



API Reference

Amazon WorkSpaces Thin Client



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Amazon WorkSpaces Thin Client: API Reference

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Welcome

Amazon WorkSpaces Thin Client is an affordable device built to work with AWS End User Computing (EUC) virtual desktops to provide users with a complete cloud desktop solution. WorkSpaces Thin Client is a compact device designed to connect up to two monitors and USB devices like a keyboard, mouse, headset, and webcam. To maximize endpoint security, WorkSpaces Thin Client devices do not allow local data storage or installation of unapproved applications. The WorkSpaces Thin Client device ships preloaded with device management software.

You can use these APIs to complete WorkSpaces Thin Client tasks, such as creating environments or viewing devices. For more information about WorkSpaces Thin Client, including the required permissions to use the service, see the [Amazon WorkSpaces Thin Client Administrator Guide](#). For more information about using the AWS Command Line Interface (AWS CLI) to manage your WorkSpaces Thin Client resources, see the [WorkSpaces Thin Client section of the AWS CLI Reference](#).

This document was last published on February 11, 2026.

Actions

The following actions are supported:

- [CreateEnvironment](#)
- [DeleteDevice](#)
- [DeleteEnvironment](#)
- [DeregisterDevice](#)
- [GetDevice](#)
- [GetEnvironment](#)
- [GetSoftwareSet](#)
- [ListDevices](#)
- [ListEnvironments](#)
- [ListSoftwareSets](#)
- [ListTagsForResource](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateDevice](#)
- [UpdateEnvironment](#)
- [UpdateSoftwareSet](#)

CreateEnvironment

Creates an environment for your thin client devices.

Request Syntax

```
POST /environments HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "clientToken": "string",
  "desiredSoftwareSetId": "string",
  "desktopArn": "string",
  "desktopEndpoint": "string",
  "deviceCreationTags": {
    "string" : "string"
  },
  "kmsKeyArn": "string",
  "maintenanceWindow": {
    "applyTimeOf": "string",
    "daysOfTheWeek": [ "string" ],
    "endTimeHour": number,
    "endTimeMinute": number,
    "startTimeHour": number,
    "startTimeMinute": number,
    "type": "string"
  },
  "name": "string",
  "softwareSetUpdateMode": "string",
  "softwareSetUpdateSchedule": "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.

clientToken

Specifies a unique, case-sensitive identifier that you provide to ensure the idempotency of the request. This lets you safely retry the request without accidentally performing the same operation a second time. Passing the same value to a later call to an operation requires that you also pass the same value for all other parameters. We recommend that you use a [UUID type of value](#).

If you don't provide this value, then AWS generates a random one for you.

If you retry the operation with the same `ClientToken`, but with different parameters, the retry fails with an `IdempotentParameterMismatch` error.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

desiredSoftwareSetId

The ID of the software set to apply.

Type: String

Pattern: `[0-9]{1,9}`

Required: No

desktopArn

The Amazon Resource Name (ARN) of the desktop to stream from Amazon WorkSpaces, WorkSpaces Secure Browser, or WorkSpaces Applications.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[\w+=\./,.\@-]+:[a-zA-Z0-9\-\_]+:[a-zA-Z0-9\-\_]*:[0-9]{0,12}:[a-zA-Z0-9\-\_\.\/\.\_]+`

Required: Yes

desktopEndpoint

The URL for the identity provider login (only for environments that use WorkSpaces Applications).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: (https:\\\\)[a-z0-9]+(\\-\\.){1}[a-z0-9]+)*\\. [a-z]{2,32}(:[0-9]{1,5})?(\\/.*)?

Required: No

deviceCreationTags

A map of the key-value pairs of the tag or tags to assign to the newly created devices for this environment.

Type: String to string map

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

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[A-Za-z0-9_@:.-/+]

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: [A-Za-z0-9_@:.-/+]

Required: No

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS Key Management Service key to use to encrypt the environment.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:\\w+=\\/, .@-]+:kms:[a-zA-Z0-9\\-]*:[0-9]{0,12}:key\\/[a-zA-Z0-9-]+

Required: No

maintenanceWindow

A specification for a time window to apply software updates.

Type: [MaintenanceWindow](#) object

Required: No

name

The name for the environment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 64.

Pattern: `$|^[0-9\p{IsAlphabetic}+;,:.@' " -][0-9\p{IsAlphabetic}+;,:.@' " -]*`

Required: No

softwareSetUpdateMode

An option to define which software updates to apply.

Type: String

Valid Values: `USE_LATEST` | `USE_DESIRED`

Required: No

softwareSetUpdateSchedule

An option to define if software updates should be applied within a maintenance window.

Type: String

Valid Values: `USE_MAINTENANCE_WINDOW` | `APPLY_IMMEDIATELY`

Required: No

tags

A map of the key-value pairs of the tag or tags to assign to the resource.

Type: String to string map

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
  "environment": {
    "activationCode": "string",
    "arn": "string",
    "createdAt": number,
    "desiredSoftwareSetId": "string",
    "desktopArn": "string",
    "desktopEndpoint": "string",
    "desktopType": "string",
    "id": "string",
    "maintenanceWindow": {
      "applyTimeOf": "string",
      "daysOfTheWeek": [ "string" ],
      "endTimeHour": number,
      "endTimeMinute": number,
      "startTimeHour": number,
      "startTimeMinute": number,
      "type": "string"
    },
    "name": "string",
    "pendingSoftwareSetId": "string",
    "softwareSetUpdateMode": "string",
    "softwareSetUpdateSchedule": "string",
    "updatedAt": number
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

environment

Describes an environment.

Type: [EnvironmentSummary](#) object

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The requested operation would cause a conflict with the current state of a service resource associated with the request. Resolve the conflict before retrying this request.

resourceId

The ID of the resource associated with the request.

resourceType

The type of the resource associated with the request.

HTTP Status Code: 409

InternalServerError

The server encountered an internal error and is unable to complete the request.

retryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

resourceId

The ID of the resource associated with the request.

resourceType

The type of the resource associated with the request.

HTTP Status Code: 404

ServiceQuotaExceededException

Your request exceeds a service quota.

quotaCode

The code for the quota in [Service Quotas](#).

resourceId

The ID of the resource that exceeds the service quota.

resourceType

The type of the resource that exceeds the service quota.

serviceCode

The code for the service in [Service Quotas](#).

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

quotaCode

The code for the quota in [Service Quotas](#).

retryAfterSeconds

The number of seconds to wait before retrying the next request.

serviceCode

The code for the service in [Service Quotas](#).

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

A list of fields that didn't validate.

reason

The reason for the exception.

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](#)

DeleteDevice

Deletes a thin client device.

Request Syntax

