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# Alexa For Business

**Alexa for Business API**

**API Version 2017-11-09**



## **Alexa For Business: Alexa for Business API**

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# Welcome

Alexa for Business makes it easy for you to use Alexa in your organization. Alexa for Business gives you the tools you need to manage Alexa devices, enroll your users, and assign skills, at scale. You can build your own context-aware voice skills using the Alexa Skills Kit, and the Alexa for Business APIs, and you can make these available as private skills for your organization. Alexa for Business also makes it easy to voice-enable your products and services, providing context-aware voice experiences for your customers.

This document was last published on January 17, 2018.



# Actions

The following actions are supported:

- [AssociateDeviceWithRoom](#) (p. 3)
- [AssociateSkillGroupWithRoom](#) (p. 5)
- [CreateProfile](#) (p. 7)
- [CreateRoom](#) (p. 10)
- [CreateSkillGroup](#) (p. 13)
- [CreateUser](#) (p. 15)
- [DeleteProfile](#) (p. 18)
- [DeleteRoom](#) (p. 20)
- [DeleteRoomSkillParameter](#) (p. 22)
- [DeleteSkillGroup](#) (p. 24)
- [DeleteUser](#) (p. 26)
- [DisassociateDeviceFromRoom](#) (p. 28)
- [DisassociateSkillGroupFromRoom](#) (p. 30)
- [GetDevice](#) (p. 32)
- [GetProfile](#) (p. 34)
- [GetRoom](#) (p. 36)
- [GetRoomSkillParameter](#) (p. 38)
- [GetSkillGroup](#) (p. 40)
- [ListSkills](#) (p. 42)
- [ListTags](#) (p. 44)
- [PutRoomSkillParameter](#) (p. 46)
- [ResolveRoom](#) (p. 48)
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- [SendInvitation](#) (p. 67)
- [StartDeviceSync](#) (p. 69)
- [TagResource](#) (p. 71)
- [UntagResource](#) (p. 73)
- [UpdateDevice](#) (p. 75)
- [UpdateProfile](#) (p. 77)
- [UpdateRoom](#) (p. 80)
- [UpdateSkillGroup](#) (p. 82)

# AssociateDeviceWithRoom

Associates a device to a given room. This applies all the settings from the room profile to the device, and all the skills in any skill groups added to that room. This operation requires the device to be online, or a manual sync is required.

## Request Syntax

```
{  
  "DeviceArn": "string",  
  "RoomArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### DeviceArn (p. 3)

The ARN of the device to associate to a room. Required.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\. \{0,1023\}`

Required: No

### RoomArn (p. 3)

The ARN of the room with which to associate the device. Required.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\. \{0,1023\}`

Required: No

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

### LimitExceededException

You are performing an action that would put you beyond your account's limits. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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

## AssociateSkillGroupWithRoom

Associates a skill group to a given room. This enables all skills in the associated skill group on all devices in the room.

### Request Syntax

```
{  
  "RoomArn": "string",  
  "SkillGroupArn": "string"  
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

#### RoomArn (p. 5)

The ARN of the room with which to associate the skill group. Required.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\. \{0,1023\}`

Required: No

#### SkillGroupArn (p. 5)

The ARN of the skill group to associate with a room. Required.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\. \{0,1023\}`

Required: No

### Response Elements

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

### Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

### See Also

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

- [AWS Command Line Interface](#)

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

# CreateProfile

Creates a new room profile with the specified details.

