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# AWS License Manager

## API Reference

**API Version 2018-08-01**



## **AWS License Manager: API Reference**

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# Welcome

AWS License Manager makes it easier to manage licenses from software vendors across multiple AWS accounts and on-premises servers.

This document was last published on October 6, 2021.

# Actions

The following actions are supported:

- [AcceptGrant](#) (p. 4)
- [CheckInLicense](#) (p. 7)
- [CheckoutBorrowLicense](#) (p. 9)
- [CheckoutLicense](#) (p. 14)
- [CreateGrant](#) (p. 19)
- [CreateGrantVersion](#) (p. 23)
- [CreateLicense](#) (p. 27)
- [CreateLicenseConfiguration](#) (p. 32)
- [CreateLicenseConversionTaskForResource](#) (p. 36)
- [CreateLicenseManagerReportGenerator](#) (p. 39)
- [CreateLicenseVersion](#) (p. 43)
- [CreateToken](#) (p. 48)
- [DeleteGrant](#) (p. 52)
- [DeleteLicense](#) (p. 55)
- [DeleteLicenseConfiguration](#) (p. 58)
- [DeleteLicenseManagerReportGenerator](#) (p. 60)
- [DeleteToken](#) (p. 62)
- [ExtendLicenseConsumption](#) (p. 64)
- [GetAccessToken](#) (p. 67)
- [GetGrant](#) (p. 69)
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- [GetServiceSettings](#) (p. 87)
- [ListAssociationsForLicenseConfiguration](#) (p. 89)
- [ListDistributedGrants](#) (p. 92)
- [ListFailuresForLicenseConfigurationOperations](#) (p. 95)
- [ListLicenseConfigurations](#) (p. 98)
- [ListLicenseConversionTasks](#) (p. 102)
- [ListLicenseManagerReportGenerators](#) (p. 105)
- [ListLicenses](#) (p. 108)
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- [ListResourceInventory](#) (p. 125)
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- [ListTokens](#) (p. 130)

- [ListUsageForLicenseConfiguration](#) (p. 133)
- [RejectGrant](#) (p. 136)
- [TagResource](#) (p. 139)
- [UntagResource](#) (p. 141)
- [UpdateLicenseConfiguration](#) (p. 143)
- [UpdateLicenseManagerReportGenerator](#) (p. 146)
- [UpdateLicenseSpecificationsForResource](#) (p. 149)
- [UpdateServiceSettings](#) (p. 152)

# AcceptGrant

Accepts the specified grant.

## Request Syntax

```
{  
  "GrantArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### GrantArn (p. 4)

Amazon Resource Name (ARN) of the grant.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_.-/+,@.-]{0,1023}$`

Required: Yes

## Response Syntax

```
{  
  "GrantArn": "string",  
  "Status": "string",  
  "Version": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### GrantArn (p. 4)

Grant ARN.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+,@.-]{0,1023}$`

#### Status (p. 4)

Grant status.

Type: String

Valid Values: PENDING\_WORKFLOW | PENDING\_ACCEPT | REJECTED | ACTIVE | FAILED\_WORKFLOW | DELETED | PENDING\_DELETE | DISABLED | WORKFLOW\_COMPLETED

#### Version (p. 4)

Grant version.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

#### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

#### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

#### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

#### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

#### **ResourceLimitExceededException**

Your resource limits have been exceeded.

HTTP Status Code: 400

#### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

#### **ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# CheckInLicense

Checks in the specified license. Check in a license when it is no longer in use.

## Request Syntax

```
{  
  "Beneficiary": "string",  
  "LicenseConsumptionToken": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 209\)](#).

The request accepts the following data in JSON format.

### Beneficiary (p. 7)

License beneficiary.

Type: String

Required: No

### LicenseConsumptionToken (p. 7)

License consumption token.

Type: String

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

### AccessDeniedException

Access to resource denied.

HTTP Status Code: 400

### AuthorizationException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### ConflictException

There was a conflict processing the request. Try your request again.

HTTP Status Code: 400

**InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

**RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

**ResourceNotFoundException**

The resource cannot be found.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

**ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CheckoutBorrowLicense

Checks out the specified license for offline use.

## Request Syntax

```
{
  "CheckoutMetadata": [
    {
      "Name": "string",
      "Value": "string"
    }
  ],
  "ClientToken": "string",
  "DigitalSignatureMethod": "string",
  "Entitlements": [
    {
      "Name": "string",
      "Unit": "string",
      "Value": "string"
    }
  ],
  "LicenseArn": "string",
  "NodeId": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### CheckoutMetadata (p. 9)

Information about constraints.

Type: Array of [Metadata](#) (p. 192) objects

Required: No

### ClientToken (p. 9)

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

Type: String

Length Constraints: Maximum length of 2048.

Pattern: \S+

Required: Yes

### DigitalSignatureMethod (p. 9)

Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384. For more information, see [RFC 7518 Digital Signature with RSASSA-PSS](#).

Type: String

Valid Values: JWT\_PS384

Required: Yes

#### Entitlements (p. 9)

License entitlements. Partial checkouts are not supported.

Type: Array of [EntitlementData \(p. 163\)](#) objects

Required: Yes

#### LicenseArn (p. 9)

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

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_.-]{0,1023}$`

Required: Yes

#### NodeId (p. 9)

Node ID.

Type: String

Required: No

## Response Syntax

```
{
  "CheckoutMetadata": [
    {
      "Name": "string",
      "Value": "string"
    }
  ],
  "EntitlementsAllowed": [
    {
      "Name": "string",
      "Unit": "string",
      "Value": "string"
    }
  ],
  "Expiration": "string",
  "IssuedAt": "string",
  "LicenseArn": "string",
  "LicenseConsumptionToken": "string",
  "NodeId": "string",
  "SignedToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**CheckoutMetadata (p. 10)**

Information about constraints.

Type: Array of [Metadata \(p. 192\)](#) objects

**EntitlementsAllowed (p. 10)**

Allowed license entitlements.

Type: Array of [EntitlementData \(p. 163\)](#) objects

**Expiration (p. 10)**

Date and time at which the license checkout expires.

Type: String

Length Constraints: Maximum length of 50.

Pattern: `^(-(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|1-2[0-9])T(2[0-3]|0[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\.[0-9]+)?(Z|[+-](?:2[0-3]|0[0-1][0-9]):[0-5][0-9])+$`

**IssuedAt (p. 10)**

Date and time at which the license checkout is issued.

Type: String

Length Constraints: Maximum length of 50.

Pattern: `^(-(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|1-2[0-9])T(2[0-3]|0[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\.[0-9]+)?(Z|[+-](?:2[0-3]|0[0-1][0-9]):[0-5][0-9])+$`

**LicenseArn (p. 10)**

Amazon Resource Name (ARN) of the license.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/_+=,@.-]{0,1023}$`

**LicenseConsumptionToken (p. 10)**

License consumption token.

Type: String

**NodeId (p. 10)**

Node ID.

Type: String

**SignedToken (p. 10)**

Signed token.

Type: String

Length Constraints: Minimum length of 4096.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **EntitlementNotAllowedException**

The entitlement is not allowed.

HTTP Status Code: 400

### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

### **NoEntitlementsAllowedException**

There are no entitlements found for this license, or the entitlement maximum count is reached.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **RedirectException**

This is not the correct Region for the resource. Try again.

HTTP Status Code: 400

### **ResourceNotFoundException**

The resource cannot be found.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **UnsupportedDigitalSignatureMethodException**

The digital signature method is unsupported. Try your request again.

HTTP Status Code: 400

### **ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CheckoutLicense

Checks out the specified license.

## Request Syntax

```
{
  "Beneficiary": "string",
  "CheckoutType": "string",
  "ClientToken": "string",
  "Entitlements": [
    {
      "Name": "string",
      "Unit": "string",
      "Value": "string"
    }
  ],
  "KeyFingerprint": "string",
  "NodeId": "string",
  "ProductSKU": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### **Beneficiary** (p. 14)

License beneficiary.

Type: String

Required: No

### **CheckoutType** (p. 14)

Checkout type.

Type: String

Valid Values: PROVISIONAL | PERPETUAL

Required: Yes

### **ClientToken** (p. 14)

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

Type: String

Length Constraints: Maximum length of 2048.

Pattern: \S+

Required: Yes

### **Entitlements** (p. 14)

License entitlements.



Type: Array of [EntitlementData](#) (p. 163) objects

Required: Yes

#### **KeyFingerprint** (p. 14)

Key fingerprint identifying the license.

Type: String

Required: Yes

#### **NodeId** (p. 14)

Node ID.

Type: String

Required: No

#### **ProductSKU** (p. 14)

Product SKU.

Type: String

Required: Yes

## Response Syntax

```
{
  "CheckoutType": "string",
  "EntitlementsAllowed": [
    {
      "Name": "string",
      "Unit": "string",
      "Value": "string"
    }
  ],
  "Expiration": "string",
  "IssuedAt": "string",
  "LicenseArn": "string",
  "LicenseConsumptionToken": "string",
  "NodeId": "string",
  "SignedToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

#### **CheckoutType** (p. 15)

Checkout type.

Type: String

Valid Values: PROVISIONAL | PERPETUAL

### **EntitlementsAllowed (p. 15)**

Allowed license entitlements.

Type: Array of [EntitlementData \(p. 163\)](#) objects

### **Expiration (p. 15)**

Date and time at which the license checkout expires.

Type: String

Length Constraints: Maximum length of 50.

Pattern: `^(?:(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|1[1-2][0-9])T(2[0-3]|0[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\.[0-9]+)?(Z|[+-](?:2[0-3]|0[0-1][0-9]):[0-5][0-9])+$`

### **IssuedAt (p. 15)**

Date and time at which the license checkout is issued.

Type: String

Length Constraints: Maximum length of 50.

Pattern: `^(?:(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|1[1-2][0-9])T(2[0-3]|0[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\.[0-9]+)?(Z|[+-](?:2[0-3]|0[0-1][0-9]):[0-5][0-9])+$`

### **LicenseArn (p. 15)**

Amazon Resource Name (ARN) of the checkout license.

Type: String

### **LicenseConsumptionToken (p. 15)**

License consumption token.

Type: String

### **NodeId (p. 15)**

Node ID.

Type: String

### **SignedToken (p. 15)**

Signed token.

Type: String

Length Constraints: Minimum length of 4096.

## **Errors**

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

**AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

**InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

**NoEntitlementsAllowedException**

There are no entitlements found for this license, or the entitlement maximum count is reached.

HTTP Status Code: 400

**RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

**RedirectException**

This is not the correct Region for the resource. Try again.

HTTP Status Code: 400

**ResourceNotFoundException**

The resource cannot be found.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

**UnsupportedDigitalSignatureMethodException**

The digital signature method is unsupported. Try your request again.

HTTP Status Code: 400

**ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateGrant

Creates a grant for the specified license. A grant shares the use of license entitlements with specific AWS accounts.

## Request Syntax

```
{  
  "AllowedOperations": [ "string" ],  
  "ClientToken": "string",  
  "GrantName": "string",  
  "HomeRegion": "string",  
  "LicenseArn": "string",  
  "Principals": [ "string" ]  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### AllowedOperations (p. 19)

Allowed operations for the grant.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 7 items.

Valid Values: `CreateGrant` | `CheckoutLicense` | `CheckoutBorrowLicense` | `CheckInLicense` | `ExtendConsumptionLicense` | `ListPurchasedLicenses` | `CreateToken`

Required: Yes

### ClientToken (p. 19)

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

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `\S+`

Required: Yes

### GrantName (p. 19)

Grant name.

Type: String

Required: Yes

### HomeRegion (p. 19)

Home Region of the grant.

Type: String

Required: Yes

**LicenseArn** (p. 19)

Amazon Resource Name (ARN) of the license.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/_+=, @. -]{0,1023}$`

Required: Yes

**Principals** (p. 19)

The grant principals.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/_+=, @. -]{0,1023}$`

Required: Yes

## Response Syntax

```
{
  "GrantArn": "string",
  "Status": "string",
  "Version": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**GrantArn** (p. 20)

Grant ARN.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/_+=, @. -]{0,1023}$`

**Status** (p. 20)

Grant status.

Type: String

Valid Values: PENDING\_WORKFLOW | PENDING\_ACCEPT | REJECTED | ACTIVE |  
FAILED\_WORKFLOW | DELETED | PENDING\_DELETE | DISABLED | WORKFLOW\_COMPLETED

[Version \(p. 20\)](#)

Grant version.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **ResourceLimitExceededException**

Your resource limits have been exceeded.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# CreateGrantVersion

Creates a new version of the specified grant.

## Request Syntax

```
{
  "AllowedOperations": [ "string" ],
  "ClientToken": "string",
  "GrantArn": "string",
  "GrantName": "string",
  "SourceVersion": "string",
  "Status": "string",
  "StatusReason": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### AllowedOperations (p. 23)

Allowed operations for the grant.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 7 items.