```
DELETE /devices/id?clientToken=clientToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

clientToken

Specifies a unique, case-sensitive identifier that you provide to ensure the idempotency of the request. This lets you safely retry the request without accidentally performing the same operation a second time. Passing the same value to a later call to an operation requires that you also pass the same value for all other parameters. We recommend that you use a [UUID type of value](#).

If you don't provide this value, then AWS generates a random one for you.

If you retry the operation with the same `ClientToken`, but with different parameters, the retry fails with an `IdempotentParameterMismatch` error.

Length Constraints: Minimum length of 1. Maximum length of 512.

id

The ID of the device to delete.

Pattern: `[a-zA-Z0-9]{24}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The requested operation would cause a conflict with the current state of a service resource associated with the request. Resolve the conflict before retrying this request.

resourceId

The ID of the resource associated with the request.

resourceType

The type of the resource associated with the request.

HTTP Status Code: 409

InternalServerError

The server encountered an internal error and is unable to complete the request.

retryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

resourceId

The ID of the resource associated with the request.

resourceType

The type of the resource associated with the request.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

quotaCode

The code for the quota in [Service Quotas](#).

retryAfterSeconds

The number of seconds to wait before retrying the next request.

serviceCode

The code for the service in [Service Quotas](#).

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

A list of fields that didn't validate.

reason

The reason for the exception.

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](#)

DeleteEnvironment

Deletes an environment.

Request Syntax

```
DELETE /environments/id?clientToken=clientToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

clientToken

Specifies a unique, case-sensitive identifier that you provide to ensure the idempotency of the request. This lets you safely retry the request without accidentally performing the same operation a second time. Passing the same value to a later call to an operation requires that you also pass the same value for all other parameters. We recommend that you use a [UUID type of value](#).

If you don't provide this value, then AWS generates a random one for you.

If you retry the operation with the same `ClientToken`, but with different parameters, the retry fails with an `IdempotentParameterMismatch` error.

Length Constraints: Minimum length of 1. Maximum length of 512.

id

The ID of the environment to delete.

Pattern: `[a-z0-9]{9}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The requested operation would cause a conflict with the current state of a service resource associated with the request. Resolve the conflict before retrying this request.

resourceId

The ID of the resource associated with the request.

resourceType

The type of the resource associated with the request.

HTTP Status Code: 409

InternalServerError

The server encountered an internal error and is unable to complete the request.

retryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

resourceId

The ID of the resource associated with the request.

resourceType

The type of the resource associated with the request.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

quotaCode

The code for the quota in [Service Quotas](#).

retryAfterSeconds

The number of seconds to wait before retrying the next request.

serviceCode

The code for the service in [Service Quotas](#).

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

A list of fields that didn't validate.

reason

The reason for the exception.

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](#)

DeregisterDevice

Deregisters a thin client device.

Request Syntax

```
POST /deregister-device/id HTTP/1.1
Content-type: application/json

{
  "clientToken": "string",
  "targetDeviceStatus": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the device to deregister.

Pattern: [a-zA-Z0-9]{24}

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

Specifies a unique, case-sensitive identifier that you provide to ensure the idempotency of the request. This lets you safely retry the request without accidentally performing the same operation a second time. Passing the same value to a later call to an operation requires that you also pass the same value for all other parameters. We recommend that you use a [UUID type of value](#).

If you don't provide this value, then AWS generates a random one for you.

If you retry the operation with the same `ClientToken`, but with different parameters, the retry fails with an `IdempotentParameterMismatch` error.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

[targetDeviceStatus](#)

The desired new status for the device.

Type: String

Valid Values: DEREGISTERED | ARCHIVED

Required: No

Response Syntax

```
HTTP/1.1 202
```

Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The requested operation would cause a conflict with the current state of a service resource associated with the request. Resolve the conflict before retrying this request.

resourceId

The ID of the resource associated with the request.

resourceType

The type of the resource associated with the request.

