



API Reference

License Manager User Subscriptions



API Version 2018-05-10

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License Manager User Subscriptions: API Reference

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Table of Contents

Welcome	1
Actions	2
AssociateUser	3
Request Syntax	3
URI Request Parameters	3
Request Body	3
Response Syntax	4
Response Elements	5
Errors	5
See Also	6
CreateLicenseServerEndpoint	8
Request Syntax	8
URI Request Parameters	8
Request Body	8
Response Syntax	9
Response Elements	9
Errors	10
See Also	11
DeleteLicenseServerEndpoint	12
Request Syntax	12
URI Request Parameters	12
Request Body	12
Response Syntax	13
Response Elements	13
Errors	13
See Also	14
DeregisterIdentityProvider	16
Request Syntax	16
URI Request Parameters	16
Request Body	16
Response Syntax	17
Response Elements	17
Errors	18
See Also	19

DisassociateUser	20
Request Syntax	20
URI Request Parameters	20
Request Body	20
Response Syntax	21
Response Elements	22
Errors	22
See Also	23
ListIdentityProviders	24
Request Syntax	24
URI Request Parameters	24
Request Body	24
Response Syntax	25
Response Elements	25
Errors	26
See Also	27
ListInstances	28
Request Syntax	28
URI Request Parameters	28
Request Body	28
Response Syntax	29
Response Elements	29
Errors	30
See Also	31
ListLicenseServerEndpoints	32
Request Syntax	32
URI Request Parameters	32
Request Body	32
Response Syntax	33
Response Elements	34
Errors	34
See Also	35
ListProductSubscriptions	36
Request Syntax	36
URI Request Parameters	36
Request Body	36

Response Syntax	37
Response Elements	38
Errors	38
See Also	39
ListTagsForResource	41
Request Syntax	41
URI Request Parameters	41
Request Body	41
Response Syntax	41
Response Elements	41
Errors	42
See Also	42
ListUserAssociations	44
Request Syntax	44
URI Request Parameters	44
Request Body	44
Response Syntax	45
Response Elements	46
Errors	46
See Also	47
RegisterIdentityProvider	49
Request Syntax	49
URI Request Parameters	49
Request Body	49
Response Syntax	50
Response Elements	51
Errors	51
See Also	52
StartProductSubscription	53
Request Syntax	53
URI Request Parameters	53
Request Body	53
Response Syntax	54
Response Elements	55
Errors	55
See Also	56

StopProductSubscription	58
Request Syntax	58
URI Request Parameters	58
Request Body	58
Response Syntax	59
Response Elements	60
Errors	60
See Also	61
TagResource	63
Request Syntax	63
URI Request Parameters	63
Request Body	63
Response Syntax	64
Response Elements	64
Errors	64
See Also	64
UntagResource	66
Request Syntax	66
URI Request Parameters	66
Request Body	66
Response Syntax	66
Response Elements	66
Errors	67
See Also	67
UpdateIdentityProviderSettings	68
Request Syntax	68
URI Request Parameters	68
Request Body	68
Response Syntax	69
Response Elements	70
Errors	70
See Also	71
Data Types	72
ActiveDirectoryIdentityProvider	73
Contents	73
See Also	73

ActiveDirectorySettings	75
Contents	75
See Also	76
CredentialsProvider	77
Contents	77
See Also	77
DomainNetworkSettings	78
Contents	78
See Also	78
Filter	79
Contents	79
See Also	79
IdentityProvider	80
Contents	80
See Also	80
IdentityProviderSummary	81
Contents	81
See Also	82
InstanceSummary	83
Contents	83
See Also	84
InstanceUserSummary	85
Contents	85
See Also	86
LicenseServer	88
Contents	88
See Also	88
LicenseServerEndpoint	90
Contents	90
See Also	91
LicenseServerSettings	93
Contents	93
See Also	93
ProductUserSummary	94
Contents	94
See Also	95

RdsSalSettings	97
Contents	97
See Also	97
SecretsManagerCredentialsProvider	98
Contents	98
See Also	98
ServerEndpoint	99
Contents	99
See Also	99
ServerSettings	100
Contents	100
See Also	100
Settings	101
Contents	101
See Also	101
UpdateSettings	103
Contents	103
See Also	104
Common Parameters	105
Common Error Types	108

Welcome

With AWS License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances.

This document was last published on April 10, 2026.

Actions

The following actions are supported:

- [AssociateUser](#)
- [CreateLicenseServerEndpoint](#)
- [DeleteLicenseServerEndpoint](#)
- [DeregisterIdentityProvider](#)
- [DisassociateUser](#)
- [ListIdentityProviders](#)
- [ListInstances](#)
- [ListLicenseServerEndpoints](#)
- [ListProductSubscriptions](#)
- [ListTagsForResource](#)
- [ListUserAssociations](#)
- [RegisterIdentityProvider](#)
- [StartProductSubscription](#)
- [StopProductSubscription](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateIdentityProviderSettings](#)

AssociateUser

Associates the user to an EC2 instance to utilize user-based subscriptions.

Note

Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as **Pending** billing status) in AWS Billing. For more information, see [Viewing your monthly charges](#) in the *AWS Billing User Guide*.

