafana"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("grafana")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
        ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
        break
    case *internalauth.AuthenticationSchemeNone:
        break
    }
}

return next.HandleSerialize(ctx, in)
}

func addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
    return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{

```

```

EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
  Region:    options.Region,
  UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
  UseFIPS:   options.EndpointOptions.UseFIPSEndpoint,
  Endpoint:  options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
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"
  "errors"
  "fmt"
  "github.com/aws/aws-sdk-go-v2/aws"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  smithyendpoints "github.com/aws/smithy-go/endpoints"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
  if params == nil {
    params = &CheckoutLicenseInput{}
  }

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

  out := result.(*CheckoutLicenseOutput)
  out.ResultMetadata = metadata

```

```

return out, nil
}

type CheckoutLicenseInput struct {

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

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

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

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

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

    // License beneficiary.
    Beneficiary *string

    // Node ID.
    NodeId *string

    noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

    // Checkout type.
    CheckoutType types.CheckoutType

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

```

```

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

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

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

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

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

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opCheckoutLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}
}

```

```

}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {

```

```

// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"

```

```

"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"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) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```

return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

```

```

type opGetLicenseResolveEndpointMiddleware struct {
EndpointResolver EndpointResolverV2
BuiltInResolver  builtInParameterResolver
}

```

```

func (*opGetLicenseResolveEndpointMiddleware) ID() string {

```

```

return "ResolveEndpointV2"
}

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
}
}

```

```

    }
    var ue *internalauth.UnsupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {
            signingRegion = m.BuiltInResolver.(*builtInResolver).Region
        } else {
            signingRegion = *v4Scheme.SigningRegion
        }
        if v4Scheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        break
    case *internalauth.AuthenticationSchemeV4A:
        v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
        if v4aScheme.SigningName == nil {
            v4aScheme.SigningName = aws.String("license-manager")
        }
        if v4aScheme.DisableDoubleEncoding != nil {
            // The signer sets an equivalent value at client initialization time.
            // Setting this context value will cause the signer to extract it
            // and override the value set at client initialization time.
            ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
        }
        ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    }
}

```

```

    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

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

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)

```

```

if err != nil {
    return nil, err
}

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

type CheckoutBorrowLicenseInput struct {

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

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string

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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) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
}

```

```

if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

```

```

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "license-manager"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
        var signingName, signingRegion string
        if v4Scheme.SigningName == nil {
            signingName = "license-manager"
        } else {
            signingName = *v4Scheme.SigningName
        }
        if v4Scheme.SigningRegion == nil {

```

```

    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
    signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
  v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
  // The signer sets an equivalent value at client initialization time.
  // Setting this context value will cause the signer to extract it
  // and override the value set at client initialization time.
  ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
  break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
    Region:    options.Region,
    UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
    UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
    Endpoint:   options.BaseEndpoint,
  },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```
import (  
    "context"  
    "errors"  
    "fmt"  
    "github.com/aws/aws-sdk-go-v2/aws"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    smithyendpoints "github.com/aws/smithy-go/endpoints"  
    "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) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opListLicensesResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opListLicensesResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,

```

```

resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
}

```

```

break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"

```

```

"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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {  
        return err  
    }  
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {  
        return err  
    }  
}
```

```

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addEndpointDisableHTTPSMiddleware(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",
}
}

type opDeleteLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
return "ResolveEndpointV2"
}

```

```

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {
        var nfe *internalauth.NoAuthenticationSchemesFoundError
        if errors.As(err, &nfe) {
            // if no auth scheme is found, default to sigv4
            signingName := "license-manager"
            signingRegion := m.BuiltInResolver.(*builtInResolver).Region
            ctx = awsmiddleware.SetSigningName(ctx, signingName)
            ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
        }
    }
}

```

```

var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
    signingName = "license-manager"
} else {
    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
}
}

```

```

case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:   options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
}

```

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

package licensemanager

```
import (  
    "context"  
    "errors"  
    "fmt"  
    "github.com/aws/aws-sdk-go-v2/aws"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"  
    smithyendpoints "github.com/aws/smithy-go/endpoints"  
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```

    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
    }
}

type opCheckInLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

```

```

func (*opCheckInLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }

    if m.EndpointResolver == nil {
        return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
    }

    params := EndpointParameters{}

    m.BuiltInResolver.ResolveBuiltIns(&params)

    var resolvedEndpoint smithyendpoints.Endpoint
    resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
    if err != nil {
        return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
    }

    req.URL = &resolvedEndpoint.URI

    for k := range resolvedEndpoint.Headers {
        req.Header.Set(
            k,
            resolvedEndpoint.Headers.Get(k),
        )
    }

    authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
    if err != nil {
        var nfe *internalauth.NoAuthenticationSchemesFoundError
        if errors.As(err, &nfe) {
            // if no auth scheme is found, default to sigv4
            signingName := "license-manager"
            signingRegion := m.BuiltInResolver.(*builtInResolver).Region
            ctx = awsmiddleware.SetSigningName(ctx, signingName)
        }
    }
}

```