HTTP Status Code: 409

InternalServerError

The server encountered an internal error and is unable to complete the request.

retryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

resourceId

The ID of the resource associated with the request.

resourceType

The type of the resource associated with the request.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

quotaCode

The code for the quota in [Service Quotas](#).

retryAfterSeconds

The number of seconds to wait before retrying the next request.

serviceCode

The code for the service in [Service Quotas](#).

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

A list of fields that didn't validate.

reason

The reason for the exception.

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](#)

GetDevice

Returns information for a thin client device.

Request Syntax

```
GET /devices/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the device for which to return information.

Pattern: [a-zA-Z0-9]{24}

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "device": {
    "arn": "string",
    "createdAt": number,
    "currentSoftwareSetId": "string",
    "currentSoftwareSetVersion": "string",
    "desiredSoftwareSetId": "string",
    "environmentId": "string",
    "id": "string",
    "kmsKeyArn": "string",
    "lastConnectedAt": number,
```

```
    "lastPostureAt": number,
    "model": "string",
    "name": "string",
    "pendingSoftwareSetId": "string",
    "pendingSoftwareSetVersion": "string",
    "serialNumber": "string",
    "softwareSetComplianceStatus": "string",
    "softwareSetUpdateSchedule": "string",
    "softwareSetUpdateStatus": "string",
    "status": "string",
    "tags": {
        "string" : "string"
    },
    "updatedAt": number
}
```

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.

device

Describes an device.

Type: [Device](#) object

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

The server encountered an internal error and is unable to complete the request.

retryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

resourceId

The ID of the resource associated with the request.

resourceType

The type of the resource associated with the request.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

quotaCode

The code for the quota in [Service Quotas](#).

retryAfterSeconds

The number of seconds to wait before retrying the next request.

serviceCode

The code for the service in [Service Quotas](#).

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

A list of fields that didn't validate.

reason

The reason for the exception.

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](#)

GetEnvironment

Returns information for an environment.

Request Syntax

```
GET /environments/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the environment for which to return information.

Pattern: [a-z0-9]{9}

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "environment": {
    "activationCode": "string",
    "arn": "string",
    "createdAt": number,
    "desiredSoftwareSetId": "string",
    "desktopArn": "string",
    "desktopEndpoint": "string",
    "desktopType": "string",
    "deviceCreationTags": {
```

```
    "string" : "string"
  },
  "id": "string",
  "kmsKeyArn": "string",
  "maintenanceWindow": {
    "applyTimeOf": "string",
    "daysOfTheWeek": [ "string" ],
    "endTimeHour": number,
    "endTimeMinute": number,
    "startTimeHour": number,
    "startTimeMinute": number,
    "type": "string"
  },
  "name": "string",
  "pendingSoftwareSetId": "string",
  "pendingSoftwareSetVersion": "string",
  "registeredDevicesCount": number,
  "softwareSetComplianceStatus": "string",
  "softwareSetUpdateMode": "string",
  "softwareSetUpdateSchedule": "string",
  "tags": {
    "string" : "string"
  },
  "updatedAt": number
}
```

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.

environment

Describes an environment.

Type: [Environment](#) object

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

The server encountered an internal error and is unable to complete the request.

retryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

resourceId

The ID of the resource associated with the request.

resourceType

The type of the resource associated with the request.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

quotaCode

The code for the quota in [Service Quotas](#).

retryAfterSeconds

The number of seconds to wait before retrying the next request.

serviceCode

The code for the service in [Service Quotas](#).

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

A list of fields that didn't validate.

reason

The reason for the exception.

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](#)

GetSoftwareSet

Returns information for a software set.

Request Syntax

```
GET /softwaresets/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the software set for which to return information.

Pattern: [0-9]{1,9}

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "softwareSet": {
    "arn": "string",
    "id": "string",
    "releasedAt": number,
    "software": [
      {
        "name": "string",
        "version": "string"
      }
    ],
  },
}
```

```
"supportedUntil": number,  
"tags": {  
  "string" : "string"  
},  
"validationStatus": "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.

[softwareSet](#)

Describes a software set.

Type: [SoftwareSet](#) object

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

The server encountered an internal error and is unable to complete the request.

retryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

resourceId

The ID of the resource associated with the request.

resourceType

The type of the resource associated with the request.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

quotaCode

The code for the quota in [Service Quotas](#).

retryAfterSeconds

The number of seconds to wait before retrying the next request.

serviceCode

The code for the service in [Service Quotas](#).

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

A list of fields that didn't validate.

reason

The reason for the exception.

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](#)

ListDevices

Returns a list of thin client devices.

Request Syntax

```
GET /devices?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results that are returned per call. You can use `nextToken` to obtain further pages of results.

This is only an upper limit. The actual number of results returned per call might be fewer than the specified maximum.

Valid Range: Minimum value of 1. Maximum value of 50.

nextToken

If `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged. Each pagination token expires after 24 hours. Using an expired pagination token will return an *HTTP 400 InvalidToken error*.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `\S*`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "devices": [
    {
      "arn": "string",
      "createdAt": number,
      "currentSoftwareSetId": "string",
      "desiredSoftwareSetId": "string",
      "environmentId": "string",
      "id": "string",
      "lastConnectedAt": number,
      "lastPostureAt": number,
      "model": "string",
      "name": "string",
      "pendingSoftwareSetId": "string",
      "serialNumber": "string",
      "softwareSetUpdateSchedule": "string",
      "status": "string",
      "updatedAt": number
    }
  ],
  "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.

devices

Describes devices.