## Request Syntax

```
{  
  "Address": "string",  
  "ClientRequestToken": "string",  
  "DistanceUnit": "string",  
  "MaxVolumeLimit": number,  
  "ProfileName": "string",  
  "PSTNEnabled": boolean,  
  "SetupModeDisabled": boolean,  
  "TemperatureUnit": "string",  
  "Timezone": "string",  
  "WakeWord": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### Address (p. 7)

The valid address for the room.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: Yes

### ClientRequestToken (p. 7)

The user-specified token that is used during the creation of a profile.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 150.

Pattern: [a-zA-Z0-9][a-zA-Z0-9\_-]\*

Required: No

### DistanceUnit (p. 7)

The distance unit to be used by devices in the profile.

Type: String

Valid Values: METRIC | IMPERIAL

Required: Yes

### MaxVolumeLimit (p. 7)

The maximum volume limit for a room profile.

Type: Integer

Required: No

#### **ProfileName (p. 7)**

The name of a room profile.

Type: String

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

Pattern: [ \u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFD  
\u10000-\u10FFFF ]\*

Required: Yes

#### **PSTNEnabled (p. 7)**

Whether PSTN calling is enabled.

Type: Boolean

Required: No

#### **SetupModeDisabled (p. 7)**

Whether room profile setup is enabled.

Type: Boolean

Required: No

#### **TemperatureUnit (p. 7)**

The temperature unit to be used by devices in the profile.

Type: String

Valid Values: FAHRENHEIT | CELSIUS

Required: Yes

#### **Timezone (p. 7)**

The time zone used by a room profile.

Type: String

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

Required: Yes

#### **WakeWord (p. 7)**

A wake word for Alexa, Echo, Amazon, or a computer.

Type: String

Valid Values: ALEXA | AMAZON | ECHO | COMPUTER

Required: Yes

## Response Syntax

```
{
```

```
"ProfileArn": "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.

### ProfileArn (p. 8)

The ARN of the newly created room profile in the response.

Type: String

Pattern: `arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[^/].{0,1023}`

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

### AlreadyExistsException

The resource being created already exists. HTTP Status Code: 400

HTTP Status Code: 400

### LimitExceededException

You are performing an action that would put you beyond your account's limits. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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



# CreateRoom

Creates a room with the specified details.

## Request Syntax

```
{
  "ClientRequestToken": "string",
  "Description": "string",
  "ProfileArn": "string",
  "ProviderCalendarId": "string",
  "RoomName": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### **ClientRequestToken (p. 10)**

A unique, user-specified identifier for this request that ensures idempotency.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 150.

Pattern: [a-zA-Z0-9][a-zA-Z0-9\_-]\*

Required: No

### **Description (p. 10)**

The description for the room.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Pattern: [\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u10000-\u10FFFF]\*

Required: No

### **ProfileArn (p. 10)**

The profile ARN for the room.

Type: String

Pattern: arn:[a-z0-9-\.] {1,63}:[a-z0-9-\.] {0,63}:[a-z0-9-\.] {0,63}:[a-z0-9-\.] {0,63}:[^/]. {0,1023}

Required: No

#### **ProviderCalendarId (p. 10)**

The calendar ARN for the room.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Required: No

#### **RoomName (p. 10)**

The name for the room.

Type: String

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

Pattern: [ \u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF  
\u10000-\u10FFFF]\*

Required: Yes

#### **Tags (p. 10)**

The tags for the room.

Type: Array of [Tag \(p. 103\)](#) objects

Required: No

## Response Syntax

```
{  
  "RoomArn": "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.

#### **RoomArn (p. 11)**

The ARN of the newly created room in the response.

Type: String

Pattern: arn:[a-z0-9-\.\.]{1,63}:[a-z0-9-\.\.]{0,63}:[a-z0-9-\.\.]{0,63}:[a-z0-9-\.\.]{0,63}:[^/].{0,1023}

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

### **AlreadyExistsException**

The resource being created already exists. HTTP Status Code: 400

HTTP Status Code: 400

### **LimitExceededException**

You are performing an action that would put you beyond your account's limits. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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

## CreateSkillGroup

Creates a skill group with a specified name and description.

### Request Syntax

```
{  
  "ClientRequestToken": "string",  
  "Description": "string",  
  "SkillGroupName": "string"  
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

#### **ClientRequestToken (p. 13)**

A unique, user-specified identifier for this request that ensures idempotency.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 150.

Pattern: [a-zA-Z0-9][a-zA-Z0-9\_-]\*

Required: No

#### **Description (p. 13)**

The description for the skill group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Pattern: [\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u10000-\u10FFFF]\*

Required: No

#### **SkillGroupName (p. 13)**

The name for the skill group.

Type: String

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

Pattern: [\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u10000-\u10FFFF]\*

Required: Yes

## Response Syntax

```
{  
  "SkillGroupArn": "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.