Valid Values: `CreateGrant` | `CheckoutLicense` | `CheckoutBorrowLicense` | `CheckInLicense` | `ExtendConsumptionLicense` | `ListPurchasedLicenses` | `CreateToken`

Required: No

### ClientToken (p. 23)

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

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `\S+`

Required: Yes

### GrantArn (p. 23)

Amazon Resource Name (ARN) of the grant.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+,@.-]{0,1023}$`

Required: Yes

**GrantName (p. 23)**

Grant name.

Type: String

Required: No

**SourceVersion (p. 23)**

Current version of the grant.

Type: String

Required: No

**Status (p. 23)**

Grant status.

Type: String

Valid Values: PENDING\_WORKFLOW | PENDING\_ACCEPT | REJECTED | ACTIVE |  
FAILED\_WORKFLOW | DELETED | PENDING\_DELETE | DISABLED | WORKFLOW\_COMPLETED

Required: No

**StatusReason (p. 23)**

Grant status reason.

Type: String

Length Constraints: Maximum length of 400.

Pattern: [\s\S]+

Required: No

## Response Syntax

```
{  
  "GrantArn": "string",  
  "Status": "string",  
  "Version": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**GrantArn (p. 24)**

Grant ARN.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+,@.-]{0,1023}$`

#### Status (p. 24)

Grant status.

Type: String

Valid Values: PENDING\_WORKFLOW | PENDING\_ACCEPT | REJECTED | ACTIVE | FAILED\_WORKFLOW | DELETED | PENDING\_DELETE | DISABLED | WORKFLOW\_COMPLETED

#### Version (p. 24)

New version of the grant.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

#### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

#### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

#### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

#### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

#### **ResourceLimitExceededException**

Your resource limits have been exceeded.

HTTP Status Code: 400

#### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

#### **ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateLicense

Creates a license.

## Request Syntax

```
{
  "Beneficiary": "string",
  "ClientToken": "string",
  "ConsumptionConfiguration": {
    "BorrowConfiguration": {
      "AllowEarlyCheckIn": boolean,
      "MaxTimeToLiveInMinutes": number
    },
    "ProvisionalConfiguration": {
      "MaxTimeToLiveInMinutes": number
    },
    "RenewType": "string"
  },
  "Entitlements": [
    {
      "AllowCheckIn": boolean,
      "MaxCount": number,
      "Name": "string",
      "Overage": boolean,
      "Unit": "string",
      "Value": "string"
    }
  ],
  "HomeRegion": "string",
  "Issuer": {
    "Name": "string",
    "SignKey": "string"
  },
  "LicenseMetadata": [
    {
      "Name": "string",
      "Value": "string"
    }
  ],
  "LicenseName": "string",
  "ProductName": "string",
  "ProductSKU": "string",
  "Validity": {
    "Begin": "string",
    "End": "string"
  }
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### Beneficiary (p. 27)

License beneficiary.

Type: String

Required: Yes

**ClientToken (p. 27)**

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

Type: String

Length Constraints: Maximum length of 2048.

Pattern: \S+

Required: Yes

**ConsumptionConfiguration (p. 27)**

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.

Type: [ConsumptionConfiguration \(p. 159\)](#) object

Required: Yes

**Entitlements (p. 27)**

License entitlements.

Type: Array of [Entitlement \(p. 161\)](#) objects

Required: Yes

**HomeRegion (p. 27)**

Home Region for the license.

Type: String

Required: Yes

**Issuer (p. 27)**

License issuer.

Type: [Issuer \(p. 173\)](#) object

Required: Yes

**LicenseMetadata (p. 27)**

Information about the license.

Type: Array of [Metadata \(p. 192\)](#) objects

Required: No

**LicenseName (p. 27)**

License name.

Type: String

Required: Yes

**ProductName (p. 27)**

Product name.

Type: String

Required: Yes

#### **ProductSKU** (p. 27)

Product SKU.

Type: String

Required: Yes

#### **Validity** (p. 27)

Date and time range during which the license is valid, in ISO8601-UTC format.

Type: [DatetimeRange](#) (p. 160) object

Required: Yes

## Response Syntax

```
{  
  "LicenseArn": "string",  
  "Status": "string",  
  "Version": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

#### **LicenseArn** (p. 29)

Amazon Resource Name (ARN) of the license.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+,@.-]{0,1023}$`

#### **Status** (p. 29)

License status.

Type: String

Valid Values: AVAILABLE | PENDING\_AVAILABLE | DEACTIVATED | SUSPENDED | EXPIRED  
| PENDING\_DELETE | DELETED

#### **Version** (p. 29)

License version.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **RedirectException**

This is not the correct Region for the resource. Try again.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)





# CreateLicenseConfiguration

Creates a license configuration.

A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used.

## Request Syntax

```
{
  "Description": "string",
  "DisassociateWhenNotFound": boolean,
  "LicenseCount": number,
  "LicenseCountHardLimit": boolean,
  "LicenseCountingType": "string",
  "LicenseRules": [ "string" ],
  "Name": "string",
  "ProductInformationList": [
    {
      "ProductInformationFilterList": [
        {
          "ProductInformationFilterComparator": "string",
          "ProductInformationFilterName": "string",
          "ProductInformationFilterValue": [ "string" ]
        }
      ],
      "ResourceType": "string"
    }
  ],
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### Description (p. 32)

Description of the license configuration.

Type: String

Required: No

### DisassociateWhenNotFound (p. 32)

When true, disassociates a resource when software is uninstalled.

Type: Boolean

Required: No

**LicenseCount** (p. 32)

Number of licenses managed by the license configuration.

Type: Long

Required: No

**LicenseCountHardLimit** (p. 32)

Indicates whether hard or soft license enforcement is used. Exceeding a hard limit blocks the launch of new instances.

Type: Boolean

Required: No

**LicenseCountingType** (p. 32)

Dimension used to track the license inventory.

Type: String

Valid Values: vCPU | Instance | Core | Socket

Required: Yes

**LicenseRules** (p. 32)

License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules vary by dimension, as follows.

- Cores dimension: allowedTenancy | licenseAffinityToHost | maximumCores | minimumCores
- Instances dimension: allowedTenancy | maximumCores | minimumCores | maximumSockets | minimumSockets | maximumVcpus | minimumVcpus
- Sockets dimension: allowedTenancy | licenseAffinityToHost | maximumSockets | minimumSockets
- vCPUs dimension: allowedTenancy | honorVcpuOptimization | maximumVcpus | minimumVcpus

The unit for licenseAffinityToHost is days and the range is 1 to 180. The possible values for allowedTenancy are EC2-Default, EC2-DedicatedHost, and EC2-DedicatedInstance. The possible values for honorVcpuOptimization are True and False.

Type: Array of strings

Required: No

**Name** (p. 32)

Name of the license configuration.

Type: String

Required: Yes

**ProductInformationList** (p. 32)

Product information.

Type: Array of [ProductInformation](#) (p. 194) objects

Required: No

#### **Tags** (p. 32)

Tags to add to the license configuration.

Type: Array of [Tag](#) (p. 206) objects

Required: No

## Response Syntax

```
{  
  "LicenseConfigurationArn": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

#### **LicenseConfigurationArn** (p. 34)

Amazon Resource Name (ARN) of the license configuration.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

#### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

#### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

#### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

#### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

#### **ResourceLimitExceededException**

Your resource limits have been exceeded.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateLicenseConversionTaskForResource

Creates a new license conversion task.

## Request Syntax

```
{
  "DestinationLicenseContext": {
    "UsageOperation": "string"
  },
  "ResourceArn": "string",
  "SourceLicenseContext": {
    "UsageOperation": "string"
  }
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### DestinationLicenseContext (p. 36)

Information that identifies the license type you are converting to. For the structure of the destination license, see [Convert a license type using the AWS CLI](#) in the *AWS License Manager User Guide*.

Type: [LicenseConversionContext](#) (p. 184) object

Required: Yes

### ResourceArn (p. 36)

Amazon Resource Name (ARN) of the resource you are converting the license type for.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_.-+=,@.-]{0,1023}$`

Required: Yes

### SourceLicenseContext (p. 36)

Information that identifies the license type you are converting from. For the structure of the source license, see [Convert a license type using the AWS CLI](#) in the *AWS License Manager User Guide*.

Type: [LicenseConversionContext](#) (p. 184) object

Required: Yes

## Response Syntax

```
{
```

```
}  "LicenseConversionTaskId": "string"
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### **LicenseConversionTaskId** (p. 36)

The ID of the created license type conversion task.

Type: String

Length Constraints: Maximum length of 50.

Pattern: `^[a-z0-9]*`

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# CreateLicenseManagerReportGenerator

Creates a report generator.

## Request Syntax

```
{
  "ClientToken": "string",
  "Description": "string",
  "ReportContext": {
    "licenseConfigurationArns": [ "string" ]
  },
  "ReportFrequency": {
    "period": "string",
    "value": number
  },
  "ReportGeneratorName": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "Type": [ "string" ]
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### ClientToken (p. 39)

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

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

### Description (p. 39)

Description of the report generator.

Type: String

Required: No

### ReportContext (p. 39)

Defines the type of license configuration the report generator tracks.

Type: [ReportContext](#) (p. 199) object

Required: Yes

### ReportFrequency (p. 39)

Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly.

Type: [ReportFrequency \(p. 200\)](#) object

Required: Yes

**[ReportGeneratorName \(p. 39\)](#)**

Name of the report generator.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: Yes

**[Tags \(p. 39\)](#)**

Tags to add to the report generator.

Type: Array of [Tag \(p. 206\)](#) objects

Required: No

**[Type \(p. 39\)](#)**

Type of reports to generate. The following report types can be generated:

- License configuration report - Reports the number and details of consumed licenses for a license configuration.
- Resource report - Reports the tracked licenses and resource consumption for a license configuration.

Type: Array of strings

Valid Values: `LicenseConfigurationSummaryReport` |  
`LicenseConfigurationUsageReport`

Required: Yes

## Response Syntax

```
{  
  "LicenseManagerReportGeneratorArn": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**[LicenseManagerReportGeneratorArn \(p. 40\)](#)**

The Amazon Resource Name (ARN) of the new report generator.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

**AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

**AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

**InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

**RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

**ResourceLimitExceededException**

Your resource limits have been exceeded.

HTTP Status Code: 400

**ResourceNotFoundException**

The resource cannot be found.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

**ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# CreateLicenseVersion

Creates a new version of the specified license.

## Request Syntax

```
{
  "ClientToken": "string",
  "ConsumptionConfiguration": {
    "BorrowConfiguration": {
      "AllowEarlyCheckIn": boolean,
      "MaxTimeToLiveInMinutes": number
    },
    "ProvisionalConfiguration": {
      "MaxTimeToLiveInMinutes": number
    },
    "RenewType": "string"
  },
  "Entitlements": [
    {
      "AllowCheckIn": boolean,
      "MaxCount": number,
      "Name": "string",
      "Overage": boolean,
      "Unit": "string",
      "Value": "string"
    }
  ],
  "HomeRegion": "string",
  "Issuer": {
    "Name": "string",
    "SignKey": "string"
  },
  "LicenseArn": "string",
  "LicenseMetadata": [
    {
      "Name": "string",
      "Value": "string"
    }
  ],
  "LicenseName": "string",
  "ProductName": "string",
  "SourceVersion": "string",
  "Status": "string",
  "Validity": {
    "Begin": "string",
    "End": "string"
  }
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### ClientToken (p. 43)

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

Type: String

Length Constraints: Maximum length of 2048.

Pattern: \S+

Required: Yes

#### **ConsumptionConfiguration (p. 43)**

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.

Type: [ConsumptionConfiguration \(p. 159\)](#) object

Required: Yes

#### **Entitlements (p. 43)**

License entitlements.

Type: Array of [Entitlement \(p. 161\)](#) objects

Required: Yes

#### **HomeRegion (p. 43)**

Home Region of the license.

Type: String

Required: Yes

#### **Issuer (p. 43)**

License issuer.

Type: [Issuer \(p. 173\)](#) object

Required: Yes

#### **LicenseArn (p. 43)**

Amazon Resource Name (ARN) of the license.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: ^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9\_/.-]{0,62}:[A-Za-z0-9\_/.-]{0,63}:[A-Za-z0-9\_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:\_.-]{0,1023}\$

Required: Yes

#### **LicenseMetadata (p. 43)**

Information about the license.

Type: Array of [Metadata \(p. 192\)](#) objects

Required: No

#### **LicenseName (p. 43)**

License name.

Type: String

Required: Yes

**ProductName (p. 43)**

Product name.

Type: String

Required: Yes

**SourceVersion (p. 43)**

Current version of the license.

Type: String

Required: No

**Status (p. 43)**

License status.

Type: String

Valid Values: AVAILABLE | PENDING\_AVAILABLE | DEACTIVATED | SUSPENDED | EXPIRED  
| PENDING\_DELETE | DELETED

Required: Yes

**Validity (p. 43)**

Date and time range during which the license is valid, in ISO8601-UTC format.