Request Syntax

```
POST /user/AssociateUser HTTP/1.1
Content-type: application/json
```

```
{
  "Domain": "string",
  "IdentityProvider": { ... },
  "InstanceId": "string",
  "Tags": {
    "string" : "string"
  },
  "Username": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Domain

The domain name of the Active Directory that contains information for the user to associate.

Type: String

Required: No

IdentityProvider

The identity provider for the user.

Type: [IdentityProvider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

InstanceId

The ID of the EC2 instance that provides the user-based subscription.

Type: String

Required: Yes

Tags

The tags that apply for the user association.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Required: No

Username

The user name from the identity provider.

Type: String

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "InstanceUserSummary": {
```

```
"AssociationDate": "string",
"DisassociationDate": "string",
"Domain": "string",
"IdentityProvider": { ... },
"InstanceId": "string",
"InstanceUserArn": "string",
"Status": "string",
"StatusMessage": "string",
"Username": "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.

InstanceUserSummary

Metadata that describes the associate user operation.

Type: [InstanceUserSummary](#) object

Errors

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

AccessDeniedException

You don't have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 500

InternalServerErrorException

An exception occurred with the service.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request failed because a service quota is exceeded.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 400

ValidationException

A parameter is not valid.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateLicenseServerEndpoint

Creates a network endpoint for the Remote Desktop Services (RDS) license server.

Request Syntax

```
POST /license-server/CreateLicenseServerEndpoint HTTP/1.1
Content-type: application/json

{
  "IdentityProviderArn": "string",
  "LicenseServerSettings": {
    "ServerSettings": { ... },
    "ServerType": "string"
  },
  "Tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

IdentityProviderArn

The Amazon Resource Name (ARN) that identifies the IdentityProvider resource that contains details about a registered identity provider. In the case of Active Directory, that can be a self-managed Active Directory or an AWS Managed Active Directory that contains user identity details.

Type: String

Pattern: arn:[a-z0-9-\.]^{1,63}:[a-z0-9-\.]^{1,63}:[a-z0-9-\.]^{1,63}:[a-z0-9-\.]^{1,63}:[a-zA-Z0-9-\.]^{1,510}/[a-zA-Z0-9-\.]^{1,510}

Required: Yes

LicenseServerSettings

The `LicenseServerSettings` resource to create for the endpoint. The settings include the type of license server and the AWS Secrets Manager secret that enables administrators to add or remove users associated with the license server.

Type: [LicenseServerSettings](#) object

Required: Yes

Tags

The tags that apply for the license server endpoint.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "IdentityProviderArn": "string",
  "LicenseServerEndpointArn": "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.

IdentityProviderArn

The Amazon Resource Name (ARN) of the identity provider specified in the request.

Type: String

Pattern: `arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-zA-Z0-9-\.]{1,510}/[a-zA-Z0-9-\.]{1,510}`

LicenseServerEndpointArn

The ARN of the LicenseServerEndpoint resource.

Type: String

Pattern: `arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-zA-Z0-9-\.]{1,510}/[a-zA-Z0-9-\.]{1,510}`

Errors

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

AccessDeniedException

You don't have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 500

InternalServerError

An exception occurred with the service.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request failed because a service quota is exceeded.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 400

ValidationException

A parameter is not valid.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteLicenseServerEndpoint

Deletes a LicenseServerEndpoint resource.

Request Syntax

```
POST /license-server/DeleteLicenseServerEndpoint HTTP/1.1
Content-type: application/json
```

```
{
  "LicenseServerEndpointArn": "string",
  "ServerType": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

LicenseServerEndpointArn

The Amazon Resource Name (ARN) that identifies the LicenseServerEndpoint resource to delete.

Type: String

Pattern: arn:[a-z0-9-\.]^{1,63}:[a-z0-9-\.]^{1,63}:[a-z0-9-\.]^{1,63}:[a-z0-9-\.]^{1,63}:[a-zA-Z0-9-\.]^{1,510}/[a-zA-Z0-9-\.]^{1,510}

Required: Yes

ServerType

The type of License Server that the delete request refers to.

Type: String

Valid Values: RDS_SAL

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "LicenseServerEndpoint": {
    "CreationTime": number,
    "IdentityProviderArn": "string",
    "LicenseServerEndpointArn": "string",
    "LicenseServerEndpointId": "string",
    "LicenseServerEndpointProvisioningStatus": "string",
    "LicenseServers": [
      {
        "HealthStatus": "string",
        "Ipv4Address": "string",
        "ProvisioningStatus": "string"
      }
    ],
    "ServerEndpoint": {
      "Endpoint": "string"
    },
    "ServerType": "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.

LicenseServerEndpoint

Shows details from the LicenseServerEndpoint resource that was deleted.

Type: [LicenseServerEndpoint](#) object

Errors

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

AccessDeniedException

You don't have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 500

InternalServerErrorException

An exception occurred with the service.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request failed because a service quota is exceeded.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 400

ValidationException

A parameter is not valid.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeregisterIdentityProvider

Deregisters the Active Directory identity provider from License Manager user-based subscriptions.

Request Syntax

```
POST /identity-provider/DeregisterIdentityProvider HTTP/1.1
Content-type: application/json
```

```
{
  "IdentityProvider": { ... },
  "IdentityProviderArn": "string",
  "Product": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

IdentityProvider

An object that specifies details for the Active Directory identity provider.