### **SkillGroupArn** (p. 14)

The ARN of the newly created skill group in the response.

Type: String

Pattern: `arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[^/].{0,1023}`

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

### **AlreadyExistsException**

The resource being created already exists. HTTP Status Code: 400

HTTP Status Code: 400

### **LimitExceededException**

You are performing an action that would put you beyond your account's limits. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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

## CreateUser

Creates a user.

### Request Syntax

```
{
  "ClientRequestToken": "string",
  "Email": "string",
  "FirstName": "string",
  "LastName": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "UserId": "string"
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 106).

The request accepts the following data in JSON format.

#### **ClientRequestToken** (p. 15)

A unique, user-specified identifier for this request that ensures idempotency.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 150.

Pattern: [a-zA-Z0-9][a-zA-Z0-9\_-]\*

Required: No

#### **Email** (p. 15)

The email address for the user.

Type: String

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

Pattern: ([0-9a-zA-Z]( [+-. \w]\* [0-9a-zA-Z] )\*)@[0-9a-zA-Z]([- \w]\* [0-9a-zA-Z] \. )+[a-zA-Z]{2,9}

Required: No

#### **FirstName** (p. 15)

The first name for the user.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 30.

Pattern: ([A-Za-z\-' 0-9.\_]|\p{IsLetter})\*

Required: No

#### LastName (p. 15)

The last name for the user.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 30.

Pattern: ([A-Za-z\-' 0-9.\_]|\p{IsLetter})\*

Required: No

#### Tags (p. 15)

The tags for the user.

Type: Array of [Tag \(p. 103\)](#) objects

Required: No

#### UserId (p. 15)

The ARN for the user.

Type: String

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

Pattern: [a-zA-Z0-9@\_+.-]\*

Required: Yes

## Response Syntax

```
{  
  "UserArn": "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.

#### UserArn (p. 16)

The ARN of the newly created user in the response.

Type: String

Pattern: arn:[a-z0-9-\.] {1,63}:[a-z0-9-\.] {0,63}:[a-z0-9-\.] {0,63}:[a-z0-9-\.] {0,63}:[^/]. {0,1023}

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

### **LimitExceededException**

You are performing an action that would put you beyond your account's limits. HTTP Status Code: 400

HTTP Status Code: 400

### **ResourceInUseException**

The resource in the request is already in use. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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



# DeleteProfile

Deletes a room profile by the profile ARN.

## Request Syntax

```
{  
  "ProfileArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### ProfileArn (p. 18)

The ARN of the room profile to delete. Required.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\. \{0,1023\}`

Required: No

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

### NotFoundException

The resource is not found. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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

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

# DeleteRoom

Deletes a room by the room ARN.

## Request Syntax

```
{  
  "RoomArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### RoomArn (p. 20)

The ARN of the room to delete. Required.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\{0,1023\}`

Required: No

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

### NotFoundException

The resource is not found. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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

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

# DeleteRoomSkillParameter

Deletes room skill parameter details by room, skill, and parameter key ID.

## Request Syntax

```
{  
  "ParameterKey": "string",  
  "RoomArn": "string",  
  "SkillId": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### ParameterKey (p. 22)

The room skill parameter key for which to remove details.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

### RoomArn (p. 22)

The ARN of the room from which to remove the room skill parameter details.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\{0,1023\}`

Required: No

### SkillId (p. 22)

The ID of the skill from which to remove the room skill parameter details.

Type: String

Pattern: `(^amzn1\.ask\.skill\[0-9a-f\-\]\{1,200\})|(^amzn1\.echo-sdk-ams\.app\[0-9a-f\-\]\{1,200\})`

Required: Yes

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

## See Also

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

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

# DeleteSkillGroup

Deletes a skill group by skill group ARN.

## Request Syntax

```
{  
  "SkillGroupArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### **SkillGroupArn (p. 24)**

The ARN of the skill group to delete. Required.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\. \{0,1023\}`

Required: No

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

### **NotFoundException**

The resource is not found. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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

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



## DeleteUser

Deletes a specified user by user ARN and enrollment ARN.