Type: [DateTimeRange \(p. 160\)](#) object

Required: Yes

## Response Syntax

```
{
  "LicenseArn": "string",
  "Status": "string",
  "Version": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**LicenseArn (p. 45)**

License ARN.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+,@.-]{0,1023}$`

#### Status (p. 45)

License status.

Type: String

Valid Values: AVAILABLE | PENDING\_AVAILABLE | DEACTIVATED | SUSPENDED | EXPIRED  
| PENDING\_DELETE | DELETED

#### Version (p. 45)

New version of the license.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

#### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

#### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

#### **ConflictException**

There was a conflict processing the request. Try your request again.

HTTP Status Code: 400

#### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

#### **RedirectException**

This is not the correct Region for the resource. Try again.

HTTP Status Code: 400

#### **ResourceNotFoundException**

The resource cannot be found.

HTTP Status Code: 400

#### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500



### **ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateToken

Creates a long-lived token.

A refresh token is a JWT token used to get an access token. With an access token, you can call `AssumeRoleWithWebIdentity` to get role credentials that you can use to call License Manager to manage the specified license.

## Request Syntax

```
{
  "ClientToken": "string",
  "ExpirationInDays": number,
  "LicenseArn": "string",
  "RoleArns": [ "string" ],
  "TokenProperties": [ "string" ]
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### [ClientToken](#) (p. 48)

Idempotency token, valid for 10 minutes.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `\S+`

Required: Yes

### [ExpirationInDays](#) (p. 48)

Token expiration, in days, counted from token creation. The default is 365 days.

Type: Integer

Required: No

### [LicenseArn](#) (p. 48)

Amazon Resource Name (ARN) of the license. The ARN is mapped to the `aud` claim of the JWT token.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_.-+=,@.-]{0,1023}$`

Required: Yes

### RoleArns (p. 48)

Amazon Resource Name (ARN) of the IAM roles to embed in the token. License Manager does not check whether the roles are in use.

Type: Array of strings

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}: [A-Za-z0-9_/.-]{0,63}: [A-Za-z0-9_/.-]{0,63}: [A-Za-z0-9][A-Za-z0-9: _/+ =, @. -]{0,1023}$`

Required: No

### TokenProperties (p. 48)

Data specified by the caller to be included in the JWT token. The data is mapped to the amr claim of the JWT token.

Type: Array of strings

Array Members: Maximum number of 3 items.

Required: No

## Response Syntax

```
{
  "Token": "string",
  "TokenId": "string",
  "TokenType": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### Token (p. 49)

Refresh token, encoded as a JWT token.

Type: String

Length Constraints: Maximum length of 4096.

Pattern: `\S+`

### TokenId (p. 49)

Token ID.

Type: String

### TokenType (p. 49)

Token type.

Type: String

Valid Values: `REFRESH_TOKEN`

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **RedirectException**

This is not the correct Region for the resource. Try again.

HTTP Status Code: 400

### **ResourceLimitExceededException**

Your resource limits have been exceeded.

HTTP Status Code: 400

### **ResourceNotFoundException**

The resource cannot be found.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteGrant

Deletes the specified grant.

## Request Syntax

```
{  
  "GrantArn": "string",  
  "StatusReason": "string",  
  "Version": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### **GrantArn** (p. 52)

Amazon Resource Name (ARN) of the grant.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+*,@.-]{0,1023}$`

Required: Yes

### **StatusReason** (p. 52)

The Status reason for the delete request.

Type: String

Length Constraints: Maximum length of 400.

Pattern: `[\s\S]+`

Required: No

### **Version** (p. 52)

Current version of the grant.

Type: String

Required: Yes

## Response Syntax

```
{  
  "GrantArn": "string",  
  "Status": "string",  
}
```

```
"Version": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### GrantArn (p. 52)

Grant ARN.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/_+=, @. -]{0,1023}$`

### Status (p. 52)

Grant status.

Type: String

Valid Values: `PENDING_WORKFLOW | PENDING_ACCEPT | REJECTED | ACTIVE | FAILED_WORKFLOW | DELETED | PENDING_DELETE | DISABLED | WORKFLOW_COMPLETED`

### Version (p. 52)

Grant version.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

### AccessDeniedException

Access to resource denied.

HTTP Status Code: 400

### AuthorizationException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### InvalidParameterValueException

One or more parameter values are not valid.

HTTP Status Code: 400

### RateLimitExceededException

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

**ResourceLimitExceededException**

Your resource limits have been exceeded.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

**ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# DeleteLicense

Deletes the specified license.

## Request Syntax

```
{  
  "LicenseArn": "string",  
  "SourceVersion": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### LicenseArn (p. 55)

Amazon Resource Name (ARN) of the license.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_.-/+,@.]{0,1023}$`

Required: Yes

### SourceVersion (p. 55)

Current version of the license.

Type: String

Required: Yes

## Response Syntax

```
{  
  "DeletionDate": "string",  
  "Status": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### DeletionDate (p. 55)

Date when the license is deleted.

Type: String

Length Constraints: Maximum length of 50.

Pattern: `^(~?([1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|1[1-2][0-9])T(2[0-3]|0[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\.[0-9]+)?(Z|[+-](?:2[0-3]|0[0-1][0-9]):[0-5][0-9])+$`

#### Status (p. 55)

License status.

Type: String

Valid Values: `PENDING_DELETE` | `DELETED`

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **ConflictException**

There was a conflict processing the request. Try your request again.

HTTP Status Code: 400

### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **RedirectException**

This is not the correct Region for the resource. Try again.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteLicenseConfiguration

Deletes the specified license configuration.

You cannot delete a license configuration that is in use.

## Request Syntax

```
{  
  "LicenseConfigurationArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### **LicenseConfigurationArn** (p. 58)

ID of the license configuration.

Type: String

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteLicenseManagerReportGenerator

Deletes the specified report generator.

This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports from this generator.

## Request Syntax

```
{  
  "LicenseManagerReportGeneratorArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 209\)](#).

The request accepts the following data in JSON format.

### **LicenseManagerReportGeneratorArn (p. 60)**

Amazon Resource Name (ARN) of the report generator to be deleted.

Type: String

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

**ResourceLimitExceededException**

Your resource limits have been exceeded.

HTTP Status Code: 400

**ResourceNotFoundException**

The resource cannot be found.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

**ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteToken

Deletes the specified token. Must be called in the license home Region.

## Request Syntax

```
{  
  "TokenId": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### TokenId (p. 62)

Token ID.

Type: String

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

### AccessDeniedException

Access to resource denied.

HTTP Status Code: 400

### AuthorizationException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### RateLimitExceededException

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### RedirectException

This is not the correct Region for the resource. Try again.

HTTP Status Code: 400



#### **ResourceNotFoundException**

The resource cannot be found.

HTTP Status Code: 400

#### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

#### **ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ExtendLicenseConsumption

Extends the expiration date for license consumption.

## Request Syntax

```
{  
  "DryRun": boolean,  
  "LicenseConsumptionToken": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### DryRun (p. 64)

Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions.

Type: Boolean

Required: No

### LicenseConsumptionToken (p. 64)

License consumption token.

Type: String

Required: Yes

## Response Syntax

```
{  
  "Expiration": "string",  
  "LicenseConsumptionToken": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### Expiration (p. 64)

Date and time at which the license consumption expires.

Type: String

Length Constraints: Maximum length of 50.

Pattern: ^(-?(?:[1-9][0-9]\*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|1[1-2][0-9])T(2[0-3]|0[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\.[0-9]+)?(Z|[+-](?:2[0-3]|0[0-1][0-9]):[0-5][0-9])+\$

**LicenseConsumptionToken** (p. 64)

License consumption token.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

**AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

**AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

**InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

**RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

**ResourceNotFoundException**

The resource cannot be found.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

**ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetAccessToken

Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour.

## Request Syntax

```
{
  "Token": "string",
  "TokenProperties": [ "string" ]
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### Token (p. 67)

Refresh token, encoded as a JWT token.

Type: String

Length Constraints: Maximum length of 4096.

Pattern: \S+

Required: Yes

### TokenProperties (p. 67)

Token properties to validate against those present in the JWT token.

Type: Array of strings

Array Members: Maximum number of 3 items.

Required: No

## Response Syntax

```
{
  "AccessToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### AccessToken (p. 67)

Temporary access token.

Type: String

Length Constraints: Maximum length of 4096.

Pattern: \S+

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetGrant

Gets detailed information about the specified grant.

## Request Syntax

```
{
  "GrantArn": "string",
  "Version": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### GrantArn (p. 69)

Amazon Resource Name (ARN) of the grant.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:._/+=,@.-]{0,1023}$`

Required: Yes

### Version (p. 69)

Grant version.

Type: String

Required: No

## Response Syntax

```
{
  "Grant": {
    "GrantArn": "string",
    "GrantedOperations": [ "string" ],
    "GranteePrincipalArn": "string",
    "GrantName": "string",
    "GrantStatus": "string",
    "HomeRegion": "string",
    "LicenseArn": "string",
    "ParentArn": "string",
    "StatusReason": "string",
    "Version": "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [Grant](#) (p. 69)

Grant details.

Type: [Grant](#) (p. 166) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **ResourceLimitExceededException**

Your resource limits have been exceeded.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:



- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetLicense

Gets detailed information about the specified license.

## Request Syntax

```
{
  "LicenseArn": "string",
  "Version": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### LicenseArn (p. 72)

Amazon Resource Name (ARN) of the license.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:._/+=,@.-]{0,1023}$`

Required: Yes

### Version (p. 72)

License version.

Type: String

Required: No

## Response Syntax

```
{
  "License": {
    "Beneficiary": "string",
    "ConsumptionConfiguration": {
      "BorrowConfiguration": {
        "AllowEarlyCheckIn": boolean,
        "MaxTimeToLiveInMinutes": number
      },
      "ProvisionalConfiguration": {
        "MaxTimeToLiveInMinutes": number
      },
      "RenewType": "string"
    },
    "CreateTime": "string",
```

```
"Entitlements": [
  {
    "AllowCheckIn": boolean,
    "MaxCount": number,
    "Name": "string",
    "Overage": boolean,
    "Unit": "string",
    "Value": "string"
  }
],
"HomeRegion": "string",
"Issuer": {
  "KeyFingerprint": "string",
  "Name": "string",
  "SignKey": "string"
},
"LicenseArn": "string",
"LicenseMetadata": [
  {
    "Name": "string",
    "Value": "string"
  }
],
"LicenseName": "string",
"ProductName": "string",
"ProductSKU": "string",
"Status": "string",
"Validity": {
  "Begin": "string",
  "End": "string"
},
"Version": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### License (p. 72)

License details.

Type: [License \(p. 175\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

### AccessDeniedException

Access to resource denied.

HTTP Status Code: 400

### AuthorizationException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

**InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

**RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

**ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetLicenseConfiguration

Gets detailed information about the specified license configuration.

## Request Syntax

```
{  
  "LicenseConfigurationArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 209\)](#).

The request accepts the following data in JSON format.

### LicenseConfigurationArn (p. 75)

Amazon Resource Name (ARN) of the license configuration.

Type: String

Required: Yes

## Response Syntax

```
{  
  "AutomatedDiscoveryInformation": {  
    "LastRuntime": number  
  },  
  "ConsumedLicenses": number,  
  "ConsumedLicenseSummaryList": [  
    {  
      "ConsumedLicenses": number,  
      "ResourceType": "string"  
    }  
  ],  
  "Description": "string",  
  "DisassociateWhenNotFound": boolean,  
  "LicenseConfigurationArn": "string",  
  "LicenseConfigurationId": "string",  
  "LicenseCount": number,  
  "LicenseCountHardLimit": boolean,  
  "LicenseCountingType": "string",  
  "LicenseRules": [ "string" ],  
  "ManagedResourceSummaryList": [  
    {  
      "AssociationCount": number,  
      "ResourceType": "string"  
    }  
  ],  
  "Name": "string",  
  "OwnerAccountId": "string",  
  "ProductInformationList": [  
    {  
      "ProductInformationFilterList": [  
        "string"  
      ]  
    }  
  ]  
}
```

```
    {
      "ProductInformationFilterComparator": "string",
      "ProductInformationFilterName": "string",
      "ProductInformationFilterValue": [ "string" ]
    }
  ],
  "ResourceType": "string"
}
],
"Status": "string",
"Tags": [
  {
    "Key": "string",
    "Value": "string"
  }
]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### **AutomatedDiscoveryInformation** (p. 75)

Automated discovery information.

Type: [AutomatedDiscoveryInformation](#) (p. 156) object

### **ConsumedLicenses** (p. 75)

Number of licenses assigned to resources.

Type: Long

### **ConsumedLicenseSummaryList** (p. 75)

Summaries of the licenses consumed by resources.

Type: Array of [ConsumedLicenseSummary](#) (p. 158) objects

### **Description** (p. 75)

Description of the license configuration.

Type: String

### **DisassociateWhenNotFound** (p. 75)

When true, disassociates a resource when software is uninstalled.

Type: Boolean

### **LicenseConfigurationArn** (p. 75)

Amazon Resource Name (ARN) of the license configuration.

Type: String

### **LicenseConfigurationId** (p. 75)

Unique ID for the license configuration.