Type: [IdentityProvider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

IdentityProviderArn

The Amazon Resource Name (ARN) that identifies the identity provider to deregister.

Type: String

Pattern: arn:[a-z0-9-\.]^{1,63}:[a-z0-9-\.]^{1,63}:[a-z0-9-\.]^{1,63}:[a-z0-9-\.]^{1,63}:[a-zA-Z0-9-\.]^{1,510}/[a-zA-Z0-9-\.]^{1,510}

Required: No

Product

The name of the user-based subscription product.

Valid values: VISUAL_STUDIO_ENTERPRISE | VISUAL_STUDIO_PROFESSIONAL | OFFICE_PROFESSIONAL_PLUS | REMOTE_DESKTOP_SERVICES

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "IdentityProviderSummary": {
    "FailureMessage": "string",
    "IdentityProvider": { ... },
    "IdentityProviderArn": "string",
    "Product": "string",
    "Settings": {
      "SecurityGroupId": "string",
      "Subnets": [ "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.

IdentityProviderSummary

Metadata that describes the results of an identity provider operation.

Type: IdentityProviderSummary object

Errors

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

AccessDeniedException

You don't have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 500

InternalServerErrorException

An exception occurred with the service.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request failed because a service quota is exceeded.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 400

ValidationException

A parameter is not valid.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DisassociateUser

Disassociates the user from an EC2 instance providing user-based subscriptions.

Request Syntax

```
POST /user/DisassociateUser HTTP/1.1
Content-type: application/json
```

```
{
  "Domain": "string",
  "IdentityProvider": { ... },
  "InstanceId": "string",
  "InstanceUserArn": "string",
  "Username": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Domain

The domain name of the Active Directory that contains information for the user to disassociate.

Type: String

Required: No

IdentityProvider

An object that specifies details for the Active Directory identity provider.

Type: [IdentityProvider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

InstanceId

The ID of the EC2 instance which provides user-based subscriptions.

Type: String

Required: No

InstanceUserArn

The Amazon Resource Name (ARN) of the user to disassociate from the EC2 instance.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{1,63\}:[a-zA-Z0-9-\.]\{1,510\}/[a-zA-Z0-9-\.]\{1,510\}`

Required: No

Username

The user name from the Active Directory identity provider for the user.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "InstanceUserSummary": {
    "AssociationDate": "string",
    "DisassociationDate": "string",
    "Domain": "string",
    "IdentityProvider": { ... },
    "InstanceId": "string",
    "InstanceUserArn": "string",
    "Status": "string",
    "StatusMessage": "string",
    "Username": "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.

InstanceUserSummary

Metadata that describes the associate user operation.

Type: [InstanceUserSummary](#) object

Errors

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

AccessDeniedException

You don't have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 500

InternalServerErrorException

An exception occurred with the service.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request failed because a service quota is exceeded.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 400

ValidationException

A parameter is not valid.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListIdentityProviders

Lists the Active Directory identity providers for user-based subscriptions.

Request Syntax

```
POST /identity-provider/ListIdentityProviders HTTP/1.1
Content-type: application/json
```

```
{
  "Filters": [
    {
      "Attribute": "string",
      "Operation": "string",
      "Value": "string"
    }
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Filters

You can use the following filters to streamline results:

- Product
- DirectoryId

Type: Array of [Filter](#) objects

Required: No

MaxResults

The maximum number of results to return from a single request.

Type: Integer

Required: No

NextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "IdentityProviderSummaries": [
    {
      "FailureMessage": "string",
      "IdentityProvider": { ... },
      "IdentityProviderArn": "string",
      "Product": "string",
      "Settings": {
        "SecurityGroupId": "string",
        "Subnets": [ "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.

IdentityProviderSummaries

An array of `IdentityProviderSummary` resources that contain details about the Active Directory identity providers that meet the request criteria.

Type: Array of [IdentityProviderSummary](#) objects

NextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Errors

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

AccessDeniedException

You don't have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 500

InternalServerError

An exception occurred with the service.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request failed because a service quota is exceeded.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 400

ValidationException

A parameter is not valid.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListInstances

Lists the EC2 instances providing user-based subscriptions.

Request Syntax

```
POST /instance/ListInstances HTTP/1.1
Content-type: application/json
```

```
{
  "Filters": [
    {
      "Attribute": "string",
      "Operation": "string",
      "Value": "string"
    }
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Filters

You can use the following filters to streamline results:

- Status
- Instanceld

Type: Array of [Filter](#) objects

Required: No

MaxResults

The maximum number of results to return from a single request.

Type: Integer

Required: No

NextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "InstanceSummaries": [
    {
      "InstanceId": "string",
      "LastStatusCheckDate": "string",
      "Products": [ "string" ],
      "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.

InstanceSummaries

An array of InstanceSummary resources that contain details about the instances that provide user-based subscriptions and also meet the request criteria.

Type: Array of [InstanceSummary](#) objects

NextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Errors

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

AccessDeniedException

You don't have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 500

InternalServerError

An exception occurred with the service.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request failed because a service quota is exceeded.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 400

ValidationException

A parameter is not valid.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListLicenseServerEndpoints

List the Remote Desktop Services (RDS) License Server endpoints

Request Syntax

```
POST /license-server/ListLicenseServerEndpoints HTTP/1.1
Content-type: application/json
```

```
{
  "Filters": [
    {
      "Attribute": "string",
      "Operation": "string",
      "Value": "string"
    }
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Filters

You can use the following filters to streamline results:

- IdentityProviderArn

Type: Array of [Filter](#) objects

Required: No

MaxResults

The maximum number of results to return from a single request.