### Request Syntax

```
{  
  "EnrollmentId": "string",  
  "UserArn": "string"  
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

#### **EnrollmentId (p. 26)**

The ARN of the user's enrollment in the organization. Required.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: Yes

#### **UserArn (p. 26)**

The ARN of the user to delete in the organization. Required.

Type: String

Pattern: `arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[^/].{0,1023}`

Required: No

### Response Elements

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

### Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

#### **NotFoundException**

The resource is not found. HTTP Status Code: 400

HTTP Status Code: 400

### See Also

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

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

# DisassociateDeviceFromRoom

Disassociates a device from its current room. The device continues to be connected to the Wi-Fi network and is still registered to the account. The device settings and skills are removed from the room.

## Request Syntax

```
{  
  "DeviceArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### DeviceArn (p. 28)

The ARN of the device to disassociate from a room. Required.

Type: String

Pattern: `arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[^/].{0,1023}`

Required: No

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

## See Also

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

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



# DisassociateSkillGroupFromRoom

Disassociates a skill group from a specified room. This disables all skills in the skill group on all devices in the room.

## Request Syntax

```
{  
  "RoomArn": "string",  
  "SkillGroupArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 106).

The request accepts the following data in JSON format.

### RoomArn (p. 30)

The ARN of the room from which the skill group is to be disassociated. Required.

Type: String

Pattern: `arn:[a-z0-9-\.] {1,63}:[a-z0-9-\.] {0,63}:[a-z0-9-\.] {0,63}:[a-z0-9-\.] {0,63}:[^/]. {0,1023}`

Required: No

### SkillGroupArn (p. 30)

The ARN of the skill group to disassociate from a room. Required.

Type: String

Pattern: `arn:[a-z0-9-\.] {1,63}:[a-z0-9-\.] {0,63}:[a-z0-9-\.] {0,63}:[a-z0-9-\.] {0,63}:[^/]. {0,1023}`

Required: No

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 108).

## See Also

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

- [AWS Command Line Interface](#)

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

# GetDevice

Gets the details of a device by device ARN.

## Request Syntax

```
{  
  "DeviceArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### DeviceArn (p. 32)

The ARN of the device for which to request details. Required.

Type: String

Pattern: `arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[^/].{0,1023}`

Required: No

## Response Syntax

```
{  
  "Device": {  
    "DeviceArn": "string",  
    "DeviceName": "string",  
    "DeviceSerialNumber": "string",  
    "DeviceStatus": "string",  
    "DeviceType": "string",  
    "MacAddress": "string",  
    "RoomArn": "string",  
    "SoftwareVersion": "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.

### Device (p. 32)

The details of the device requested. Required.

Type: [Device \(p. 85\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

### **NotFoundException**

The resource is not found. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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



# GetProfile

Gets the details of a room profile by profile ARN.

## Request Syntax

```
{  
  "ProfileArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### ProfileArn (p. 34)

The ARN of the room profile for which to request details. Required.

Type: String

Pattern: arn:[a-z0-9-\.] {1,63}:[a-z0-9-\.] {0,63}:[a-z0-9-\.] {0,63}:[a-z0-9-\.] {0,63}:[^/].{0,1023}

Required: No

## Response Syntax

```
{  
  "Profile": {  
    "Address": "string",  
    "DistanceUnit": "string",  
    "MaxVolumeLimit": number,  
    "ProfileArn": "string",  
    "ProfileName": "string",  
    "PSTNEnabled": boolean,  
    "SetupModeDisabled": boolean,  
    "TemperatureUnit": "string",  
    "Timezone": "string",  
    "WakeWord": "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.

### Profile (p. 34)

The details of the room profile requested. Required.

Type: [Profile \(p. 90\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

### **NotFoundException**

The resource is not found. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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

# GetRoom

Gets room details by room ARN.

## Request Syntax

```
{  
  "RoomArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### RoomArn (p. 36)

The ARN of the room for which to request details. Required.