Type: String

**LicenseCount** (p. 75)

Number of available licenses.

Type: Long

**LicenseCountHardLimit** (p. 75)

Sets the number of available licenses as a hard limit.

Type: Boolean

**LicenseCountingType** (p. 75)

Dimension for which the licenses are counted.

Type: String

Valid Values: `vCPU` | `Instance` | `Core` | `Socket`

**LicenseRules** (p. 75)

License rules.

Type: Array of strings

**ManagedResourceSummaryList** (p. 75)

Summaries of the managed resources.

Type: Array of [ManagedResourceSummary](#) (p. 191) objects

**Name** (p. 75)

Name of the license configuration.

Type: String

**OwnerAccountId** (p. 75)

Account ID of the owner of the license configuration.

Type: String

**ProductInformationList** (p. 75)

Product information.

Type: Array of [ProductInformation](#) (p. 194) objects

**Status** (p. 75)

License configuration status.

Type: String

**Tags** (p. 75)

Tags for the license configuration.

Type: Array of [Tag](#) (p. 206) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

**AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

**AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

**InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

**RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetLicenseConversionTask

Gets information about the specified license type conversion task.

## Request Syntax

```
{  
  "LicenseConversionTaskId": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### LicenseConversionTaskId (p. 79)

ID of the license type conversion task to retrieve information on.

Type: String

Length Constraints: Maximum length of 50.

Pattern: `^lct-[a-zA-Z0-9]*`

Required: Yes

## Response Syntax

```
{  
  "DestinationLicenseContext": {  
    "UsageOperation": "string"  
  },  
  "EndTime": number,  
  "LicenseConversionTaskId": "string",  
  "LicenseConversionTime": number,  
  "ResourceArn": "string",  
  "SourceLicenseContext": {  
    "UsageOperation": "string"  
  },  
  "StartTime": number,  
  "Status": "string",  
  "StatusMessage": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### DestinationLicenseContext (p. 79)

Information about the license type converted to.

Type: [LicenseConversionContext](#) (p. 184) object

**EndTime** (p. 79)

Time at which the license type conversion task was completed.

Type: Timestamp

**LicenseConversionTaskId** (p. 79)

ID of the license type conversion task.

Type: String

Length Constraints: Maximum length of 50.

Pattern: `^[0-9a-zA-Z0-9]*`

**LicenseConversionTime** (p. 79)

Amount of time to complete the license type conversion.

Type: Timestamp

**ResourceArn** (p. 79)

Amazon Resource Names (ARN) of the resources the license conversion task is associated with.

Type: String

**SourceLicenseContext** (p. 79)

Information about the license type converted from.

Type: [LicenseConversionContext](#) (p. 184) object

**StartTime** (p. 79)

Time at which the license type conversion task was started .

Type: Timestamp

**Status** (p. 79)

Status of the license type conversion task.

Type: String

Valid Values: `IN_PROGRESS` | `SUCCEEDED` | `FAILED`

**StatusMessage** (p. 79)

The status message for the conversion task.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

**AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

#### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

#### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

#### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

#### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetLicenseManagerReportGenerator

Gets information about the specified report generator.

## Request Syntax

```
{  
  "LicenseManagerReportGeneratorArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### LicenseManagerReportGeneratorArn (p. 82)

Amazon Resource Name (ARN) of the report generator.

Type: String

Required: Yes

## Response Syntax

```
{  
  "ReportGenerator": {  
    "CreateTime": "string",  
    "Description": "string",  
    "LastReportGenerationTime": "string",  
    "LastRunFailureReason": "string",  
    "LastRunStatus": "string",  
    "LicenseManagerReportGeneratorArn": "string",  
    "ReportContext": {  
      "licenseConfigurationArns": [ "string" ]  
    },  
    "ReportCreatorAccount": "string",  
    "ReportFrequency": {  
      "period": "string",  
      "value": number  
    },  
    "ReportGeneratorName": "string",  
    "ReportType": [ "string" ],  
    "S3Location": {  
      "bucket": "string",  
      "keyPrefix": "string"  
    },  
    "Tags": [  
      {  
        "Key": "string",  
        "Value": "string"  
      }  
    ]  
  }  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### **ReportGenerator** (p. 82)

A report generator that creates periodic reports about your license configurations.

Type: [ReportGenerator](#) (p. 201) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **ResourceLimitExceededException**

Your resource limits have been exceeded.

HTTP Status Code: 400

### **ResourceNotFoundException**

The resource cannot be found.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetLicenseUsage

Gets detailed information about the usage of the specified license.

## Request Syntax

```
{  
  "LicenseArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### LicenseArn (p. 85)

Amazon Resource Name (ARN) of the license.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:._/+,@.-]{0,1023}$`

Required: Yes

## Response Syntax

```
{  
  "LicenseUsage": {  
    "EntitlementUsages": [  
      {  
        "ConsumedValue": "string",  
        "MaxCount": "string",  
        "Name": "string",  
        "Unit": "string"  
      }  
    ]  
  }  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### LicenseUsage (p. 85)

License usage details.

Type: [LicenseUsage](#) (p. 190) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetServiceSettings

Gets the License Manager settings for the current Region.

## Response Syntax

```
{
  "EnableCrossAccountsDiscovery": boolean,
  "LicenseManagerResourceShareArn": "string",
  "OrganizationConfiguration": {
    "EnableIntegration": boolean
  },
  "S3BucketArn": "string",
  "SnsTopicArn": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### EnableCrossAccountsDiscovery (p. 87)

Indicates whether cross-account discovery is enabled.

Type: Boolean

### LicenseManagerResourceShareArn (p. 87)

Amazon Resource Name (ARN) of the resource share. The License Manager management account provides member accounts with access to this share.

Type: String

### OrganizationConfiguration (p. 87)

Indicates whether AWS Organizations is integrated with License Manager for cross-account discovery.

Type: [OrganizationConfiguration \(p. 193\)](#) object

### S3BucketArn (p. 87)

Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on.

Type: String

### SnsTopicArn (p. 87)

SNS topic configured to receive notifications from License Manager.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

**AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

**AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

**RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListAssociationsForLicenseConfiguration

Lists the resource associations for the specified license configuration.

Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules).

## Request Syntax

```
{  
  "LicenseConfigurationArn": "string",  
  "MaxResults": number,  
  "NextToken": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### LicenseConfigurationArn (p. 89)

Amazon Resource Name (ARN) of a license configuration.

Type: String

Required: Yes

### MaxResults (p. 89)

Maximum number of results to return in a single call.

Type: Integer

Required: No

### NextToken (p. 89)

Token for the next set of results.

Type: String

Required: No

## Response Syntax

```
{  
  "LicenseConfigurationAssociations": [  
    {  
      "AmiAssociationScope": "string",  
      "AssociationTime": number,  
      "ResourceArn": "string",  
      "ResourceOwnerId": "string",  
      "ResourceType": "string"  
    }  
  ]  
}
```

```
  ],  
  "NextToken": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### **LicenseConfigurationAssociations** (p. 89)

Information about the associations for the license configuration.

Type: Array of [LicenseConfigurationAssociation](#) (p. 181) objects

### **NextToken** (p. 89)

Token for the next set of results.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **FilterLimitExceededException**

The request uses too many filters or too many filter values.

HTTP Status Code: 400

### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListDistributedGrants

Lists the grants distributed for the specified license.

## Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "GrantArns": [ "string" ],
  "MaxResults": number,
  "NextToken": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### Filters (p. 92)

Filters to scope the results. The following filters are supported:

- LicenseArn
- GrantStatus
- GranteePrincipalARN
- ProductSKU
- LicenseIssuerName

Type: Array of [Filter](#) (p. 165) objects

Required: No

### GrantArns (p. 92)

Amazon Resource Names (ARNs) of the grants.

Type: Array of strings

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/_+=,@.-]{0,1023}$`

Required: No

### MaxResults (p. 92)

Maximum number of results to return in a single call.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

**NextToken** (p. 92)

Token for the next set of results.

Type: String

Required: No

## Response Syntax

```
{
  "Grants": [
    {
      "GrantArn": "string",
      "GrantedOperations": [ "string" ],
      "GranteePrincipalArn": "string",
      "GrantName": "string",
      "GrantStatus": "string",
      "HomeRegion": "string",
      "LicenseArn": "string",
      "ParentArn": "string",
      "StatusReason": "string",
      "Version": "string"
    }
  ],
  "NextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**Grants** (p. 93)

Distributed grant details.

Type: Array of [Grant](#) (p. 166) objects

**NextToken** (p. 93)

Token for the next set of results.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

**AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **ResourceLimitExceededException**

Your resource limits have been exceeded.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# ListFailuresForLicenseConfigurationOperations

Lists the license configuration operations that failed.

## Request Syntax

```
{  
  "LicenseConfigurationArn": "string",  
  "MaxResults": number,  
  "NextToken": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### LicenseConfigurationArn (p. 95)

Amazon Resource Name of the license configuration.

Type: String

Required: Yes

### MaxResults (p. 95)

Maximum number of results to return in a single call.

Type: Integer

Required: No

### NextToken (p. 95)

Token for the next set of results.

Type: String

Required: No

## Response Syntax

```
{  
  "LicenseOperationFailureList": [  
    {  
      "ErrorMessage": "string",  
      "FailureTime": number,  
      "MetadataList": [  
        {  
          "Name": "string",  
          "Value": "string"  
        }  
      ],  
      "OperationName": "string",  
    }  
  ]  
}
```

```
    "OperationRequestedBy": "string",  
    "ResourceArn": "string",  
    "ResourceOwnerId": "string",  
    "ResourceType": "string"  
  }  
],  
"NextToken": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### **LicenseOperationFailureList** (p. 95)

License configuration operations that failed.

Type: Array of [LicenseOperationFailure](#) (p. 187) objects

### **NextToken** (p. 95)

Token for the next set of results.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListLicenseConfigurations

Lists the license configurations for your account.

## Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "LicenseConfigurationArns": [ "string" ],
  "MaxResults": number,
  "NextToken": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### Filters (p. 98)

Filters to scope the results. The following filters and logical operators are supported:

- `licenseCountingType` - The dimension for which licenses are counted. Possible values are `vCPU` | `Instance` | `Core` | `Socket`. Logical operators are `EQUALS` | `NOT_EQUALS`.
- `enforceLicenseCount` - A Boolean value that indicates whether hard license enforcement is used. Logical operators are `EQUALS` | `NOT_EQUALS`.
- `usageLimitExceeded` - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are `EQUALS` | `NOT_EQUALS`.

Type: Array of [Filter](#) (p. 165) objects

Required: No

### LicenseConfigurationArns (p. 98)

Amazon Resource Names (ARN) of the license configurations.

Type: Array of strings

Required: No

### MaxResults (p. 98)

Maximum number of results to return in a single call.

Type: Integer

Required: No

### NextToken (p. 98)

Token for the next set of results.

Type: String

Required: No

## Response Syntax

```
{
  "LicenseConfigurations": [
    {
      "AutomatedDiscoveryInformation": {
        "LastRunTime": number
      },
      "ConsumedLicenses": number,
      "ConsumedLicenseSummaryList": [
        {
          "ConsumedLicenses": number,
          "ResourceType": "string"
        }
      ],
      "Description": "string",
      "DisassociateWhenNotFound": boolean,
      "LicenseConfigurationArn": "string",
      "LicenseConfigurationId": "string",
      "LicenseCount": number,
      "LicenseCountHardLimit": boolean,
      "LicenseCountingType": "string",
      "LicenseRules": [ "string" ],
      "ManagedResourceSummaryList": [
        {
          "AssociationCount": number,
          "ResourceType": "string"
        }
      ],
      "Name": "string",
      "OwnerAccountId": "string",
      "ProductInformationList": [
        {
          "ProductInformationFilterList": [
            {
              "ProductInformationFilterComparator": "string",
              "ProductInformationFilterName": "string",
              "ProductInformationFilterValue": [ "string" ]
            }
          ],
          "ResourceType": "string"
        }
      ],
      "Status": "string"
    }
  ],
  "NextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [LicenseConfigurations \(p. 99\)](#)

Information about the license configurations.

Type: Array of [LicenseConfiguration](#) (p. 178) objects

**NextToken** (p. 99)

Token for the next set of results.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **FilterLimitExceededException**

The request uses too many filters or too many filter values.

HTTP Status Code: 400

### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListLicenseConversionTasks

Lists the license type conversion tasks for your account.

## Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### Filters (p. 102)

Filters to scope the results. Valid filters are ResourceArns and Status.

Type: Array of [Filter](#) (p. 165) objects

Required: No

### MaxResults (p. 102)

Maximum number of results to return in a single call.

Type: Integer

Required: No

### NextToken (p. 102)

Token for the next set of results.

Type: String

Required: No

## Response Syntax

```
{
  "LicenseConversionTasks": [
    {
      "DestinationLicenseContext": {
        "UsageOperation": "string"
      },
      "EndTime": number,
      "LicenseConversionTaskId": "string",

```



```
    "LicenseConversionTime": number,  
    "ResourceArn": "string",  
    "SourceLicenseContext": {  
      "UsageOperation": "string"  
    },  
    "StartTime": number,  
    "Status": "string",  
    "StatusMessage": "string"  
  },  
  ],  
  "NextToken": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### **LicenseConversionTasks** (p. 102)

Information about the license configuration tasks for your account.