Type: Integer

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

Required: No

NextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "LicenseServerEndpoints": [
    {
      "CreationTime": number,
      "IdentityProviderArn": "string",
      "LicenseServerEndpointArn": "string",
      "LicenseServerEndpointId": "string",
      "LicenseServerEndpointProvisioningStatus": "string",
      "LicenseServers": [
        {
          "HealthStatus": "string",
          "Ipv4Address": "string",
          "ProvisioningStatus": "string"
        }
      ],
      "ServerEndpoint": {
        "Endpoint": "string"
      },
      "ServerType": "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.

LicenseServerEndpoints

An array of `LicenseServerEndpoint` resources that contain detailed information about the RDS License Servers that meet the request criteria.

Type: Array of [LicenseServerEndpoint](#) objects

NextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Errors

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

AccessDeniedException

You don't have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 500

InternalServerError

An exception occurred with the service.

HTTP Status Code: 500

ServiceQuotaExceededException

The request failed because a service quota is exceeded.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 400

ValidationException

A parameter is not valid.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListProductSubscriptions

Lists the user-based subscription products available from an identity provider.

Request Syntax

```
POST /user/ListProductSubscriptions HTTP/1.1
Content-type: application/json
```

```
{
  "Filters": [
    {
      "Attribute": "string",
      "Operation": "string",
      "Value": "string"
    }
  ],
  "IdentityProvider": { ... },
  "MaxResults": number,
  "NextToken": "string",
  "Product": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Filters

You can use the following filters to streamline results:

- Status
- Username
- Domain

Type: Array of [Filter](#) objects

Required: No

IdentityProvider

An object that specifies details for the identity provider.

Type: [IdentityProvider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

MaxResults

The maximum number of results to return from a single request.

Type: Integer

Required: No

NextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Required: No

Product

The name of the user-based subscription product.

Valid values: VISUAL_STUDIO_ENTERPRISE | VISUAL_STUDIO_PROFESSIONAL | OFFICE_PROFESSIONAL_PLUS | REMOTE_DESKTOP_SERVICES

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "NextToken": "string",
```

```
"ProductUserSummaries": [  
  {  
    "Domain": "string",  
    "IdentityProvider": { ... },  
    "Product": "string",  
    "ProductUserArn": "string",  
    "Status": "string",  
    "StatusMessage": "string",  
    "SubscriptionEndDate": "string",  
    "SubscriptionStartDate": "string",  
    "Username": "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

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

ProductUserSummaries

Metadata that describes the list product subscriptions operation.

Type: Array of [ProductUserSummary](#) objects

Errors

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

AccessDeniedException

You don't have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 500

InternalServerErrorException

An exception occurred with the service.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request failed because a service quota is exceeded.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 400

ValidationException

A parameter is not valid.

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 V2](#)
- [AWS SDK for .NET V4](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTagsForResource

Returns the list of tags for the specified resource.

Request Syntax

```
GET /tags/ResourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ResourceArn

The Amazon Resource Name (ARN) of the resource whose tags you want to retrieve.

Pattern: `arn:([a-z0-9-\.]{1,63}):([a-z0-9-\.]{1,63}):([a-z0-9-\.]{1,63}):([a-z0-9-\.]{1,63}):([a-z0-9-\.]{1,510})/([a-z0-9-\.]{1,510})`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "Tags": {
    "string" : "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

The tags for the specified resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Errors

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

InternalServerErrorException

An exception occurred with the service.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

ValidationException

A parameter is not valid.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

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

ListUserAssociations

Lists user associations for an identity provider.

Request Syntax

```
POST /user/ListUserAssociations HTTP/1.1
Content-type: application/json
```

```
{
  "Filters": [
    {
      "Attribute": "string",
      "Operation": "string",
      "Value": "string"
    }
  ],
  "IdentityProvider": { ... },
  "InstanceId": "string",
  "MaxResults": number,
  "NextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Filters

You can use the following filters to streamline results:

- Status
- Username
- Domain

Type: Array of [Filter](#) objects

Required: No

IdentityProvider

An object that specifies details for the identity provider.

Type: [IdentityProvider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

InstanceId

The ID of the EC2 instance, which provides user-based subscriptions.

Type: String

Required: Yes

MaxResults

The maximum number of results to return from a single request.

Type: Integer

Required: No

NextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "InstanceUserSummaries": [
    {
      "AssociationDate": "string",
```

```
    "DisassociationDate": "string",
    "Domain": "string",
    "IdentityProvider": { ... },
    "InstanceId": "string",
    "InstanceUserArn": "string",
    "Status": "string",
    "StatusMessage": "string",
    "Username": "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.

InstanceUserSummaries

Metadata that describes the list user association operation.

Type: Array of [InstanceUserSummary](#) objects

NextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Errors

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

AccessDeniedException

You don't have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 500

InternalServerErrorException

An exception occurred with the service.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request failed because a service quota is exceeded.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 400

ValidationException

A parameter is not valid.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

RegisterIdentityProvider

Registers an identity provider for user-based subscriptions.

Request Syntax

```
POST /identity-provider/RegisterIdentityProvider HTTP/1.1
Content-type: application/json
```

```
{
  "IdentityProvider": { ... },
  "Product": "string",
  "Settings": {
    "SecurityGroupId": "string",
    "Subnets": [ "string" ]
  },
  "Tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

IdentityProvider

An object that specifies details for the identity provider to register.