Type: Array of [DeviceSummary](#) objects

nextToken

If nextToken is returned, there are more results available. The value of nextToken is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged. Each pagination token expires after 24 hours. Using an expired pagination token will return an *HTTP 400 InvalidToken error*.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: \S*

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

The server encountered an internal error and is unable to complete the request.

retryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

quotaCode

The code for the quota in [Service Quotas](#).

retryAfterSeconds

The number of seconds to wait before retrying the next request.

serviceCode

The code for the service in [Service Quotas](#).

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

A list of fields that didn't validate.

reason

The reason for the exception.

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](#)

ListEnvironments

Returns a list of environments.

Request Syntax

```
GET /environments?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results that are returned per call. You can use `nextToken` to obtain further pages of results.

This is only an upper limit. The actual number of results returned per call might be fewer than the specified maximum.

Valid Range: Minimum value of 1. Maximum value of 50.

nextToken

If `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged. Each pagination token expires after 24 hours. Using an expired pagination token will return an *HTTP 400 InvalidToken error*.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `\S*`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "environments": [
    {
      "activationCode": "string",
      "arn": "string",
      "createdAt": number,
      "desiredSoftwareSetId": "string",
      "desktopArn": "string",
      "desktopEndpoint": "string",
      "desktopType": "string",
      "id": "string",
      "maintenanceWindow": {
        "applyTimeOf": "string",
        "daysOfTheWeek": [ "string" ],
        "endTimeHour": number,
        "endTimeMinute": number,
        "startTimeHour": number,
        "startTimeMinute": number,
        "type": "string"
      },
      "name": "string",
      "pendingSoftwareSetId": "string",
      "softwareSetUpdateMode": "string",
      "softwareSetUpdateSchedule": "string",
      "updatedAt": number
    }
  ],
  "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.

[environments](#)

Describes environments.

Type: Array of [EnvironmentSummary](#) objects

nextToken

If `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged. Each pagination token expires after 24 hours. Using an expired pagination token will return an *HTTP 400 InvalidToken error*.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `\S*`

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

The server encountered an internal error and is unable to complete the request.

retryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

quotaCode

The code for the quota in [Service Quotas](#).

retryAfterSeconds

The number of seconds to wait before retrying the next request.

serviceCode

The code for the service in [Service Quotas](#).

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

A list of fields that didn't validate.

reason

The reason for the exception.

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](#)

ListSoftwareSets

Returns a list of software sets.

Request Syntax

```
GET /softwaresets?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results that are returned per call. You can use `nextToken` to obtain further pages of results.

This is only an upper limit. The actual number of results returned per call might be fewer than the specified maximum.

Valid Range: Minimum value of 1. Maximum value of 50.

nextToken

If `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged. Each pagination token expires after 24 hours. Using an expired pagination token will return an *HTTP 400 InvalidToken error*.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `\S*`

Request Body

The request does not have a request body.

Response Syntax

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

```
{
  "nextToken": "string",
  "softwareSets": [
    {
      "arn": "string",
      "id": "string",
      "releasedAt": number,
      "supportedUntil": number,
      "validationStatus": "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.

nextToken

If nextToken is returned, there are more results available. The value of nextToken is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged. Each pagination token expires after 24 hours. Using an expired pagination token will return an *HTTP 400 InvalidToken error*.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: \S*

softwareSets

Describes software sets.

Type: Array of [SoftwareSetSummary](#) objects

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

The server encountered an internal error and is unable to complete the request.

retryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

quotaCode

The code for the quota in [Service Quotas](#).

retryAfterSeconds

The number of seconds to wait before retrying the next request.

serviceCode

The code for the service in [Service Quotas](#).

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

A list of fields that didn't validate.

reason

The reason for the exception.

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 a list of tags for a 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 for which you want to retrieve tags.

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

A map of the key-value pairs for the tag or tags assigned to the specified resource.

Type: String to string map

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

The server encountered an internal error and is unable to complete the request.

retryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

resourceId

The ID of the resource associated with the request.

resourceType

The type of the resource associated with the request.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

quotaCode

The code for the quota in [Service Quotas](#).

retryAfterSeconds

The number of seconds to wait before retrying the next request.

serviceCode

The code for the service in [Service Quotas](#).

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

A list of fields that didn't validate.

reason

The reason for the exception.

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

Assigns one or more tags (key-value pairs) to the specified resource.

Request Syntax

```
POST /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.

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

A map of the key-value pairs of the tag or tags to assign to the resource.

Type: String to string map

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 Errors](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The requested operation would cause a conflict with the current state of a service resource associated with the request. Resolve the conflict before retrying this request.

resourceId

The ID of the resource associated with the request.

resourceType

The type of the resource associated with the request.

HTTP Status Code: 409

InternalServerError

The server encountered an internal error and is unable to complete the request.

retryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

resourceId

The ID of the resource associated with the request.

resourceType

The type of the resource associated with the request.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

quotaCode

The code for the quota in [Service Quotas](#).

retryAfterSeconds

The number of seconds to wait before retrying the next request.

serviceCode

The code for the service in [Service Quotas](#).

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

A list of fields that didn't validate.

reason

The reason for the exception.

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 a tag or 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 untag.

Required: Yes

tagKeys

The keys of the key-value pairs for the tag or tags you want to remove from the specified resource.