Type: Array of [LicenseConversionTask](#) (p. 185) objects

### **NextToken** (p. 102)

Token for the next set of results.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListLicenseManagerReportGenerators

Lists the report generators for your account.

## Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### Filters (p. 105)

Filters to scope the results. The following filters are supported:

- LicenseConfigurationArn

Type: Array of [Filter](#) (p. 165) objects

Required: No

### MaxResults (p. 105)

Maximum number of results to return in a single call.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

### NextToken (p. 105)

Token for the next set of results.

Type: String

Required: No

## Response Syntax

```
{
  "NextToken": "string",
  "ReportGenerators": [
    {

```

```
    "CreateTime": "string",
    "Description": "string",
    "LastReportGenerationTime": "string",
    "LastRunFailureReason": "string",
    "LastRunStatus": "string",
    "LicenseManagerReportGeneratorArn": "string",
    "ReportContext": {
      "licenseConfigurationArns": [ "string" ]
    },
    "ReportCreatorAccount": "string",
    "ReportFrequency": {
      "period": "string",
      "value": number
    },
    "ReportGeneratorName": "string",
    "ReportType": [ "string" ],
    "S3Location": {
      "bucket": "string",
      "keyPrefix": "string"
    },
    "Tags": [
      {
        "Key": "string",
        "Value": "string"
      }
    ]
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### NextToken (p. 105)

Token for the next set of results.

Type: String

### ReportGenerators (p. 105)

A report generator that creates periodic reports about your license configurations.

Type: Array of [ReportGenerator \(p. 201\)](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

### AccessDeniedException

Access to resource denied.

HTTP Status Code: 400

### AuthorizationException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

**InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

**RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

**ResourceLimitExceededException**

Your resource limits have been exceeded.

HTTP Status Code: 400

**ResourceNotFoundException**

The resource cannot be found.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

**ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListLicenses

Lists the licenses for your account.

## Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "LicenseArns": [ "string" ],
  "MaxResults": number,
  "NextToken": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### Filters (p. 108)

Filters to scope the results. The following filters are supported:

- Beneficiary
- ProductSKU
- Fingerprint
- Status

Type: Array of [Filter](#) (p. 165) objects

Required: No

### LicenseArns (p. 108)

Amazon Resource Names (ARNs) of the licenses.

Type: Array of strings

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:._/+=,@.-]{0,1023}$`

Required: No

### MaxResults (p. 108)

Maximum number of results to return in a single call.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

**NextToken** (p. 108)

Token for the next set of results.

Type: String

Required: No

## Response Syntax

```
{
  "Licenses": [
    {
      "Beneficiary": "string",
      "ConsumptionConfiguration": {
        "BorrowConfiguration": {
          "AllowEarlyCheckIn": boolean,
          "MaxTimeToLiveInMinutes": number
        },
        "ProvisionalConfiguration": {
          "MaxTimeToLiveInMinutes": number
        },
        "RenewType": "string"
      },
      "CreateTime": "string",
      "Entitlements": [
        {
          "AllowCheckIn": boolean,
          "MaxCount": number,
          "Name": "string",
          "Overage": boolean,
          "Unit": "string",
          "Value": "string"
        }
      ],
      "HomeRegion": "string",
      "Issuer": {
        "KeyFingerprint": "string",
        "Name": "string",
        "SignKey": "string"
      },
      "LicenseArn": "string",
      "LicenseMetadata": [
        {
          "Name": "string",
          "Value": "string"
        }
      ],
      "LicenseName": "string",
      "ProductName": "string",
      "ProductSKU": "string",
      "Status": "string",
      "Validity": {
        "Begin": "string",
        "End": "string"
      },
      "Version": "string"
    }
  ],
  "NextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### **Licenses** (p. 109)

License details.

Type: Array of [License](#) (p. 175) objects

### **NextToken** (p. 109)

Token for the next set of results.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

### **ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:



- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListLicenseSpecificationsForResource

Describes the license configurations for the specified resource.

## Request Syntax

```
{  
  "MaxResults": number,  
  "NextToken": "string",  
  "ResourceArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 209\)](#).

The request accepts the following data in JSON format.

### MaxResults (p. 112)

Maximum number of results to return in a single call.

Type: Integer

Required: No

### NextToken (p. 112)

Token for the next set of results.

Type: String

Required: No

### ResourceArn (p. 112)

Amazon Resource Name (ARN) of a resource that has an associated license configuration.

Type: String

Required: Yes

## Response Syntax

```
{  
  "LicenseSpecifications": [  
    {  
      "AmiAssociationScope": "string",  
      "LicenseConfigurationArn": "string"  
    }  
  ],  
  "NextToken": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**LicenseSpecifications** (p. 112)

License configurations associated with a resource.

Type: Array of [LicenseSpecification](#) (p. 189) objects

**NextToken** (p. 112)

Token for the next set of results.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

**AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

**AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

**InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

**RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListLicenseVersions

Lists all versions of the specified license.

## Request Syntax

```
{  
  "LicenseArn": "string",  
  "MaxResults": number,  
  "NextToken": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### LicenseArn (p. 115)

Amazon Resource Name (ARN) of the license.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_.-]{0,1023}$`

Required: Yes

### MaxResults (p. 115)

Maximum number of results to return in a single call.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

### NextToken (p. 115)

Token for the next set of results.

Type: String

Required: No

## Response Syntax

```
{  
  "Licenses": [  
    {  
      ...  
    }  
  ]  
}
```

```

    "Beneficiary": "string",
    "ConsumptionConfiguration": {
      "BorrowConfiguration": {
        "AllowEarlyCheckIn": boolean,
        "MaxTimeToLiveInMinutes": number
      },
      "ProvisionalConfiguration": {
        "MaxTimeToLiveInMinutes": number
      },
      "RenewType": "string"
    },
    "CreateTime": "string",
    "Entitlements": [
      {
        "AllowCheckIn": boolean,
        "MaxCount": number,
        "Name": "string",
        "Overage": boolean,
        "Unit": "string",
        "Value": "string"
      }
    ],
    "HomeRegion": "string",
    "Issuer": {
      "KeyFingerprint": "string",
      "Name": "string",
      "SignKey": "string"
    },
    "LicenseArn": "string",
    "LicenseMetadata": [
      {
        "Name": "string",
        "Value": "string"
      }
    ],
    "LicenseName": "string",
    "ProductName": "string",
    "ProductSKU": "string",
    "Status": "string",
    "Validity": {
      "Begin": "string",
      "End": "string"
    },
    "Version": "string"
  }
],
"NextToken": "string"
}

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### Licenses (p. 115)

License details.

Type: Array of [License \(p. 175\)](#) objects

### NextToken (p. 115)

Token for the next set of results.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListReceivedGrants

Lists grants that are received but not accepted.

## Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "GrantArns": [ "string" ],
  "MaxResults": number,
  "NextToken": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### Filters (p. 118)

Filters to scope the results. The following filters are supported:

- ProductSKU
- LicenseIssuerName
- LicenseArn
- GrantStatus
- GranterAccountId

Type: Array of [Filter](#) (p. 165) objects

Required: No

### GrantArns (p. 118)

Amazon Resource Names (ARNs) of the grants.

Type: Array of strings

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/_+=,@.-]{0,1023}$`

Required: No

### MaxResults (p. 118)

Maximum number of results to return in a single call.

Type: Integer



Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

**NextToken** (p. 118)

Token for the next set of results.

Type: String

Required: No

## Response Syntax

```
{
  "Grants": [
    {
      "GrantArn": "string",
      "GrantedOperations": [ "string" ],
      "GranteePrincipalArn": "string",
      "GrantName": "string",
      "GrantStatus": "string",
      "HomeRegion": "string",
      "LicenseArn": "string",
      "ParentArn": "string",
      "StatusReason": "string",
      "Version": "string"
    }
  ],
  "NextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**Grants** (p. 119)

Received grant details.

Type: Array of [Grant](#) (p. 166) objects

**NextToken** (p. 119)

Token for the next set of results.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

**AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

#### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

#### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

#### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

#### **ResourceLimitExceededException**

Your resource limits have been exceeded.

HTTP Status Code: 400

#### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

#### **ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListReceivedLicenses

Lists received licenses.

## Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "LicenseArns": [ "string" ],
  "MaxResults": number,
  "NextToken": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### Filters (p. 121)

Filters to scope the results. The following filters are supported:

- ProductSKU
- Status
- Fingerprint
- IssuerName
- Beneficiary

Type: Array of [Filter](#) (p. 165) objects

Required: No

### LicenseArns (p. 121)

Amazon Resource Names (ARNs) of the licenses.

Type: Array of strings

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/_+=,@.-]{0,1023}$`

Required: No

### MaxResults (p. 121)

Maximum number of results to return in a single call.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

**NextToken** (p. 121)

Token for the next set of results.

Type: String

Required: No

## Response Syntax

```
{
  "Licenses": [
    {
      "Beneficiary": "string",
      "ConsumptionConfiguration": {
        "BorrowConfiguration": {
          "AllowEarlyCheckIn": boolean,
          "MaxTimeToLiveInMinutes": number
        },
        "ProvisionalConfiguration": {
          "MaxTimeToLiveInMinutes": number
        },
        "RenewType": "string"
      },
      "CreateTime": "string",
      "Entitlements": [
        {
          "AllowCheckIn": boolean,
          "MaxCount": number,
          "Name": "string",
          "Overage": boolean,
          "Unit": "string",
          "Value": "string"
        }
      ],
      "HomeRegion": "string",
      "Issuer": {
        "KeyFingerprint": "string",
        "Name": "string",
        "SignKey": "string"
      },
      "LicenseArn": "string",
      "LicenseMetadata": [
        {
          "Name": "string",
          "Value": "string"
        }
      ],
      "LicenseName": "string",
      "ProductName": "string",
      "ProductSKU": "string",
      "ReceivedMetadata": {
        "AllowedOperations": [ "string" ],
        "ReceivedStatus": "string",
        "ReceivedStatusReason": "string"
      },
      "Status": "string",
      "Validity": {
        "Begin": "string",
```

```
        "End": "string"
      },
      "Version": "string"
    }
  ],
  "NextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### Licenses (p. 122)

Received license details.

Type: Array of [GrantedLicense \(p. 169\)](#) objects

### NextToken (p. 122)

Token for the next set of results.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

### AccessDeniedException

Access to resource denied.

HTTP Status Code: 400

### AuthorizationException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### InvalidParameterValueException

One or more parameter values are not valid.

HTTP Status Code: 400

### RateLimitExceededException

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### ResourceLimitExceededException

Your resource limits have been exceeded.

HTTP Status Code: 400

### ServerInternalException

The server experienced an internal error. Try again.

HTTP Status Code: 500

**ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListResourceInventory

Lists resources managed using Systems Manager inventory.

## Request Syntax

```
{
  "Filters": [
    {
      "Condition": "string",
      "Name": "string",
      "Value": "string"
    }
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### Filters (p. 125)

Filters to scope the results. The following filters and logical operators are supported:

- `account_id` - The ID of the AWS account that owns the resource. Logical operators are `EQUALS` | `NOT_EQUALS`.
- `application_name` - The name of the application. Logical operators are `EQUALS` | `BEGINS_WITH`.
- `license_included` - The type of license included. Logical operators are `EQUALS` | `NOT_EQUALS`. Possible values are `sql-server-enterprise` | `sql-server-standard` | `sql-server-web` | `windows-server-datacenter`.
- `platform` - The platform of the resource. Logical operators are `EQUALS` | `BEGINS_WITH`.
- `resource_id` - The ID of the resource. Logical operators are `EQUALS` | `NOT_EQUALS`.
- `tag:<key>` - The key/value combination of a tag assigned to the resource. Logical operators are `EQUALS` (single account) or `EQUALS` | `NOT_EQUALS` (cross account).

Type: Array of [InventoryFilter](#) (p. 172) objects

Required: No

### MaxResults (p. 125)

Maximum number of results to return in a single call.

Type: Integer

Required: No

### NextToken (p. 125)

Token for the next set of results.

Type: String

Required: No

## Response Syntax

```
{
  "NextToken": "string",
  "ResourceInventoryList": [
    {
      "Platform": "string",
      "PlatformVersion": "string",
      "ResourceArn": "string",
      "ResourceId": "string",
      "ResourceOwningAccountId": "string",
      "ResourceType": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### **NextToken** (p. 126)

Token for the next set of results.

Type: String

### **ResourceInventoryList** (p. 126)

Information about the resources.

Type: Array of [ResourceInventory](#) (p. 203) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **FailedDependencyException**

A dependency required to run the API is missing.

HTTP Status Code: 400



**FilterLimitExceededException**

The request uses too many filters or too many filter values.

HTTP Status Code: 400

**InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

**RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListTagsForResource

Lists the tags for the specified license configuration.