Type: [IdentityProvider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Product

The name of the user-based subscription product.

Valid values: VISUAL_STUDIO_ENTERPRISE | VISUAL_STUDIO_PROFESSIONAL | OFFICE_PROFESSIONAL_PLUS | REMOTE_DESKTOP_SERVICES

Type: String

Required: Yes

Settings

The registered identity provider's product related configuration settings such as the subnets to provision VPC endpoints.

Type: [Settings](#) object

Required: No

Tags

The tags that apply to the identity provider's registration.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "IdentityProviderSummary": {
    "FailureMessage": "string",
    "IdentityProvider": { ... },
    "IdentityProviderArn": "string",
    "Product": "string",
    "Settings": {
      "SecurityGroupId": "string",
      "Subnets": [ "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.

IdentityProviderSummary

Metadata that describes the results of an identity provider operation.

Type: [IdentityProviderSummary](#) object

Errors

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

AccessDeniedException

You don't have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 500

InternalServerErrorException

An exception occurred with the service.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request failed because a service quota is exceeded.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 400

UnprocessableEntityException

The request failed as resource was not found in desired state.

HTTP Status Code: 422

ValidationException

A parameter is not valid.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StartProductSubscription

Starts a product subscription for a user with the specified identity provider.

Note

Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as **Pending** billing status) in AWS Billing. For more information, see [Viewing your monthly charges](#) in the *AWS Billing User Guide*.

Request Syntax

```
POST /user/StartProductSubscription HTTP/1.1
Content-type: application/json
```

```
{
  "Domain": "string",
  "IdentityProvider": { ... },
  "Product": "string",
  "Tags": {
    "string" : "string"
  },
  "Username": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Domain

The domain name of the Active Directory that contains the user for whom to start the product subscription.

Type: String

Required: No

IdentityProvider

An object that specifies details for the identity provider.

Type: [IdentityProvider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Product

The name of the user-based subscription product.

Valid values: VISUAL_STUDIO_ENTERPRISE | VISUAL_STUDIO_PROFESSIONAL | OFFICE_PROFESSIONAL_PLUS | REMOTE_DESKTOP_SERVICES

Type: String

Required: Yes

Tags

The tags that apply to the product subscription.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Required: No

Username

The user name from the identity provider of the user.

Type: String

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "ProductUserSummary": {
    "Domain": "string",
    "IdentityProvider": { ... },
    "Product": "string",
    "ProductUserArn": "string",
    "Status": "string",
    "StatusMessage": "string",
    "SubscriptionEndDate": "string",
    "SubscriptionStartDate": "string",
    "Username": "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.

ProductUserSummary

Metadata that describes the start product subscription operation.

Type: [ProductUserSummary](#) object

Errors

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

AccessDeniedException

You don't have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 500

InternalServerErrorException

An exception occurred with the service.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request failed because a service quota is exceeded.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 400

UnprocessableEntityException

The request failed as resource was not found in desired state.

HTTP Status Code: 422

ValidationException

A parameter is not valid.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StopProductSubscription

Stops a product subscription for a user with the specified identity provider.

Request Syntax

```
POST /user/StopProductSubscription HTTP/1.1
Content-type: application/json
```

```
{
  "Domain": "string",
  "IdentityProvider": { ... },
  "Product": "string",
  "ProductUserArn": "string",
  "Username": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Domain

The domain name of the Active Directory that contains the user for whom to stop the product subscription.

Type: String

Required: No

IdentityProvider

An object that specifies details for the identity provider.

Type: [IdentityProvider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

Product

The name of the user-based subscription product.

Valid values: VISUAL_STUDIO_ENTERPRISE | VISUAL_STUDIO_PROFESSIONAL | OFFICE_PROFESSIONAL_PLUS | REMOTE_DESKTOP_SERVICES

Type: String

Required: No

ProductUserArn

The Amazon Resource Name (ARN) of the product user.

Type: String

Pattern: arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-zA-Z0-9-\.]{1,510}/[a-zA-Z0-9-\.]{1,510}

Required: No

Username

The user name from the identity provider for the user.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "ProductUserSummary": {
    "Domain": "string",
    "IdentityProvider": { ... },
    "Product": "string",
    "ProductUserArn": "string",
    "Status": "string",
```

```
"StatusMessage": "string",  
"SubscriptionEndDate": "string",  
"SubscriptionStartDate": "string",  
"Username": "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.

ProductUserSummary

Metadata that describes the start product subscription operation.