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 Errors](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

The requested operation would cause a conflict with the current state of a service resource associated with the request. Resolve the conflict before retrying this request.

resourceId

The ID of the resource associated with the request.

resourceType

The type of the resource associated with the request.

HTTP Status Code: 409

InternalServerError

The server encountered an internal error and is unable to complete the request.

retryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

resourceId

The ID of the resource associated with the request.

resourceType

The type of the resource associated with the request.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

quotaCode

The code for the quota in [Service Quotas](#).

retryAfterSeconds

The number of seconds to wait before retrying the next request.

serviceCode

The code for the service in [Service Quotas](#).

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

A list of fields that didn't validate.

reason

The reason for the exception.

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](#)

UpdateDevice

Updates a thin client device.

Request Syntax

```
PATCH /devices/id HTTP/1.1
Content-type: application/json

{
  "desiredSoftwareSetId": "string",
  "name": "string",
  "softwareSetUpdateSchedule": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the device to update.

Pattern: [a-zA-Z0-9]{24}

Required: Yes

Request Body

The request accepts the following data in JSON format.

desiredSoftwareSetId

The ID of the software set to apply.

Type: String

Pattern: [0-9]{1,9}

Required: No

name

The name of the device to update.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 64.

Pattern: `$|^[0-9\p{IsAlphabetic}+,:,.@' " -]*`

Required: No

softwareSetUpdateSchedule

An option to define if software updates should be applied within a maintenance window.

Type: String

Valid Values: `USE_MAINTENANCE_WINDOW | APPLY_IMMEDIATELY`

Required: No

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "device": {
    "arn": "string",
    "createdAt": number,
    "currentSoftwareSetId": "string",
    "desiredSoftwareSetId": "string",
    "environmentId": "string",
    "id": "string",
    "lastConnectedAt": number,
    "lastPostureAt": number,
    "model": "string",
    "name": "string",
    "pendingSoftwareSetId": "string",
    "serialNumber": "string",
    "softwareSetUpdateSchedule": "string",
    "status": "string",
    "updatedAt": number
  }
}
```

```
}  
}
```

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.

device

Describes a device.

Type: [DeviceSummary](#) object

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

The server encountered an internal error and is unable to complete the request.

retryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

resourceId

The ID of the resource associated with the request.

resourceType

The type of the resource associated with the request.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

quotaCode

The code for the quota in [Service Quotas](#).

retryAfterSeconds

The number of seconds to wait before retrying the next request.

serviceCode

The code for the service in [Service Quotas](#).

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

A list of fields that didn't validate.

reason

The reason for the exception.

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](#)

UpdateEnvironment

Updates an environment.

Request Syntax

```
PATCH /environments/id HTTP/1.1
Content-type: application/json

{
  "desiredSoftwareSetId": "string",
  "desktopArn": "string",
  "desktopEndpoint": "string",
  "deviceCreationTags": {
    "string" : "string"
  },
  "maintenanceWindow": {
    "applyTimeOf": "string",
    "daysOfTheWeek": [ "string" ],
    "endTimeHour": number,
    "endTimeMinute": number,
    "startTimeHour": number,
    "startTimeMinute": number,
    "type": "string"
  },
  "name": "string",
  "softwareSetUpdateMode": "string",
  "softwareSetUpdateSchedule": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the environment to update.

Pattern: [a-z0-9]{9}

Required: Yes

Request Body

The request accepts the following data in JSON format.

desiredSoftwareSetId

The ID of the software set to apply.

Type: String

Pattern: `[0-9]{0,9}`

Required: No

desktopArn

The Amazon Resource Name (ARN) of the desktop to stream from Amazon WorkSpaces, WorkSpaces Secure Browser, or WorkSpaces Applications.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[\w+=\/,.@-]+:[a-zA-Z0-9\-.]*:[0-9]{0,12}:[a-zA-Z0-9\-._\-]+`

Required: No

desktopEndpoint

The URL for the identity provider login (only for environments that use WorkSpaces Applications).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `(https://)[a-z0-9]+([\-\.\.]{1}[a-z0-9]+)*\.[a-z]{2,32}(:[0-9]{1,5})?(\/.*)?`

Required: No

deviceCreationTags

A map of the key-value pairs of the tag or tags to assign to the newly created devices for this environment.

Type: String to string map

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

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[A-Za-z0-9_@:.-/+]

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: [A-Za-z0-9_@:.-/+]

Required: No

[maintenanceWindow](#)

A specification for a time window to apply software updates.

Type: [MaintenanceWindow](#) object

Required: No

[name](#)

The name of the environment to update.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 64.

Pattern: \$|^[0-9\p{IsAlphabetic}+:,.'"-][0-9\p{IsAlphabetic}+=:,.@'" -]*

Required: No

[softwareSetUpdateMode](#)

An option to define which software updates to apply.

Type: String

Valid Values: USE_LATEST | USE_DESIRED

Required: No

[softwareSetUpdateSchedule](#)

An option to define if software updates should be applied within a maintenance window.

Type: String

Valid Values: USE_MAINTENANCE_WINDOW | APPLY_IMMEDIATELY

Required: No

Response Syntax

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

{
  "environment": {
    "activationCode": "string",
    "arn": "string",
    "createdAt": number,
    "desiredSoftwareSetId": "string",
    "desktopArn": "string",
    "desktopEndpoint": "string",
    "desktopType": "string",
    "id": "string",
    "maintenanceWindow": {
      "applyTimeOf": "string",
      "daysOfTheWeek": [ "string" ],
      "endTimeHour": number,
      "endTimeMinute": number,
      "startTimeHour": number,
      "startTimeMinute": number,
      "type": "string"
    },
    "name": "string",
    "pendingSoftwareSetId": "string",
    "softwareSetUpdateMode": "string",
    "softwareSetUpdateSchedule": "string",
    "updatedAt": number
  }
}
```

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.

environment

Describes an environment.