Type: String

Pattern: `arn:[a-z0-9-\.\.]{1,63}:[a-z0-9-\.\.]{0,63}:[a-z0-9-\.\.]{0,63}:[a-z0-9-\.\.]{0,63}:[^/].{0,1023}`

Required: No

## Response Syntax

```
{  
  "Room": {  
    "Description": "string",  
    "ProfileArn": "string",  
    "ProviderCalendarId": "string",  
    "RoomArn": "string",  
    "RoomName": "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.

### Room (p. 36)

The details of the room requested.

Type: [Room \(p. 94\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

### **NotFoundException**

The resource is not found. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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

# GetRoomSkillParameter

Gets room skill parameter details by room, skill, and parameter key ARN.

## Request Syntax

```
{  
  "ParameterKey": "string",  
  "RoomArn": "string",  
  "SkillId": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### ParameterKey (p. 38)

The room skill parameter key for which to get details. Required.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

### RoomArn (p. 38)

The ARN of the room from which to get the room skill parameter details.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\. \{0,1023\}`

Required: No

### SkillId (p. 38)

The ARN of the skill from which to get the room skill parameter details. Required.

Type: String

Pattern: `(^amzn1\.ask\.skill\. [0-9a-f\-\]{1,200})|(^amzn1\.echo-sdk-ams\.app\. [0-9a-f\-\]{1,200})`

Required: Yes

## Response Syntax

```
{  
  "RoomSkillParameter": {  
    "ParameterKey": "string",  
    "ParameterValue": "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.

### **RoomSkillParameter** (p. 38)

The details of the room skill parameter requested. Required.

Type: [RoomSkillParameter](#) (p. 98) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 108).

### **NotFoundException**

The resource is not found. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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

# GetSkillGroup

Gets skill group details by skill group ARN.

## Request Syntax

```
{  
  "SkillGroupArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 106).

The request accepts the following data in JSON format.

### **SkillGroupArn** (p. 40)

The ARN of the skill group for which to get details. Required.

Type: String

Pattern: arn:[a-z0-9-\.]<sup>{1,63}</sup>:[a-z0-9-\.]<sup>{0,63}</sup>:[a-z0-9-\.]<sup>{0,63}</sup>:[a-z0-9-\.]<sup>{0,63}</sup>:[^/].<sup>{0,1023}</sup>

Required: No

## Response Syntax

```
{  
  "SkillGroup": {  
    "Description": "string",  
    "SkillGroupArn": "string",  
    "SkillGroupName": "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.

### **SkillGroup** (p. 40)

The details of the skill group requested. Required.

Type: [SkillGroup](#) (p. 99) object

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 108).

### **NotFoundException**

The resource is not found. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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



## ListSkills

Lists all enabled skills in a specific skill group.

### Request Syntax

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

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

#### MaxResults (p. 42)

The maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved. Required.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

#### NextToken (p. 42)

An optional token returned from a prior request. Use this token for pagination of results from this action. If this parameter is specified, the response includes only results beyond the token, up to the value specified by `MaxResults`. Required.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No

#### SkillGroupArn (p. 42)

The ARN of the skill group for which to list enabled skills. Required.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\. \{0,1023\}`

Required: No

### Response Syntax

```
{
```

```
"NextToken": "string",  
"SkillSummaries": [  
  {  
    "SkillId": "string",  
    "SkillName": "string",  
    "SupportsLinking": boolean  
  }  
]
```

## Response Elements

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

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

### [NextToken \(p. 42\)](#)

The token returned to indicate that there is more data available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

### [SkillSummaries \(p. 42\)](#)

The list of enabled skills requested. Required.

Type: Array of [SkillSummary \(p. 101\)](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

## See Also

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

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

## ListTags

Lists all tags for a specific resource.

### Request Syntax

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

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 106).

The request accepts the following data in JSON format.

#### Arn (p. 44)

The ARN of the specific resource for which to list tags. Required.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\. \{0,1023\}`

Required: Yes

#### MaxResults (p. 44)

The maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

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

Required: No

#### NextToken (p. 44)

An optional token returned from a prior request. Use this token for pagination of results from this action. If this parameter is specified, the response includes only results beyond the token, up to the value specified by `MaxResults`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No

### Response Syntax