Type: [ProductUserSummary](#) object

Errors

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

AccessDeniedException

You don't have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 500

InternalServerError

An exception occurred with the service.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

ServiceQuotaExceededException

The request failed because a service quota is exceeded.

HTTP Status Code: 400

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 400

UnprocessableEntityException

The request failed as resource was not found in desired state.

HTTP Status Code: 422

ValidationException

A parameter is not valid.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TagResource

Adds tags to a resource.

Request Syntax

```
PUT /tags/ResourceArn HTTP/1.1
Content-type: application/json
```

```
{
  "Tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

ResourceArn

The Amazon Resource Name (ARN) of the resource that you want to tag.

Pattern: arn:([a-z0-9-\.]^{1,63}):([a-z0-9-\.]^{1,63}):([a-z0-9-\.]^{1,63}):([a-z0-9-\.]^{1,63}):([a-z0-9-\.]^{1,510})/([a-z0-9-\.]^{1,510})

Required: Yes

Request Body

The request accepts the following data in JSON format.

Tags

The tags to apply to the specified resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

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 Error Types](#).

InternalServerErrorException

An exception occurred with the service.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

ValidationException

A parameter is not valid.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

UntagResource

Removes tags from a resource.

Request Syntax

```
DELETE /tags/ResourceArn?tagKeys=TagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ResourceArn

The Amazon Resource Name (ARN) of the resource that you want to remove tags from.

Pattern: `arn:([a-z0-9-\.]\{1,63\}):([a-z0-9-\.]\{1,63\}):([a-z0-9-\.]\{1,63\}):([a-z0-9-\.]\{1,63\}):([a-z0-9-\.]\{1,510\})/([a-z0-9-\.]\{1,510\})`

Required: Yes

TagKeys

The tag keys to remove from the resource.

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

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 Error Types](#).

InternalServerErrorException

An exception occurred with the service.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateIdentityProviderSettings

Updates additional product configuration settings for the registered identity provider.