Type: [EnvironmentSummary](#) object

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

The server encountered an internal error and is unable to complete the request.

retryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

resourceId

The ID of the resource associated with the request.

resourceType

The type of the resource associated with the request.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

quotaCode

The code for the quota in [Service Quotas](#).

retryAfterSeconds

The number of seconds to wait before retrying the next request.

serviceCode

The code for the service in [Service Quotas](#).

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

A list of fields that didn't validate.

reason

The reason for the exception.

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](#)

UpdateSoftwareSet

Updates a software set.

Request Syntax

```
PATCH /softwaresets/id HTTP/1.1
Content-type: application/json

{
  "validationStatus": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the software set to update.

Pattern: [0-9]{1,9}

Required: Yes

Request Body

The request accepts the following data in JSON format.

validationStatus

An option to define if the software set has been validated.

Type: String

Valid Values: VALIDATED | NOT_VALIDATED

Required: Yes

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

The server encountered an internal error and is unable to complete the request.

retryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

The resource specified in the request was not found.

resourceId

The ID of the resource associated with the request.

resourceType

The type of the resource associated with the request.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

quotaCode

The code for the quota in [Service Quotas](#).

retryAfterSeconds

The number of seconds to wait before retrying the next request.

serviceCode

The code for the service in [Service Quotas](#).

HTTP Status Code: 429

ValidationException

The input fails to satisfy the specified constraints.

fieldList

A list of fields that didn't validate.

reason

The reason for the exception.

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 Amazon WorkSpaces Thin Client 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:

- [Device](#)
- [DeviceSummary](#)
- [Environment](#)
- [EnvironmentSummary](#)
- [MaintenanceWindow](#)
- [Software](#)
- [SoftwareSet](#)
- [SoftwareSetSummary](#)
- [ValidationExceptionField](#)

Device

Describes a thin client device.

Contents

arn

The Amazon Resource Name (ARN) of the device.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[\w+=\./,.\@-]+:[a-zA-Z0-9\-\_]+:[a-zA-Z0-9\-\_]*:[0-9]{0,12}:[a-zA-Z0-9\-\_\.\/\.\_]+`

Required: No

createdAt

The timestamp of when the device was created.

Type: Timestamp

Required: No

currentSoftwareSetId

The ID of the software set currently installed on the device.

Type: String

Pattern: `[0-9]{1,9}`

Required: No

currentSoftwareSetVersion

The version of the software set currently installed on the device.

Type: String

Required: No

desiredSoftwareSetId

The ID of the software set which the device has been set to.

Type: String

Pattern: `[0-9]{1,9}`

Required: No

environmentId

The ID of the environment the device is associated with.

Type: String

Pattern: `[a-z0-9]{9}`

Required: No

id

The ID of the device.

Type: String

Pattern: `[a-zA-Z0-9]{24}`

Required: No

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS Key Management Service key used to encrypt the device.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[\w+=\/,.@-]+:kms:[a-zA-Z0-9\-\-]*:[0-9]{0,12}:key\[a-zA-Z0-9-\-]+`

Required: No

lastConnectedAt

The timestamp of the most recent session on the device.

Type: Timestamp

Required: No

lastPostureAt

The timestamp of the most recent check-in of the device.

Type: Timestamp

Required: No

model

The model number of the device.

Type: String

Required: No

name

The name of the device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 64.

Pattern: `$|^[0-9\p{IsAlphabetic}+,:,.@' " -]*`

Required: No

pendingSoftwareSetId

The ID of the software set that is pending to be installed on the device.

Type: String

Pattern: `[0-9]{1,9}`

Required: No

pendingSoftwareSetVersion

The version of the software set that is pending to be installed on the device.

Type: String

Required: No

serialNumber

The hardware serial number of the device.

Type: String

Required: No

softwareSetComplianceStatus

Describes if the software currently installed on the device is a supported version.

Type: String

Valid Values: NONE | COMPLIANT | NOT_COMPLIANT

Required: No

softwareSetUpdateSchedule

An option to define if software updates should be applied within a maintenance window.

Type: String

Valid Values: USE_MAINTENANCE_WINDOW | APPLY_IMMEDIATELY

Required: No

softwareSetUpdateStatus

Describes if the device has a supported version of software installed.

Type: String

Valid Values: AVAILABLE | IN_PROGRESS | UP_TO_DATE

Required: No

status

The status of the device.

Type: String

Valid Values: REGISTERED | DEREGISTERING | DEREGISTERED | ARCHIVED

Required: No

tags

The tag keys and optional values for the resource.

Type: String to string map

Required: No

updatedAt

The timestamp of when the device was updated.

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

DeviceSummary

Describes a thin client device.

Contents

arn

The Amazon Resource Name (ARN) of the device.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[\w+=\/,.@-]+:[a-zA-Z0-9\-.]*:[0-9]{0,12}:[a-zA-Z0-9\-._\-]`

Required: No

createdAt

The timestamp of when the device was created.

Type: Timestamp

Required: No

currentSoftwareSetId

The ID of the software set currently installed on the device.

Type: String

Pattern: `[0-9]{1,9}`

Required: No