```
{
```

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

## Response Elements

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

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

### NextToken (p. 44)

The token returned to indicate that there is more data available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

### Tags (p. 44)

The list of tags requested for the specific resource.

Type: Array of [Tag \(p. 103\)](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

### NotFoundException

The resource is not found. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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

# PutRoomSkillParameter

Updates room skill parameter details by room, skill, and parameter key ID. Not all skills have a room skill parameter.

## Request Syntax

```
{
  "RoomArn": "string",
  "RoomSkillParameter": {
    "ParameterKey": "string",
    "ParameterValue": "string"
  },
  "SkillId": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### RoomArn (p. 46)

The ARN of the room associated with the room skill parameter. Required.

Type: String

Pattern: `arn:[a-z0-9-\.\ ]{1,63}:[a-z0-9-\.\ ]{0,63}:[a-z0-9-\.\ ]{0,63}:[a-z0-9-\.\ ]{0,63}:[^/].{0,1023}`

Required: No

### RoomSkillParameter (p. 46)

The updated room skill parameter. Required.

Type: [RoomSkillParameter \(p. 98\)](#) object

Required: Yes

### SkillId (p. 46)

The ARN of the skill associated with the room skill parameter. Required.

Type: String

Pattern: `(^amzn1\.ask\.skill\.[0-9a-f\-]{1,200})|(^amzn1\.echo-sdk-ams\.app\.[0-9a-f\-]{1,200})`

Required: Yes

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

## See Also

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

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

# ResolveRoom

Determines the details for the room from which a skill request was invoked. This operation is used by skill developers.

## Request Syntax

```
{
  "SkillId": "string",
  "UserId": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 106).

The request accepts the following data in JSON format.

### SkillId (p. 48)

The ARN of the skill that was requested. Required.

Type: String

Pattern: (^amzn1\.ask\.skill\[0-9a-f\-\]{1,200})|(^amzn1\.echo-sdk-ams\.app\[0-9a-f\-\]{1,200})

Required: Yes

### UserId (p. 48)

The ARN of the user. Required.

Type: String

Pattern: amzn1\[A-Za-z0-9+-\./=\]{1,300}

Required: Yes

## Response Syntax

```
{
  "RoomArn": "string",
  "RoomName": "string",
  "RoomSkillParameters": [
    {
      "ParameterKey": "string",
      "ParameterValue": "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.

#### **RoomArn (p. 48)**

The ARN of the room from which the skill request was invoked.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\. \{0,1023\}`

#### **RoomName (p. 48)**

The name of the room from which the skill request was invoked.

Type: String

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

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u10000-\u10FFFF]*`

#### **RoomSkillParameters (p. 48)**

Response to get the room profile request. Required.

Type: Array of [RoomSkillParameter \(p. 98\)](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

#### **NotFoundException**

The resource is not found. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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



# RevokeInvitation

Revokes an invitation and invalidates the enrollment URL.

## Request Syntax

```
{  
  "EnrollmentId": "string",  
  "UserArn": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### EnrollmentId (p. 50)

The ARN of the enrollment invitation to revoke. Required.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: No

### UserArn (p. 50)

The ARN of the user for whom to revoke an enrollment invitation. Required.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\. \{0,1023\}`

Required: No

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

### NotFoundException

The resource is not found. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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

# SearchDevices

Searches devices and lists the ones that meet a set of filter criteria.

## Request Syntax

```
{
  "Filters": [
    {
      "Key": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string",
  "SortCriteria": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### Filters (p. 52)

The filters to use to list a specified set of devices. Supported filter keys are DeviceName, DeviceStatus, RoomName, DeviceType, DeviceSerialNumber, and UnassociatedOnly.

Type: Array of [Filter \(p. 89\)](#) objects

Array Members: Maximum number of 25 items.