Request Syntax

```
POST /identity-provider/UpdateIdentityProviderSettings HTTP/1.1
Content-type: application/json
```

```
{
  "IdentityProvider": { ... },
  "IdentityProviderArn": "string",
  "Product": "string",
  "UpdateSettings": {
    "AddSubnets": [ "string" ],
    "RemoveSubnets": [ "string" ],
    "SecurityGroupId": "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

IdentityProvider

Refers to an identity provider.

Type: [IdentityProvider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

IdentityProviderArn

The Amazon Resource Name (ARN) of the identity provider to update.

Type: String

Pattern: `arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-zA-Z0-9-\.]{1,510}/[a-zA-Z0-9-\.]{1,510}`

Required: No

Product

The name of the user-based subscription product.

Valid values: VISUAL_STUDIO_ENTERPRISE | VISUAL_STUDIO_PROFESSIONAL | OFFICE_PROFESSIONAL_PLUS | REMOTE_DESKTOP_SERVICES

Type: String

Required: No

UpdateSettings

Updates the registered identity provider's product related configuration settings. You can update any combination of settings in a single operation such as the:

- Subnets which you want to add to provision VPC endpoints.
- Subnets which you want to remove the VPC endpoints from.
- Security group ID which permits traffic to the VPC endpoints.

Type: [UpdateSettings](#) object

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "IdentityProviderSummary": {
    "FailureMessage": "string",
    "IdentityProvider": { ... },
    "IdentityProviderArn": "string",
    "Product": "string",
    "Settings": {
      "SecurityGroupId": "string",
      "Subnets": [ "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.

IdentityProviderSummary

Describes an identity provider.

Type: [IdentityProviderSummary](#) object

Errors

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

AccessDeniedException

You don't have sufficient access to perform this action.

HTTP Status Code: 400

InternalServerError

An exception occurred with the service.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 400

ValidationException

A parameter is not valid.

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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Data Types

The AWS License Manager User Subscriptions 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:

- [ActiveDirectoryIdentityProvider](#)
- [ActiveDirectorySettings](#)
- [CredentialsProvider](#)
- [DomainNetworkSettings](#)
- [Filter](#)
- [IdentityProvider](#)
- [IdentityProviderSummary](#)
- [InstanceSummary](#)
- [InstanceUserSummary](#)
- [LicenseServer](#)
- [LicenseServerEndpoint](#)
- [LicenseServerSettings](#)
- [ProductUserSummary](#)
- [RdsSalSettings](#)
- [SecretsManagerCredentialsProvider](#)
- [ServerEndpoint](#)
- [ServerSettings](#)
- [Settings](#)
- [UpdateSettings](#)

ActiveDirectoryIdentityProvider

Details about an Active Directory identity provider.

Contents

ActiveDirectorySettings

The `ActiveDirectorySettings` resource contains details about the Active Directory, including network access details such as domain name and IP addresses, and the credential provider for user administration.

Type: [ActiveDirectorySettings](#) object

Required: No

ActiveDirectoryType

The type of Active Directory – either a self-managed Active Directory or an AWS Managed Active Directory.

Type: String

Valid Values: SELF_MANAGED | AWS_MANAGED

Required: No

DirectoryId

The directory ID for an Active Directory identity provider.

Type: String

Pattern: (d|sd)-[0-9a-f]{10}

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

ActiveDirectorySettings

Contains network access and credential details that are needed for user administration in the Active Directory.

Contents

DomainCredentialsProvider

Points to the `CredentialsProvider` resource that contains information about the credential provider for user administration.

Type: [CredentialsProvider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

DomainIpv4List

A list of domain IPv4 addresses that are used for the Active Directory.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Pattern: `(?: (25[0-5] | 2[0-4][0-9] | 1[0-9][0-9] | [1-9][0-9] | [0-9]) (\.(?!$)|$))`
{4}

Required: No

DomainName

The domain name for the Active Directory.

Type: String

Required: No

DomainNetworkSettings

The `DomainNetworkSettings` resource contains an array of subnets that apply for the Active Directory.

Type: [DomainNetworkSettings](#) object

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

CredentialsProvider

Contains information about the credential provider for user administration.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

SecretsManagerCredentialsProvider

Identifies the AWS Secrets Manager secret that contains credentials needed for user administration in the Active Directory.

Type: [SecretsManagerCredentialsProvider](#) object

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

DomainNetworkSettings

Contains network settings for the Active Directory domain.

Contents

Subnets

Contains a list of subnets that apply for the Active Directory domain.

Type: Array of strings

Array Members: Minimum number of 1 item.

Pattern: subnet-[a-z0-9]{8,17}.*

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 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 or list operation. You can use filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.

Contents

Attribute

The name of an attribute to use as a filter.

Type: String

Required: No

Operation

The type of search (For example, eq, geq, leq)

Type: String

Required: No

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

IdentityProvider

Refers to an identity provider.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

ActiveDirectoryIdentityProvider

The `ActiveDirectoryIdentityProvider` resource contains settings and other details about a specific Active Directory identity provider.

Type: [ActiveDirectoryIdentityProvider](#) object

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

IdentityProviderSummary

Describes an identity provider.

Contents

IdentityProvider

The `IdentityProvider` resource contains information about an identity provider.

Type: [IdentityProvider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Product

The name of the user-based subscription product.

Type: String

Required: Yes

Settings

The `Settings` resource contains details about the registered identity provider's product related configuration settings, such as the subnets to provision VPC endpoints.

Type: [Settings](#) object

Required: Yes

Status

The status of the identity provider.

Type: String

Required: Yes

FailureMessage

The failure message associated with an identity provider.

Type: String

Required: No

IdentityProviderArn

The Amazon Resource Name (ARN) of the identity provider.

Type: String

Pattern: `arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-zA-Z0-9-\.]{1,510}/[a-zA-Z0-9-\.]{1,510}`

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

InstanceSummary

Describes an EC2 instance providing user-based subscriptions.

Contents

InstanceId

The ID of the EC2 instance, which provides user-based subscriptions.

Type: String

Required: Yes

Products

A list of provided user-based subscription products.

Type: Array of strings

Required: Yes

Status

The status of an EC2 instance resource.

Type: String

Required: Yes

LastStatusCheckDate

The date of the last status check.

Type: String

Required: No

StatusMessage

The status message for an EC2 instance.

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

InstanceUserSummary

Describes users of an EC2 instance providing user-based subscriptions.

Contents

IdentityProvider

The `IdentityProvider` resource specifies details about the identity provider.

Type: [IdentityProvider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

InstanceId

The ID of the EC2 instance that provides user-based subscriptions.

Type: String

Required: Yes

Status

The status of a user associated with an EC2 instance.

Type: String

Required: Yes

Username

The user name from the identity provider for the user.

Type: String

Required: Yes

AssociationDate

The date a user was associated with an EC2 instance.

Type: String

Required: No

DisassociationDate

The date a user was disassociated from an EC2 instance.

Type: String

Required: No

Domain

The domain name of the Active Directory that contains the user information for the product subscription.

Type: String

Required: No

InstanceUserArn

The Amazon Resource Name (ARN) that identifies the instance user.

Type: String