## Request Syntax

```
{  
  "ResourceArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 209\)](#).

The request accepts the following data in JSON format.

### ResourceArn (p. 128)

Amazon Resource Name (ARN) of the license configuration.

Type: String

Required: Yes

## Response Syntax

```
{  
  "Tags": [  
    {  
      "Key": "string",  
      "Value": "string"  
    }  
  ]  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### Tags (p. 128)

Information about the tags.

Type: Array of [Tag \(p. 206\)](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

**AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

**AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

**InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

**RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListTokens

Lists your tokens.

## Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string",
  "TokenIds": [ "string" ]
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### Filters (p. 130)

Filters to scope the results. The following filter is supported:

- `LicenseArns`

Type: Array of [Filter](#) (p. 165) objects

Required: No

### MaxResults (p. 130)

Maximum number of results to return in a single call.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

### NextToken (p. 130)

Token for the next set of results.

Type: String

Required: No

### TokenIds (p. 130)

Token IDs.

Type: Array of strings

Required: No

## Response Syntax

```
{
  "NextToken": "string",
  "Tokens": [
    {
      "ExpirationTime": "string",
      "LicenseArn": "string",
      "RoleArns": [ "string" ],
      "Status": "string",
      "TokenId": "string",
      "TokenProperties": [ "string" ],
      "TokenType": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### **NextToken** (p. 131)

Token for the next set of results.

Type: String

### **Tokens** (p. 131)

Received token details.

Type: Array of [TokenData](#) (p. 207) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

**ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListUsageForLicenseConfiguration

Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration.

## Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "LicenseConfigurationArn": "string",
  "MaxResults": number,
  "NextToken": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### Filters (p. 133)

Filters to scope the results. The following filters and logical operators are supported:

- **resourceArn** - The ARN of the license configuration resource. Logical operators are `EQUALS` | `NOT_EQUALS`.
- **resourceType** - The resource type (`EC2_INSTANCE` | `EC2_HOST` | `EC2_AMI` | `SYSTEMS_MANAGER_MANAGED_INSTANCE`). Logical operators are `EQUALS` | `NOT_EQUALS`.
- **resourceAccount** - The ID of the account that owns the resource. Logical operators are `EQUALS` | `NOT_EQUALS`.

Type: Array of [Filter](#) (p. 165) objects

Required: No

### LicenseConfigurationArn (p. 133)

Amazon Resource Name (ARN) of the license configuration.

Type: String

Required: Yes

### MaxResults (p. 133)

Maximum number of results to return in a single call.

Type: Integer

Required: No

### NextToken (p. 133)

Token for the next set of results.

Type: String

Required: No

## Response Syntax

```
{
  "LicenseConfigurationUsageList": [
    {
      "AssociationTime": number,
      "ConsumedLicenses": number,
      "ResourceArn": "string",
      "ResourceOwnerId": "string",
      "ResourceStatus": "string",
      "ResourceType": "string"
    }
  ],
  "NextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### **LicenseConfigurationUsageList** (p. 134)

Information about the license configurations.

Type: Array of [LicenseConfigurationUsage](#) (p. 182) objects

### **NextToken** (p. 134)

Token for the next set of results.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **FilterLimitExceededException**

The request uses too many filters or too many filter values.



HTTP Status Code: 400

**InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

**RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# RejectGrant

Rejects the specified grant.

## Request Syntax

```
{  
  "GrantArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### GrantArn (p. 136)

Amazon Resource Name (ARN) of the grant.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_.-/+,@.-]{0,1023}$`

Required: Yes

## Response Syntax

```
{  
  "GrantArn": "string",  
  "Status": "string",  
  "Version": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### GrantArn (p. 136)

Grant ARN.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+,@.-]{0,1023}$`

#### Status (p. 136)

Grant status.

Type: String

Valid Values: `PENDING_WORKFLOW` | `PENDING_ACCEPT` | `REJECTED` | `ACTIVE` | `FAILED_WORKFLOW` | `DELETED` | `PENDING_DELETE` | `DISABLED` | `WORKFLOW_COMPLETED`

#### Version (p. 136)

Grant version.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

#### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

#### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

#### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

#### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

#### **ResourceLimitExceededException**

Your resource limits have been exceeded.

HTTP Status Code: 400

#### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

#### **ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# TagResource

Adds the specified tags to the specified license configuration.

## Request Syntax

```
{
  "ResourceArn": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 209\)](#).

The request accepts the following data in JSON format.

### **ResourceArn** (p. 139)

Amazon Resource Name (ARN) of the license configuration.

Type: String

Required: Yes

### **Tags** (p. 139)

One or more tags.

Type: Array of [Tag \(p. 206\)](#) objects

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

**InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

**RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UntagResource

Removes the specified tags from the specified license configuration.

## Request Syntax

```
{  
  "ResourceArn": "string",  
  "TagKeys": [ "string" ]  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 209\)](#).

The request accepts the following data in JSON format.

### ResourceArn (p. 141)

Amazon Resource Name (ARN) of the license configuration.

Type: String

Required: Yes

### TagKeys (p. 141)

Keys identifying the tags to remove.

Type: Array of strings

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

### AccessDeniedException

Access to resource denied.

HTTP Status Code: 400

### AuthorizationException

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### InvalidParameterValueException

One or more parameter values are not valid.

HTTP Status Code: 400

**RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# UpdateLicenseConfiguration

Modifies the attributes of an existing license configuration.

## Request Syntax

```
{
  "Description": "string",
  "DisassociateWhenNotFound": boolean,
  "LicenseConfigurationArn": "string",
  "LicenseConfigurationStatus": "string",
  "LicenseCount": number,
  "LicenseCountHardLimit": boolean,
  "LicenseRules": [ "string" ],
  "Name": "string",
  "ProductInformationList": [
    {
      "ProductInformationFilterList": [
        {
          "ProductInformationFilterComparator": "string",
          "ProductInformationFilterName": "string",
          "ProductInformationFilterValue": [ "string" ]
        }
      ],
      "ResourceType": "string"
    }
  ]
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### Description (p. 143)

New description of the license configuration.

Type: String

Required: No

### DisassociateWhenNotFound (p. 143)

When true, disassociates a resource when software is uninstalled.

Type: Boolean

Required: No

### LicenseConfigurationArn (p. 143)

Amazon Resource Name (ARN) of the license configuration.

Type: String

Required: Yes

#### **LicenseConfigurationStatus** (p. 143)

New status of the license configuration.

Type: String

Valid Values: AVAILABLE | DISABLED

Required: No

#### **LicenseCount** (p. 143)

New number of licenses managed by the license configuration.

Type: Long

Required: No

#### **LicenseCountHardLimit** (p. 143)

New hard limit of the number of available licenses.

Type: Boolean

Required: No

#### **LicenseRules** (p. 143)

New license rule. The only rule that you can add after you create a license configuration is `licenseAffinityToHost`.

Type: Array of strings

Required: No

#### **Name** (p. 143)

New name of the license configuration.

Type: String

Required: No

#### **ProductInformationList** (p. 143)

New product information.

Type: Array of [ProductInformation](#) (p. 194) objects

Required: No

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

#### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

**AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

**InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

**RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

**ResourceLimitExceededException**

Your resource limits have been exceeded.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateLicenseManagerReportGenerator

Updates a report generator.

After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.

## Request Syntax

```
{
  "ClientToken": "string",
  "Description": "string",
  "LicenseManagerReportGeneratorArn": "string",
  "ReportContext": {
    "licenseConfigurationArns": [ "string" ]
  },
  "ReportFrequency": {
    "period": "string",
    "value": number
  },
  "ReportGeneratorName": "string",
  "Type": [ "string" ]
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### **ClientToken** (p. 146)

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

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

### **Description** (p. 146)

Description of the report generator.

Type: String

Required: No

### **LicenseManagerReportGeneratorArn** (p. 146)

Amazon Resource Name (ARN) of the report generator to update.

Type: String

Required: Yes

### **ReportContext** (p. 146)

The report context.

Type: [ReportContext](#) (p. 199) object

Required: Yes

**[ReportFrequency](#) (p. 146)**

Frequency by which reports are generated.

Type: [ReportFrequency](#) (p. 200) object

Required: Yes

**[ReportGeneratorName](#) (p. 146)**

Name of the report generator.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: Yes

**[Type](#) (p. 146)**

Type of reports to generate. The following report types are supported:

- License configuration report - Reports the number and details of consumed licenses for a license configuration.
- Resource report - Reports the tracked licenses and resource consumption for a license configuration.

Type: Array of strings

Valid Values: `LicenseConfigurationSummaryReport` |  
`LicenseConfigurationUsageReport`

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 211).

**`AccessDeniedException`**

Access to resource denied.

HTTP Status Code: 400

**`AuthorizationException`**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

**`InvalidParameterValueException`**

One or more parameter values are not valid.

HTTP Status Code: 400

**RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

**ResourceLimitExceededException**

Your resource limits have been exceeded.

HTTP Status Code: 400

**ResourceNotFoundException**

The resource cannot be found.

HTTP Status Code: 400

**ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

**ValidationException**

The provided input is not valid. Try your request again.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateLicenseSpecificationsForResource

Adds or removes the specified license configurations for the specified AWS resource.

You can update the license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and AWS CloudFormation templates, as they send license configurations to the operation that creates the resource.

## Request Syntax

```
{
  "AddLicenseSpecifications": [
    {
      "AmiAssociationScope": "string",
      "LicenseConfigurationArn": "string"
    }
  ],
  "RemoveLicenseSpecifications": [
    {
      "AmiAssociationScope": "string",
      "LicenseConfigurationArn": "string"
    }
  ],
  "ResourceArn": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### AddLicenseSpecifications (p. 149)

ARNs of the license configurations to add.

Type: Array of [LicenseSpecification](#) (p. 189) objects

Required: No

### RemoveLicenseSpecifications (p. 149)

ARNs of the license configurations to remove.

Type: Array of [LicenseSpecification](#) (p. 189) objects

Required: No

### ResourceArn (p. 149)

Amazon Resource Name (ARN) of the AWS resource.

Type: String

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

### **InvalidResourceStateException**

License Manager cannot allocate a license to a resource because of its state.

For example, you cannot allocate a license to an instance in the process of shutting down.

HTTP Status Code: 400

### **LicenseUsageException**

You do not have enough licenses available to support a new resource launch.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)



- [AWS SDK for Ruby V3](#)

# UpdateServiceSettings

Updates License Manager settings for the current Region.

## Request Syntax

```
{  
  "EnableCrossAccountsDiscovery": boolean,  
  "OrganizationConfiguration": {  
    "EnableIntegration": boolean  
  },  
  "S3BucketArn": "string",  
  "SnsTopicArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 209).

The request accepts the following data in JSON format.

### [EnableCrossAccountsDiscovery](#) (p. 152)

Activates cross-account discovery.

Type: Boolean

Required: No

### [OrganizationConfiguration](#) (p. 152)

Enables integration with AWS Organizations for cross-account discovery.

Type: [OrganizationConfiguration](#) (p. 193) object

Required: No

### [S3BucketArn](#) (p. 152)

Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored.

Type: String

Required: No

### [SnsTopicArn](#) (p. 152)

Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.

Type: String

Required: No

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 211\)](#).

### **AccessDeniedException**

Access to resource denied.

HTTP Status Code: 400

### **AuthorizationException**

The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.

HTTP Status Code: 400

### **InvalidParameterValueException**

One or more parameter values are not valid.

HTTP Status Code: 400

### **RateLimitExceededException**

Too many requests have been submitted. Try again after a brief wait.

HTTP Status Code: 400

### **ServerInternalException**

The server experienced an internal error. Try again.

HTTP Status Code: 500

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# Data Types

The AWS License Manager API contains several data types that various actions use. This section describes each data type in detail.

**Note**

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [AutomatedDiscoveryInformation](#) (p. 156)
- [BorrowConfiguration](#) (p. 157)
- [ConsumedLicenseSummary](#) (p. 158)
- [ConsumptionConfiguration](#) (p. 159)
- [DatetimeRange](#) (p. 160)
- [Entitlement](#) (p. 161)
- [EntitlementData](#) (p. 163)
- [EntitlementUsage](#) (p. 164)
- [Filter](#) (p. 165)
- [Grant](#) (p. 166)
- [GrantedLicense](#) (p. 169)
- [InventoryFilter](#) (p. 172)
- [Issuer](#) (p. 173)
- [IssuerDetails](#) (p. 174)
- [License](#) (p. 175)
- [LicenseConfiguration](#) (p. 178)
- [LicenseConfigurationAssociation](#) (p. 181)
- [LicenseConfigurationUsage](#) (p. 182)
- [LicenseConversionContext](#) (p. 184)
- [LicenseConversionTask](#) (p. 185)
- [LicenseOperationFailure](#) (p. 187)
- [LicenseSpecification](#) (p. 189)
- [LicenseUsage](#) (p. 190)
- [ManagedResourceSummary](#) (p. 191)
- [Metadata](#) (p. 192)
- [OrganizationConfiguration](#) (p. 193)
- [ProductInformation](#) (p. 194)
- [ProductInformationFilter](#) (p. 196)
- [ProvisionalConfiguration](#) (p. 197)
- [ReceivedMetadata](#) (p. 198)
- [ReportContext](#) (p. 199)
- [ReportFrequency](#) (p. 200)
- [ReportGenerator](#) (p. 201)
- [ResourceInventory](#) (p. 203)
- [S3Location](#) (p. 205)

- [Tag](#) (p. 206)
- [TokenData](#) (p. 207)

# AutomatedDiscoveryInformation

Describes automated discovery.