```

ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
    "This operation requests signer version(s) %v but the client only supports %v",
    ue.UnsupportedSchemes,
    internalauth.SupportedSchemes,
)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
}
}

```

```

    ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
    ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
    break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
        UseFIPS:    options.EndpointOptions.UseFIPSEndpoint,
        Endpoint:  options.BaseEndpoint,
    },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    "errors"
    "fmt"
    "github.com/aws/aws-sdk-go-v2/aws"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    smithyendpoints "github.com/aws/smithy-go/endpoints"
    "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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {

```

```

    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opListReceivedLicensesResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {

```

```

return next.HandleSerialize(ctx, in)
}

req, ok := in.Request.(*smithyhttp.Request)
if !ok {
return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
}

if m.EndpointResolver == nil {
return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
req.Header.Set(
k,
resolvedEndpoint.Headers.Get(k),
)
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
var nfe *internalauth.NoAuthenticationSchemesFoundError
if errors.As(err, &nfe) {
// if no auth scheme is found, default to sigv4
signingName := "license-manager"
signingRegion := m.BuiltInResolver.(*builtInResolver).Region
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
}
var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
if errors.As(err, &ue) {
return out, metadata, fmt.Errorf(
"This operation requests signer version(s) %v but the client only supports %v",
ue.UnsupportedSchemes,
internalauth.SupportedSchemes,
)
}
}

```

```

)
}
}

for _, authScheme := range authSchemes {
switch authScheme.(type) {
case *internalauth.AuthenticationSchemeV4:
v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
var signingName, signingRegion string
if v4Scheme.SigningName == nil {
signingName = "license-manager"
} else {
signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
v4aScheme.SigningName = aws.String("license-manager")
}
if v4aScheme.DisableDoubleEncoding != nil {
// The signer sets an equivalent value at client initialization time.
// Setting this context value will cause the signer to extract it
// and override the value set at client initialization time.
ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
break
}
}

return next.HandleSerialize(ctx, in)

```

```

}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
EndpointResolver: options.EndpointResolverV2,
BuiltInResolver: &builtInResolver{
Region: options.Region,
UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}

```

AWS SDK for Go

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

```
package grafana
```

```

import (
"context"
"errors"
"fmt"
"github.com/aws/aws-sdk-go-v2/aws"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
smithyendpoints "github.com/aws/smithy-go/endpoints"
"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{}
}

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 = addLegacyEndpointContextSetter(stack, options); 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, options); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
    return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
if err = addendpointDisableHTTPSMiddleware(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",
}
}

type opAssociateLicenseResolveEndpointMiddleware struct {
    EndpointResolver EndpointResolverV2
    BuiltInResolver  builtInParameterResolver
}

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
    return "ResolveEndpointV2"
}

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
    out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
    if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
        return next.HandleSerialize(ctx, in)
    }

    req, ok := in.Request.(*smithyhttp.Request)
    if !ok {
        return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
    }
}

```

```

if m.EndpointResolver == nil {
    return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
    return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
    req.Header.Set(
        k,
        resolvedEndpoint.Headers.Get(k),
    )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
    var nfe *internalauth.NoAuthenticationSchemesFoundError
    if errors.As(err, &nfe) {
        // if no auth scheme is found, default to sigv4
        signingName := "grafana"
        signingRegion := m.BuiltInResolver.(*builtInResolver).Region
        ctx = awsmiddleware.SetSigningName(ctx, signingName)
        ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
    }
    var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
    if errors.As(err, &ue) {
        return out, metadata, fmt.Errorf(
            "This operation requests signer version(s) %v but the client only supports %v",
            ue.UnsupportedSchemes,
            internalauth.SupportedSchemes,
        )
    }
}

for _, authScheme := range authSchemes {
    switch authScheme.(type) {
    case *internalauth.AuthenticationSchemeV4:
        v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)

```

```

var signingName, signingRegion string
if v4Scheme.SigningName == nil {
    signingName = "grafana"
} else {
    signingName = *v4Scheme.SigningName
}
if v4Scheme.SigningRegion == nil {
    signingRegion = m.BuiltInResolver.(*builtInResolver).Region
} else {
    signingRegion = *v4Scheme.SigningRegion
}
if v4Scheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, signingName)
ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
break
case *internalauth.AuthenticationSchemeV4A:
v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
if v4aScheme.SigningName == nil {
    v4aScheme.SigningName = aws.String("grafana")
}
if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
}
ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
break
case *internalauth.AuthenticationSchemeNone:
    break
}
}

return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
    EndpointResolver: options.EndpointResolverV2,
    BuiltInResolver: &builtInResolver{
        Region:    options.Region,
        UseDualStack: options.EndpointOptions.UseDualStackEndpoint,

```

```
UseFIPS: options.EndpointOptions.UseFIPSEndpoint,
Endpoint: options.BaseEndpoint,
},
}, "ResolveEndpoint", middleware.After)
}
```

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