desiredSoftwareSetId

The ID of the software set which the device has been set to.

Type: String

Pattern: `[0-9]{1,9}`

Required: No

environmentId

The ID of the environment the device is associated with.

Type: String

Pattern: `[a-z0-9]{9}`

Required: No

id

The ID of the device.

Type: String

Pattern: `[a-zA-Z0-9]{24}`

Required: No

lastConnectedAt

The timestamp of the most recent session on the device.

Type: Timestamp

Required: No

lastPostureAt

The timestamp of the most recent check-in of the device.

Type: Timestamp

Required: No

model

The model number of the device.

Type: String

Required: No

name

The name of the device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 64.

Pattern: `$|^[0-9\p{IsAlphabetic}+;,:.@' " -]*`

Required: No

pendingSoftwareSetId

The ID of the software set that is pending to be installed on the device.

Type: String

Pattern: `[0-9]{1,9}`

Required: No

serialNumber

The hardware serial number of the device.

Type: String

Required: No

softwareSetUpdateSchedule

An option to define if software updates should be applied within a maintenance window.

Type: String

Valid Values: `USE_MAINTENANCE_WINDOW` | `APPLY_IMMEDIATELY`

Required: No

status

The status of the device.

Type: String

Valid Values: `REGISTERED` | `DEREGISTERING` | `DEREGISTERED` | `ARCHIVED`

Required: No

updatedAt

The timestamp of when the device was updated.

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

Environment

Describes an environment.

Contents

activationCode

The activation code to register a device to the environment.

Type: String

Pattern: `[a-z]{2}[a-z0-9]{6}`

Required: No

arn

The Amazon Resource Name (ARN) of the environment.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[\w+=\./, .@- ]+:[a-zA-Z0-9\ - ]+:[a-zA-Z0-9\ - ]*:[0-9]{0,12}:[a-zA-Z0-9\ - \/\.\_ ]+`

Required: No

createdAt

The timestamp of when the environment was created.

Type: Timestamp

Required: No

desiredSoftwareSetId

The ID of the software set to apply.

Type: String

Pattern: `[0-9]{1,9}`

Required: No

desktopArn

The Amazon Resource Name (ARN) of the desktop to stream from Amazon WorkSpaces, WorkSpaces Secure Browser, or WorkSpaces Applications.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[\w+=\./,.\@-]+:[a-zA-Z0-9\-\_]*:[0-9]{0,12}:[a-zA-Z0-9\-\_\.]+`

Required: No

desktopEndpoint

The URL for the identity provider login (only for environments that use WorkSpaces Applications).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `(https://)[a-z0-9]+([\-\.\_]{1}[a-z0-9]+)*\.[a-z]{2,32}(:[0-9]{1,5})?(\/.*)?`

Required: No

desktopType

The type of streaming desktop for the environment.

Type: String

Valid Values: `workspaces` | `appstream` | `workspaces-web`

Required: No

deviceCreationTags

The tag keys and optional values for the newly created devices for this environment.

Type: String to string map

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

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[A-Za-z0-9_=@:.-+/]+

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: [A-Za-z0-9_=@:.-+/]+

Required: No

id

The ID of the environment.

Type: String

Pattern: [a-z0-9]{9}

Required: No

kmsKeyArn

The Amazon Resource Name (ARN) of the AWS Key Management Service key used to encrypt the environment.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:[\w+=\/,.@-]+:kms:[a-zA-Z0-9\-*:[0-9]{0,12}:key\[a-zA-Z0-9-]+

Required: No

maintenanceWindow

A specification for a time window to apply software updates.

Type: [MaintenanceWindow](#) object

Required: No

name

The name of the environment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 64.

Pattern: `$|^[0-9\p{IsAlphabetic}+,:,.@'" -][0-9\p{IsAlphabetic}+=:,.@'" -]*`

Required: No

pendingSoftwareSetId

The ID of the software set that is pending to be installed.

Type: String

Pattern: `[0-9]{1,9}`

Required: No

pendingSoftwareSetVersion

The version of the software set that is pending to be installed.

Type: String

Required: No

registeredDevicesCount

The number of devices registered to the environment.

Type: Integer

Required: No

softwareSetComplianceStatus

Describes if the software currently installed on all devices in the environment is a supported version.

Type: String

Valid Values: `NO_REGISTERED_DEVICES` | `COMPLIANT` | `NOT_COMPLIANT`

Required: No

softwareSetUpdateMode

An option to define which software updates to apply.

Type: String

Valid Values: USE_LATEST | USE_DESIRED

Required: No

softwareSetUpdateSchedule

An option to define if software updates should be applied within a maintenance window.

Type: String

Valid Values: USE_MAINTENANCE_WINDOW | APPLY_IMMEDIATELY

Required: No

tags

The tag keys and optional values for the resource.

Type: String to string map

Required: No

updatedAt

The timestamp of when the device was updated.

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

EnvironmentSummary

Describes an environment.

Contents

activationCode

The activation code to register a device to the environment.

Type: String

Pattern: `[a-z]{2}[a-z0-9]{6}`

Required: No

arn

The Amazon Resource Name (ARN) of the environment.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[\w+=\./,.-]+:[a-zA-Z0-9\-.]*:[a-zA-Z0-9\-.]*:[a-zA-Z0-9\-.]*:[a-zA-Z0-9\-.]*`

Required: No

createdAt

The timestamp of when the environment was created.

Type: Timestamp

Required: No

desiredSoftwareSetId

The ID of the software set to apply.

Type: String

Pattern: `[0-9]{1,9}`

Required: No

desktopArn

The Amazon Resource Name (ARN) of the desktop to stream from Amazon WorkSpaces, WorkSpaces Secure Browser, or WorkSpaces Applications.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[\w+=\./, .@-]+:[a-zA-Z0-9\-\-]*:[0-9]{0,12}:[a-zA-Z0-9\-\-\.]+`

Required: No

desktopEndpoint