## Contents

### **LastRunTime**

Time that automated discovery last ran.

Type: Timestamp

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# BorrowConfiguration

Details about a borrow configuration.

## Contents

### **AllowEarlyCheckIn**

Indicates whether early check-ins are allowed.

Type: Boolean

Required: Yes

### **MaxTimeToLiveInMinutes**

Maximum time for the borrow configuration, in minutes.

Type: Integer

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConsumedLicenseSummary

Details about license consumption.

## Contents

### ConsumedLicenses

Number of licenses consumed by the resource.

Type: Long

Required: No

### ResourceType

Resource type of the resource consuming a license.

Type: String

Valid Values: `EC2_INSTANCE` | `EC2_HOST` | `EC2_AMI` | `RDS` | `SYSTEMS_MANAGER_MANAGED_INSTANCE`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ConsumptionConfiguration

Details about a consumption configuration.

## Contents

### **BorrowConfiguration**

Details about a borrow configuration.

Type: [BorrowConfiguration](#) (p. 157) object

Required: No

### **ProvisionalConfiguration**

Details about a provisional configuration.

Type: [ProvisionalConfiguration](#) (p. 197) object

Required: No

### **RenewType**

Renewal frequency.

Type: String

Valid Values: `None` | `Weekly` | `Monthly`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DatetimeRange

Describes a time range, in ISO8601-UTC format.

## Contents

### Begin

Start of the time range.

Type: String

Length Constraints: Maximum length of 50.

Pattern: `^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|1-2[0-9])T(2[0-3]|1[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\.[0-9]+)?(Z|[+-](?:2[0-3]|1[0-1][0-9]):[0-5][0-9])+$`

Required: Yes

### End

End of the time range.

Type: String

Length Constraints: Maximum length of 50.

Pattern: `^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|1-2[0-9])T(2[0-3]|1[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\.[0-9]+)?(Z|[+-](?:2[0-3]|1[0-1][0-9]):[0-5][0-9])+$`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Entitlement

Describes a resource entitled for use with a license.

## Contents

### **AllowCheckIn**

Indicates whether check-ins are allowed.

Type: Boolean

Required: No

### **MaxCount**

Maximum entitlement count. Use if the unit is not None.

Type: Long

Required: No

### **Name**

Entitlement name.

Type: String

Required: Yes

### **Overage**

Indicates whether overages are allowed.

Type: Boolean

Required: No

### **Unit**

Entitlement unit.

Type: String

Valid Values: Count | None | Seconds | Microseconds | Milliseconds | Bytes | Kilobytes | Megabytes | Gigabytes | Terabytes | Bits | Kilobits | Megabits | Gigabits | Terabits | Percent | Bytes/Second | Kilobytes/Second | Megabytes/Second | Gigabytes/Second | Terabytes/Second | Bits/Second | Kilobits/Second | Megabits/Second | Gigabits/Second | Terabits/Second | Count/Second

Required: Yes

### **Value**

Entitlement resource. Use only if the unit is None.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# EntitlementData

Data associated with an entitlement resource.

## Contents

### Name

Entitlement data name.

Type: String

Required: Yes

### Unit

Entitlement data unit.

Type: String

Valid Values: Count | None | Seconds | Microseconds | Milliseconds | Bytes | Kilobytes | Megabytes | Gigabytes | Terabytes | Bits | Kilobits | Megabits | Gigabits | Terabits | Percent | Bytes/Second | Kilobytes/Second | Megabytes/Second | Gigabytes/Second | Terabytes/Second | Bits/Second | Kilobits/Second | Megabits/Second | Gigabits/Second | Terabits/Second | Count/Second

Required: Yes

### Value

Entitlement data value.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# EntitlementUsage

Usage associated with an entitlement resource.

## Contents

### ConsumedValue

Resource usage consumed.

Type: String

Required: Yes

### MaxCount

Maximum entitlement usage count.

Type: String

Required: No

### Name

Entitlement usage name.

Type: String

Required: Yes

### Unit

Entitlement usage unit.

Type: String

Valid Values: Count | None | Seconds | Microseconds | Milliseconds | Bytes | Kilobytes | Megabytes | Gigabytes | Terabytes | Bits | Kilobits | Megabits | Gigabits | Terabits | Percent | Bytes/Second | Kilobytes/Second | Megabytes/Second | Gigabytes/Second | Terabytes/Second | Bits/Second | Kilobits/Second | Megabits/Second | Gigabits/Second | Terabits/Second | Count/Second

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Filter

A filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.

## Contents

### Name

Name of the filter. Filter names are case-sensitive.

Type: String

Required: No

### Values

Filter values. Filter values are case-sensitive.

Type: Array of strings

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Grant

Describes a grant.

## Contents

### GrantArn

Amazon Resource Name (ARN) of the grant.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+,@.-]{0,1023}$`

Required: Yes

### GrantedOperations

Granted operations.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 7 items.

Valid Values: `CreateGrant` | `CheckoutLicense` | `CheckoutBorrowLicense` | `CheckInLicense` | `ExtendConsumptionLicense` | `ListPurchasedLicenses` | `CreateToken`

Required: Yes

### GranteePrincipalArn

The grantee principal ARN.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+,@.-]{0,1023}$`

Required: Yes

### GrantName

Grant name.

Type: String

Required: Yes

### GrantStatus

Grant status.

Type: String



Valid Values: PENDING\_WORKFLOW | PENDING\_ACCEPT | REJECTED | ACTIVE |  
FAILED\_WORKFLOW | DELETED | PENDING\_DELETE | DISABLED | WORKFLOW\_COMPLETED

Required: Yes

### HomeRegion

Home Region of the grant.

Type: String

Required: Yes

### LicenseArn

License ARN.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:._/+,@.-]{0,1023}$`

Required: Yes

### ParentArn

Parent ARN.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:._/+,@.-]{0,1023}$`

Required: Yes

### StatusReason

Grant status reason.

Type: String

Length Constraints: Maximum length of 400.

Pattern: `[\s\S]+`

Required: No

### Version

Grant version.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# GrantedLicense

Describes a license that is granted to a grantee.

## Contents

### Beneficiary

Granted license beneficiary.

Type: String

Required: No

### ConsumptionConfiguration

Configuration for consumption of the license.

Type: [ConsumptionConfiguration](#) (p. 159) object

Required: No

### CreateTime

Creation time of the granted license.

Type: String

Length Constraints: Maximum length of 50.

Pattern: `^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|1-2[0-9])T(2[0-3]|0[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\.[0-9]+)?(Z|[+-](?:2[0-3]|0[0-1][0-9]):[0-5][0-9])+$`

Required: No

### Entitlements

License entitlements.

Type: Array of [Entitlement](#) (p. 161) objects

Required: No

### HomeRegion

Home Region of the granted license.

Type: String

Required: No

### Issuer

Granted license issuer.

Type: [IssuerDetails](#) (p. 174) object

Required: No

### LicenseArn

Amazon Resource Name (ARN) of the license.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/_+=, @. -]{0,1023}$`

Required: No

#### **LicenseMetadata**

Granted license metadata.

Type: Array of [Metadata](#) (p. 192) objects

Required: No

#### **LicenseName**

License name.

Type: String

Required: No

#### **ProductName**

Product name.

Type: String

Required: No

#### **ProductSKU**

Product SKU.

Type: String

Required: No

#### **ReceivedMetadata**

Granted license received metadata.

Type: [ReceivedMetadata](#) (p. 198) object

Required: No

#### **Status**

Granted license status.

Type: String

Valid Values: AVAILABLE | PENDING\_AVAILABLE | DEACTIVATED | SUSPENDED | EXPIRED  
| PENDING\_DELETE | DELETED

Required: No

#### **Validity**

Date and time range during which the granted license is valid, in ISO8601-UTC format.

Type: [DatetimeRange](#) (p. 160) object

Required: No

**Version**

Version of the granted license.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# InventoryFilter

An inventory filter.

## Contents

### Condition

Condition of the filter.

Type: String

Valid Values: `EQUALS` | `NOT_EQUALS` | `BEGINS_WITH` | `CONTAINS`

Required: Yes

### Name

Name of the filter.

Type: String

Required: Yes

### Value

Value of the filter.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Issuer

Details about the issuer of a license.

## Contents

### Name

Issuer name.

Type: String

Required: Yes

### SignKey

Asymmetric KMS key from AWS Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# IssuerDetails

Details associated with the issuer of a license.

## Contents

### **KeyFingerprint**

Issuer key fingerprint.

Type: String

Required: No

### **Name**

Issuer name.

Type: String

Required: No

### **SignKey**

Asymmetric KMS key from AWS Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# License

Software license that is managed in AWS License Manager.

## Contents

### Beneficiary

License beneficiary.

Type: String

Required: No

### ConsumptionConfiguration

Configuration for consumption of the license.

Type: [ConsumptionConfiguration](#) (p. 159) object

Required: No

### CreateTime

License creation time.

Type: String

Length Constraints: Maximum length of 50.

Pattern: `^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|1-2[0-9])T(2[0-3]|0[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\.[0-9]+)?(Z|[+-](?:2[0-3]|0[0-1][0-9]):[0-5][0-9])+$`

Required: No

### Entitlements

License entitlements.

Type: Array of [Entitlement](#) (p. 161) objects

Required: No

### HomeRegion

Home Region of the license.

Type: String

Required: No

### Issuer

License issuer.

Type: [IssuerDetails](#) (p. 174) object

Required: No

### LicenseArn

Amazon Resource Name (ARN) of the license.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+,@.-]{0,1023}$`

Required: No

#### **LicenseMetadata**

License metadata.

Type: Array of [Metadata](#) (p. 192) objects

Required: No

#### **LicenseName**

License name.

Type: String

Required: No

#### **ProductName**

Product name.

Type: String

Required: No

#### **ProductSKU**

Product SKU.

Type: String

Required: No

#### **Status**

License status.

Type: String

Valid Values: AVAILABLE | PENDING\_AVAILABLE | DEACTIVATED | SUSPENDED | EXPIRED  
| PENDING\_DELETE | DELETED

Required: No

#### **Validity**

Date and time range during which the license is valid, in ISO8601-UTC format.

Type: [DatetimeRange](#) (p. 160) object

Required: No

#### **Version**

License version.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# LicenseConfiguration

A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and used.

## Contents

### **AutomatedDiscoveryInformation**

Automated discovery information.

Type: [AutomatedDiscoveryInformation](#) (p. 156) object

Required: No

### **ConsumedLicenses**

Number of licenses consumed.

Type: Long

Required: No

### **ConsumedLicenseSummaryList**

Summaries for licenses consumed by various resources.

Type: Array of [ConsumedLicenseSummary](#) (p. 158) objects

Required: No

### **Description**

Description of the license configuration.

Type: String

Required: No

### **DisassociateWhenNotFound**

When true, disassociates a resource when software is uninstalled.

Type: Boolean

Required: No

### **LicenseConfigurationArn**

Amazon Resource Name (ARN) of the license configuration.

Type: String

Required: No

### **LicenseConfigurationId**

Unique ID of the license configuration.

Type: String

Required: No

**LicenseCount**

Number of licenses managed by the license configuration.

Type: Long

Required: No

**LicenseCountHardLimit**

Number of available licenses as a hard limit.

Type: Boolean

Required: No

**LicenseCountingType**

Dimension to use to track the license inventory.

Type: String

Valid Values: `vCPU` | `Instance` | `Core` | `Socket`

Required: No

**LicenseRules**

License rules.

Type: Array of strings

Required: No

**ManagedResourceSummaryList**

Summaries for managed resources.

Type: Array of [ManagedResourceSummary](#) (p. 191) objects

Required: No

**Name**

Name of the license configuration.

Type: String

Required: No

**OwnerAccountId**

Account ID of the license configuration's owner.

Type: String

Required: No

**ProductInformationList**

Product information.

Type: Array of [ProductInformation](#) (p. 194) objects

Required: No

### Status

Status of the license configuration.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# LicenseConfigurationAssociation

Describes an association with a license configuration.

## Contents

### **AmiAssociationScope**

Scope of AMI associations. The possible value is `cross-account`.

Type: String

Required: No

### **AssociationTime**

Time when the license configuration was associated with the resource.

Type: Timestamp

Required: No

### **ResourceArn**

Amazon Resource Name (ARN) of the resource.

Type: String

Required: No

### **ResourceOwnerId**

ID of the AWS account that owns the resource consuming licenses.

Type: String

Required: No

### **ResourceType**

Type of server resource.