Required: No

### MaxResults (p. 52)

The maximum number of results to include in the response. If more results exist than the specified MaxResults value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

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

Required: No

### NextToken (p. 52)

An optional token returned from a prior request. Use this token for pagination of results from this action. If this parameter is specified, the response includes only results beyond the token, up to the value specified by MaxResults.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No

### [SortCriteria \(p. 52\)](#)

The sort order to use in listing the specified set of devices. Supported sort keys are DeviceName, DeviceStatus, RoomName, DeviceType, and DeviceSerialNumber.

Type: Array of [Sort \(p. 102\)](#) objects

Array Members: Maximum number of 25 items.

Required: No

## Response Syntax

```
{
  "Devices": [
    {
      "DeviceArn": "string",
      "DeviceName": "string",
      "DeviceSerialNumber": "string",
      "DeviceStatus": "string",
      "DeviceType": "string",
      "MacAddress": "string",
      "RoomArn": "string",
      "RoomName": "string",
      "SoftwareVersion": "string"
    }
  ],
  "NextToken": "string",
  "TotalCount": 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.

### [Devices \(p. 53\)](#)

The devices that meet the specified set of filter criteria, in sort order.

Type: Array of [DeviceData \(p. 87\)](#) objects

### [NextToken \(p. 53\)](#)

The token returned to indicate that there is more data available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

### [TotalCount \(p. 53\)](#)

The total number of devices returned.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

## See Also

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

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

# SearchProfiles

Searches room profiles and lists the ones that meet a set of filter criteria.

## Request Syntax

```
{
  "Filters": [
    {
      "Key": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string",
  "SortCriteria": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### Filters (p. 55)

The filters to use to list a specified set of room profiles. Supported filter keys are ProfileName and Address. Required.

Type: Array of [Filter \(p. 89\)](#) objects

Array Members: Maximum number of 25 items.

Required: No

### MaxResults (p. 55)

The maximum number of results to include in the response. If more results exist than the specified MaxResults value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

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

Required: No

### NextToken (p. 55)

An optional token returned from a prior request. Use this token for pagination of results from this action. If this parameter is specified, the response includes only results beyond the token, up to the value specified by MaxResults.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No

### SortCriteria (p. 55)

The sort order to use in listing the specified set of room profiles. Supported sort keys are ProfileName and Address.

Type: Array of [Sort \(p. 102\)](#) objects

Array Members: Maximum number of 25 items.

Required: No

## Response Syntax

```
{
  "NextToken": "string",
  "Profiles": [
    {
      "Address": "string",
      "DistanceUnit": "string",
      "ProfileArn": "string",
      "ProfileName": "string",
      "TemperatureUnit": "string",
      "Timezone": "string",
      "WakeWord": "string"
    }
  ],
  "TotalCount": 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.

### NextToken (p. 56)

The token returned to indicate that there is more data available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

### Profiles (p. 56)

The profiles that meet the specified set of filter criteria, in sort order.

Type: Array of [ProfileData \(p. 92\)](#) objects

### TotalCount (p. 56)

The total number of room profiles returned.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

## See Also

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

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



# SearchRooms

Searches rooms and lists the ones that meet a set of filter and sort criteria.

## Request Syntax

```
{
  "Filters": [
    {
      "Key": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string",
  "SortCriteria": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### Filters (p. 58)

The filters to use to list a specified set of rooms. The supported filter keys are RoomName and ProfileName.

Type: Array of [Filter \(p. 89\)](#) objects

Array Members: Maximum number of 25 items.

Required: No

### MaxResults (p. 58)

The maximum number of results to include in the response. If more results exist than the specified MaxResults value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

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

Required: No

### NextToken (p. 58)

An optional token returned from a prior request. Use this token for pagination of results from this action. If this parameter is specified, the response includes only results beyond the token, up to the value specified by MaxResults.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No

### SortCriteria (p. 58)

The sort order to use in listing the specified set of rooms. The supported sort keys are RoomName and ProfileName.

Type: Array of [Sort \(p. 102\)](#) objects

Array Members: Maximum number of 25 items.