Pattern: `arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-zA-Z0-9-\.]{1,510}/[a-zA-Z0-9-\.]{1,510}`

Required: No

StatusMessage

The status message for users of an EC2 instance.

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

LicenseServer

Information about a Remote Desktop Services (RDS) license server.

Contents

HealthStatus

The health status of the RDS license server.

Type: String

Valid Values: HEALTHY | UNHEALTHY | NOT_APPLICABLE

Required: No

Ipv4Address

A list of domain IPv4 addresses that are used for the RDS license server.

Type: String

Required: No

ProvisioningStatus

The current state of the provisioning process for the RDS license server.

Type: String

Valid Values: PROVISIONING | PROVISIONING_FAILED | PROVISIONED | DELETING | DELETION_FAILED | DELETED

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 Java V2](#)

- [AWS SDK for Ruby V3](#)

LicenseServerEndpoint

Contains details about a network endpoint for a Remote Desktop Services (RDS) license server.

Contents

CreationTime

The timestamp when License Manager created the license server endpoint.

Type: Timestamp

Required: No

IdentityProviderArn

The Amazon Resource Name (ARN) of the identity provider that's associated with the RDS license server endpoint.

Type: String

Required: No

LicenseServerEndpointArn

The ARN of the `ServerEndpoint` resource for the RDS license server.

Type: String

Pattern: `arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-zA-Z0-9-\.]{1,510}/[a-zA-Z0-9-\.]{1,510}`

Required: No

LicenseServerEndpointId

The ID of the license server endpoint.

Type: String

Required: No

LicenseServerEndpointProvisioningStatus

The current state of the provisioning process for the RDS license server endpoint

Type: String

Valid Values: PROVISIONING | PROVISIONING_FAILED | PROVISIONED | DELETING | DELETION_FAILED | DELETED

Required: No

LicenseServers

An array of `LicenseServer` resources that represent the license servers that are accessed through this endpoint.

Type: Array of [LicenseServer](#) objects

Required: No

ServerEndpoint

The `ServerEndpoint` resource contains the network address of the RDS license server endpoint.

Type: [ServerEndpoint](#) object

Required: No

ServerType

The type of license server.

Type: String

Valid Values: RDS_SAL

Required: No

StatusMessage

The message associated with the provisioning status, if there is one.

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

LicenseServerSettings

The settings to configure your license server.

Contents

ServerSettings

The `ServerSettings` resource contains the settings for your server.

Type: [ServerSettings](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

ServerType

The type of license server.

Type: String

Valid Values: RDS_SAL

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

ProductUserSummary

A summary of the user-based subscription products for a specific user.

Contents

IdentityProvider

An object that specifies details for the identity provider.

Type: [IdentityProvider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Product

The name of the user-based subscription product.

Type: String

Required: Yes

Status

The status of a product for this user.

Type: String

Required: Yes

Username

The user name from the identity provider for this product user.

Type: String

Required: Yes

Domain

The domain name of the Active Directory that contains the user information for the product subscription.

Type: String

Required: No

ProductUserArn

The Amazon Resource Name (ARN) for this product user.

Type: String

Pattern: `arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{1,63}:[a-zA-Z0-9-\.]{1,510}/[a-zA-Z0-9-\.]{1,510}`

Required: No

StatusMessage

The status message for a product for this user.

Type: String

Required: No

SubscriptionEndDate

The end date of a subscription.

Type: String

Required: No

SubscriptionStartDate

The start date of a subscription.

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 Java V2](#)

- [AWS SDK for Ruby V3](#)

RdsSalSettings

Server settings that are specific to a Remote Desktop Services (RDS) license server.

Contents

RdsSalCredentialsProvider

The `CredentialsProvider` resource contains a reference to the credentials provider that's used for RDS license server user administration.

Type: [CredentialsProvider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

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

SecretsManagerCredentialsProvider

Contains a credentials secret that's stored in AWS Secrets Manager.

Contents

SecretId

The ID of the Secrets Manager secret that contains credentials.

Type: String

Length Constraints: Minimum length of 1.

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

ServerEndpoint

A network endpoint through which you can access one or more servers.

Contents

Endpoint

The network address of the endpoint.

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

ServerSettings

Contains settings for a specific server.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

RdsSa1Settings

The `RdsSa1Settings` resource contains settings to configure a specific Remote Desktop Services (RDS) license server.

Type: [RdsSa1Settings](#) object

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

Settings

The registered identity provider's product related configuration settings such as the subnets to provision VPC endpoints, and the security group ID that is associated with the VPC endpoints. The security group should permit inbound TCP port 1688 communication from resources in the VPC.

Contents

SecurityGroupId

A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoint for activation servers.

Type: String

Length Constraints: Minimum length of 5. Maximum length of 200.

Pattern: `sg-(([0-9a-z]{8})|([0-9a-z]{17}))`

Required: Yes

Subnets

The subnets defined for the registered identity provider.

Type: Array of strings

Array Members: Minimum number of 1 item.

Pattern: `subnet-[a-z0-9]{8,17}.*`

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

UpdateSettings

Updates the registered identity provider's product related configuration settings such as the subnets to provision VPC endpoints.

Contents

AddSubnets

The ID of one or more subnets in which License Manager will create a VPC endpoint for products that require connectivity to activation servers.

Type: Array of strings

Pattern: subnet-[a-z0-9]{8,17}.*

Required: Yes

RemoveSubnets

The ID of one or more subnets to remove.

Type: Array of strings

Pattern: subnet-[a-z0-9]{8,17}.*

Required: Yes

SecurityGroupId

A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoints for activation servers.

Type: String

Length Constraints: Minimum length of 5. Maximum length of 200.

Pattern: sg-((([0-9a-z]{8}))|([0-9a-z]{17}))

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 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 [Signing AWS API requests](#) in the *IAM User Guide*.

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 [Create a signed AWS API request](#) in the *IAM User Guide*.

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'T'HHMMSS'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 [Elements of an AWS API request signature](#) in the *IAM User Guide*.

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 STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, 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 [Create a signed AWS API request](#) in the *IAM User Guide*.

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 Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

IncompleteSignature

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

InternalFailure

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

MalformedHttpRequestException

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

NotAuthorized

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

OptInRequired

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

RequestAbortedException

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

RequestEntityTooLargeException

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

RequestTimeoutException

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

ServiceUnavailable

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

ThrottlingException

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

UnknownOperationException

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

UnrecognizedClientException

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

ValidationError

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400