The URL for the identity provider login (only for environments that use WorkSpaces Applications).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `(https://)[a-z0-9]+([\-\.\.]{1}[a-z0-9]+)*\.[a-z]{2,32}(:[0-9]{1,5})?(\/.*)?`

Required: No

desktopType

The type of streaming desktop for the environment.

Type: String

Valid Values: `workspaces` | `appstream` | `workspaces-web`

Required: No

id

The ID of the environment.

Type: String

Pattern: `[a-z0-9]{9}`

Required: No

maintenanceWindow

A specification for a time window to apply software updates.

Type: [MaintenanceWindow](#) object

Required: No

name

The name of the environment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 64.

Pattern: `$|^[0-9\p{IsAlphabetic}+;,:.@'" -][0-9\p{IsAlphabetic}+;,:.@'" -]*`

Required: No

pendingSoftwareSetId

The ID of the software set that is pending to be installed.

Type: String

Pattern: `[0-9]{1,9}`

Required: No

softwareSetUpdateMode

An option to define which software updates to apply.

Type: String

Valid Values: `USE_LATEST` | `USE_DESIRED`

Required: No

softwareSetUpdateSchedule

An option to define if software updates should be applied within a maintenance window.

Type: String

Valid Values: USE_MAINTENANCE_WINDOW | APPLY_IMMEDIATELY

Required: No

updatedAt

The timestamp of when the device was updated.

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

MaintenanceWindow

Describes the maintenance window for a thin client device.

Contents

type

An option to select the default or custom maintenance window.

Type: String

Valid Values: SYSTEM | CUSTOM

Required: Yes

applyTimeOf

The option to set the maintenance window during the device local time or Universal Coordinated Time (UTC).

Type: String

Valid Values: UTC | DEVICE

Required: No

daysOfTheWeek

The days of the week during which the maintenance window is open.

Type: Array of strings

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

Valid Values: MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY | SUNDAY

Required: No

endTimeHour

The hour for the maintenance window end (00-23).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 23.

Required: No

endTimeMinute

The minutes for the maintenance window end (00-59).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 59.

Required: No

startTimeHour

The hour for the maintenance window start (00-23).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 23.

Required: No

startTimeMinute

The minutes past the hour for the maintenance window start (00-59).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 59.

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](#)

Software

Describes software.

Contents

name

The name of the software component.

Type: String

Required: No

version

The version of the software component.

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](#)

SoftwareSet

Describes a software set.

Contents

arn

The Amazon Resource Name (ARN) of the software set.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[\w+=\./,.\@-]+:[a-zA-Z0-9\-\-]+:[a-zA-Z0-9\-\-]*:[0-9]{0,12}:[a-zA-Z0-9\-\-\\/\.\_]+`

Required: No

id

The ID of the software set.

Type: String

Pattern: `[0-9]{1,9}`

Required: No

releasedAt

The timestamp of when the software set was released.

Type: Timestamp

Required: No

software

A list of the software components in the software set.

Type: Array of [Software](#) objects

Required: No

supportedUntil

The timestamp of the end of support for the software set.

Type: Timestamp

Required: No

tags

The tag keys and optional values for the resource.

Type: String to string map

Required: No

validationStatus

An option to define if the software set has been validated.

Type: String

Valid Values: VALIDATED | NOT_VALIDATED

Required: No

version

The version of the software set.

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](#)

SoftwareSetSummary

Describes a software set.

Contents

arn

The Amazon Resource Name (ARN) of the software set.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:[\w+=\./,.\@-]+:[a-zA-Z0-9\-\_]+:[a-zA-Z0-9\-\_]*:[0-9]{0,12}:[a-zA-Z0-9\-\_\.\/\.\_]+`

Required: No

id

The ID of the software set.

Type: String

Pattern: `[0-9]{1,9}`

Required: No

releasedAt

The timestamp of when the software set was released.

Type: Timestamp

Required: No

supportedUntil

The timestamp of the end of support for the software set.

Type: Timestamp

Required: No

validationStatus

An option to define if the software set has been validated.

Type: String

Valid Values: VALIDATED | NOT_VALIDATED

Required: No

version

The version of the software set.

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](#)

ValidationExceptionField

Describes a validation exception.

Contents

message

A message that describes the reason for the exception.

Type: String

Required: Yes

name

The name of the exception.

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 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*.

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 [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 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: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

MalformedHttpRequestException

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestAbortedException

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

RequestEntityTooLargeException

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

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

RequestTimeoutException

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

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

UnrecognizedClientException

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

UnknownOperationException

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 404

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400