Type: String

Valid Values: `EC2_INSTANCE` | `EC2_HOST` | `EC2_AMI` | `RDS` | `SYSTEMS_MANAGER_MANAGED_INSTANCE`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# LicenseConfigurationUsage

Details about the usage of a resource associated with a license configuration.

## Contents

### **AssociationTime**

Time when the license configuration was initially associated with the resource.

Type: Timestamp

Required: No

### **ConsumedLicenses**

Number of licenses consumed by the resource.

Type: Long

Required: No

### **ResourceArn**

Amazon Resource Name (ARN) of the resource.

Type: String

Required: No

### **ResourceOwnerId**

ID of the account that owns the resource.

Type: String

Required: No

### **ResourceStatus**

Status of the resource.

Type: String

Required: No

### **ResourceType**

Type of resource.

Type: String

Valid Values: `EC2_INSTANCE` | `EC2_HOST` | `EC2_AMI` | `RDS` | `SYSTEMS_MANAGER_MANAGED_INSTANCE`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)



- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# LicenseConversionContext

Information about a license type conversion task.

## Contents

### UsageOperation

The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see [Sample data: usage operation by platform](#)

Type: String

Length Constraints: Maximum length of 50.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# LicenseConversionTask

Information about a license type conversion task.

## Contents

### **DestinationLicenseContext**

Information about the license type this conversion task converted to.

Type: [LicenseConversionContext](#) (p. 184) object

Required: No

### **EndTime**

The time the conversion task was completed.

Type: Timestamp

Required: No

### **LicenseConversionTaskId**

The ID of the license type conversion task.

Type: String

Length Constraints: Maximum length of 50.

Pattern: `^lct-[a-zA-Z0-9]*`

Required: No

### **LicenseConversionTime**

The time the usage operation value of the resource was changed.

Type: Timestamp

Required: No

### **ResourceArn**

The Amazon Resource Name (ARN) of the resource associated with the license type conversion task.

Type: String

Required: No

### **SourceLicenseContext**

Information about the license type this conversion task converted from.

Type: [LicenseConversionContext](#) (p. 184) object

Required: No

### **StartTime**

The time the conversion task was started at.

Type: Timestamp

Required: No

**Status**

The status of the conversion task.

Type: String

Valid Values: `IN_PROGRESS` | `SUCCEEDED` | `FAILED`

Required: No

**StatusMessage**

The status message for the conversion task.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# LicenseOperationFailure

Describes the failure of a license operation.

## Contents

### **ErrorMessage**

Error message.

Type: String

Required: No

### **FailureTime**

Failure time.

Type: Timestamp

Required: No

### **MetadataList**

Reserved.

Type: Array of [Metadata](#) (p. 192) objects

Required: No

### **OperationName**

Name of the operation.

Type: String

Required: No

### **OperationRequestedBy**

The requester is "License Manager Automated Discovery".

Type: String

Required: No

### **ResourceArn**

Amazon Resource Name (ARN) of the resource.

Type: String

Required: No

### **ResourceOwnerId**

ID of the AWS account that owns the resource.

Type: String

Required: No

### **ResourceType**

Resource type.

Type: String

Valid Values: EC2\_INSTANCE | EC2\_HOST | EC2\_AMI | RDS |  
SYSTEMS\_MANAGER\_MANAGED\_INSTANCE

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# LicenseSpecification

Details for associating a license configuration with a resource.

## Contents

### **AmiAssociationScope**

Scope of AMI associations. The possible value is `cross-account`.

Type: String

Required: No

### **LicenseConfigurationArn**

Amazon Resource Name (ARN) of the license configuration.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# LicenseUsage

Describes the entitlement usage associated with a license.

## Contents

### EntitlementUsages

License entitlement usages.

Type: Array of [EntitlementUsage](#) (p. 164) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ManagedResourceSummary

Summary information about a managed resource.

## Contents

### AssociationCount

Number of resources associated with licenses.

Type: Long

Required: No

### ResourceType

Type of resource associated with a license.

Type: String

Valid Values: `EC2_INSTANCE` | `EC2_HOST` | `EC2_AMI` | `RDS` | `SYSTEMS_MANAGER_MANAGED_INSTANCE`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Metadata

Describes key/value pairs.

## Contents

### **Name**

The key name.

Type: String

Required: No

### **Value**

The value.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# OrganizationConfiguration

Configuration information for AWS Organizations.

## Contents

### **EnableIntegration**

Enables AWS Organizations integration.

Type: Boolean

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProductInformation

Describes product information for a license configuration.

## Contents

### ProductInformationFilterList

A Product information filter consists of a `ProductInformationFilterComparator` which is a logical operator, a `ProductInformationFilterName` which specifies the type of filter being declared, and a `ProductInformationFilterValue` that specifies the value to filter on.

Accepted values for `ProductInformationFilterName` are listed here along with descriptions and valid options for `ProductInformationFilterComparator`.

The following filters and are supported when the resource type is `SSM_MANAGED`:

- `Application Name` - The name of the application. Logical operator is `EQUALS`.
- `Application Publisher` - The publisher of the application. Logical operator is `EQUALS`.
- `Application Version` - The version of the application. Logical operator is `EQUALS`.
- `Platform Name` - The name of the platform. Logical operator is `EQUALS`.
- `Platform Type` - The platform type. Logical operator is `EQUALS`.
- `Tag:key` - The key of a tag attached to an AWS resource you wish to exclude from automated discovery. Logical operator is `NOT_EQUALS`. The key for your tag must be appended to `Tag`: following the example: `Tag:name-of-your-key`. `ProductInformationFilterValue` is optional if you are not using values for the key.
- `AccountId` - The 12-digit ID of an AWS account you wish to exclude from automated discovery. Logical operator is `NOT_EQUALS`.
- `License Included` - The type of license included. Logical operators are `EQUALS` and `NOT_EQUALS`. Possible values are: `sql-server-enterprise` | `sql-server-standard` | `sql-server-web` | `windows-server-datacenter`.

The following filters and logical operators are supported when the resource type is `RDS`:

- `Engine Edition` - The edition of the database engine. Logical operator is `EQUALS`. Possible values are: `oracle-ee` | `oracle-se` | `oracle-se1` | `oracle-se2`.
- `License Pack` - The license pack. Logical operator is `EQUALS`. Possible values are: `data guard` | `diagnostic pack sqlt` | `tuning pack sqlt` | `ols` | `olap`.

Type: Array of [ProductInformationFilter](#) (p. 196) objects

Required: Yes

### ResourceType

Resource type. The possible values are `SSM_MANAGED` | `RDS`.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProductInformationFilter

Describes product information filters.

## Contents

### **ProductInformationFilterComparator**

Logical operator.

Type: String

Required: Yes

### **ProductInformationFilterName**

Filter name.

Type: String

Required: Yes

### **ProductInformationFilterValue**

Filter value.

Type: Array of strings

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProvisionalConfiguration

Details about a provisional configuration.

## Contents

### **MaxTimeToLiveInMinutes**

Maximum time for the provisional configuration, in minutes.

Type: Integer

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ReceivedMetadata

Metadata associated with received licenses and grants.

## Contents

### AllowedOperations

Allowed operations.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 7 items.

Valid Values: `CreateGrant` | `CheckoutLicense` | `CheckoutBorrowLicense` | `CheckInLicense` | `ExtendConsumptionLicense` | `ListPurchasedLicenses` | `CreateToken`

Required: No

### ReceivedStatus

Received status.

Type: String

Valid Values: `PENDING_WORKFLOW` | `PENDING_ACCEPT` | `REJECTED` | `ACTIVE` | `FAILED_WORKFLOW` | `DELETED` | `DISABLED` | `WORKFLOW_COMPLETED`

Required: No

### ReceivedStatusReason

Received status reason.

Type: String

Length Constraints: Maximum length of 400.

Pattern: `[\s\S]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ReportContext

Details of the license configuration that this generator reports on.

## Contents

### **licenseConfigurationArns**

Amazon Resource Name (ARN) of the license configuration that this generator reports on.

Type: Array of strings

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_.-]{0,1023}$`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ReportFrequency

Details about how frequently reports are generated.

## Contents

### **period**

Time period between each report. The period can be daily, weekly, or monthly.

Type: String

Valid Values: DAY | WEEK | MONTH

Required: No

### **value**

Number of times within the frequency period that a report is generated. The only supported value is 1.

Type: Integer

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ReportGenerator

Describe the details of a report generator.

## Contents

### CreateTime

Time the report was created.

Type: String

Required: No

### Description

Description of the report generator.

Type: String

Required: No

### LastReportGenerationTime

Time the last report was generated at.

Type: String

Required: No

### LastRunFailureReason

Failure message for the last report generation attempt.

Type: String

Required: No

### LastRunStatus

Status of the last report generation attempt.

Type: String

Required: No

### LicenseManagerReportGeneratorArn

Amazon Resource Name (ARN) of the report generator.

Type: String

Required: No

### ReportContext

License configuration type for this generator.

Type: [ReportContext](#) (p. 199) object

Required: No

### ReportCreatorAccount

The AWS account ID used to create the report generator.

Type: String

Required: No

**ReportFrequency**

Details about how frequently reports are generated.

Type: [ReportFrequency](#) (p. 200) object

Required: No

**ReportGeneratorName**

Name of the report generator.

Type: String

Required: No

**ReportType**

Type of reports that are generated.

Type: Array of strings

Valid Values: `LicenseConfigurationSummaryReport` |  
`LicenseConfigurationUsageReport`

Required: No

**S3Location**

Details of the S3 bucket that report generator reports are published to.

Type: [S3Location](#) (p. 205) object

Required: No

**Tags**

Tags associated with the report generator.

Type: Array of [Tag](#) (p. 206) objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResourceInventory

Details about a resource.

## Contents

### **Platform**

Platform of the resource.

Type: String

Required: No

### **PlatformVersion**

Platform version of the resource in the inventory.

Type: String

Required: No

### **ResourceArn**

Amazon Resource Name (ARN) of the resource.

Type: String

Required: No

### **ResourceId**

ID of the resource.

Type: String

Required: No

### **ResourceOwningAccountId**

ID of the account that owns the resource.

Type: String

Required: No

### **ResourceType**

Type of resource.

Type: String

Valid Values: `EC2_INSTANCE` | `EC2_HOST` | `EC2_AMI` | `RDS` | `SYSTEMS_MANAGER_MANAGED_INSTANCE`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# S3Location

Details of the S3 bucket that report generator reports are published to.

## Contents

### **bucket**

Name of the S3 bucket reports are published to.

Type: String

Required: No

### **keyPrefix**

Prefix of the S3 bucket reports are published to.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Tag

Details about a tag for a license configuration.

## Contents

### Key

Tag key.

Type: String

Required: No

### Value

Tag value.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# TokenData

Describes a token.

## Contents

### ExpirationTime

Token expiration time, in ISO8601-UTC format.

Type: String

Length Constraints: Maximum length of 50.

Pattern: `^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|1-2[0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.([0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9]))+$`

Required: No

### LicenseArn

Amazon Resource Name (ARN) of the license.

Type: String

Required: No

### RoleArns

Amazon Resource Names (ARN) of the roles included in the token.

Type: Array of strings

Length Constraints: Maximum length of 2048.

Pattern: `^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:._/+=,@.-]{0,1023}$`

Required: No

### Status

Token status. The possible values are `AVAILABLE` and `DELETED`.

Type: String

Required: No

### TokenId

Token ID.

Type: String

Required: No

### TokenProperties

Data specified by the caller.

Type: Array of strings

Array Members: Maximum number of 3 items.

Required: No

**TokenType**

Type of token generated. The supported value is `REFRESH_TOKEN`.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signature Version 4 Signing Process](#) in the *Amazon Web Services General Reference*.

## Action

The action to be performed.

Type: string

Required: Yes

## Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

## X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

## X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4\_request"). The value is expressed in the following format: `access_key/YYYYMMDD/region/service/aws4_request`.

For more information, see [Task 2: Create a String to Sign for Signature Version 4](#) in the *Amazon Web Services General Reference*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

## X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'THHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is

not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

Type: string

Required: Conditional

**X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS Security Token Service, go to [AWS Services That Work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from the AWS Security Token Service, you must include the security token.

Type: string

Required: Conditional

**X-Amz-Signature**

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

**X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Task 1: Create a Canonical Request For Signature Version 4](#) in the *Amazon Web Services General Reference*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

# Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

**IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

**InternalFailure**

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

**InvalidAction**

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 400

**InvalidClientTokenId**

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

**InvalidParameterCombination**

Parameters that must not be used together were used together.

HTTP Status Code: 400

**InvalidParameterValue**

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

**InvalidQueryParameter**

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

**MalformedQueryString**

The query string contains a syntax error.

HTTP Status Code: 404

**MissingAction**

The request is missing an action or a required parameter.

HTTP Status Code: 400

**MissingAuthenticationToken**

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

**MissingParameter**

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

**NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 400

**OptInRequired**

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

**RequestExpired**

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

**ServiceUnavailable**

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

**ValidationError**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400