Required: No

## Response Syntax

```
{
  "NextToken": "string",
  "Rooms": [
    {
      "Description": "string",
      "ProfileArn": "string",
      "ProfileName": "string",
      "ProviderCalendarId": "string",
      "RoomArn": "string",
      "RoomName": "string"
    }
  ],
  "TotalCount": 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.

### NextToken (p. 59)

The token returned to indicate that there is more data available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

### Rooms (p. 59)

The rooms that meet the specified set of filter criteria, in sort order.

Type: Array of [RoomData \(p. 96\)](#) objects

### TotalCount (p. 59)

The total number of rooms returned.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

## See Also

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

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

# SearchSkillGroups

Searches skill groups and lists the ones that meet a set of filter and sort criteria.

## Request Syntax

```
{
  "Filters": [
    {
      "Key": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string",
  "SortCriteria": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### Filters (p. 61)

The filters to use to list a specified set of skill groups. The supported filter key is SkillGroupName.

Type: Array of [Filter \(p. 89\)](#) objects

Array Members: Maximum number of 25 items.

Required: No

### MaxResults (p. 61)

The maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved.

Type: Integer

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

Required: No

### NextToken (p. 61)

An optional token returned from a prior request. Use this token for pagination of results from this action. If this parameter is specified, the response includes only results beyond the token, up to the value specified by `MaxResults`. Required.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No

### [SortCriteria \(p. 61\)](#)

The sort order to use in listing the specified set of skill groups. The supported sort key is SkillGroupName.

Type: Array of [Sort \(p. 102\)](#) objects

Array Members: Maximum number of 25 items.

Required: No

## Response Syntax

```
{
  "NextToken": "string",
  "SkillGroups": [
    {
      "Description": "string",
      "SkillGroupArn": "string",
      "SkillGroupName": "string"
    }
  ],
  "TotalCount": 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.

### [NextToken \(p. 62\)](#)

The token returned to indicate that there is more data available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

### [SkillGroups \(p. 62\)](#)

The skill groups that meet the filter criteria, in sort order.

Type: Array of [SkillGroupData \(p. 100\)](#) objects

### [TotalCount \(p. 62\)](#)

The total number of skill groups returned.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

## See Also

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

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

# SearchUsers

Searches users and lists the ones that meet a set of filter and sort criteria.

## Request Syntax

```
{
  "Filters": [
    {
      "Key": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string",
  "SortCriteria": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### [Filters \(p. 64\)](#)

The filters to use for listing a specific set of users. Required. Supported filter keys are `UserId`, `FirstName`, `LastName`, `Email`, and `EnrollmentStatus`.

Type: Array of [Filter \(p. 89\)](#) objects

Array Members: Maximum number of 25 items.

Required: No

### [MaxResults \(p. 64\)](#)

The maximum number of results to include in the response. If more results exist than the specified `MaxResults` value, a token is included in the response so that the remaining results can be retrieved. Required.

Type: Integer

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

Required: No

### [NextToken \(p. 64\)](#)

An optional token returned from a prior request. Use this token for pagination of results from this action. If this parameter is specified, the response includes only results beyond the token, up to the value specified by `MaxResults`. Required.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Required: No

#### **SortCriteria (p. 64)**

The sort order to use in listing the filtered set of users. Required. Supported sort keys are UserId, FirstName, LastName, Email, and EnrollmentStatus.

Type: Array of [Sort \(p. 102\)](#) objects

Array Members: Maximum number of 25 items.

Required: No

## Response Syntax

```
{
  "NextToken": "string",
  "TotalCount": number,
  "Users": [
    {
      "Email": "string",
      "EnrollmentId": "string",
      "EnrollmentStatus": "string",
      "FirstName": "string",
      "LastName": "string",
      "UserArn": "string"
    }
  ]
}
```

## Response Elements

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

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

#### **NextToken (p. 65)**

The token returned to indicate that there is more data available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

#### **TotalCount (p. 65)**

The total number of users returned.

Type: Integer

#### **Users (p. 65)**

The users that meet the specified set of filter criteria, in sort order.

Type: Array of [UserData \(p. 104\)](#) objects



## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

## See Also

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

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

## SendInvitation

Sends an enrollment invitation email with a URL to a user. The URL is valid for 72 hours or until you call this operation again, whichever comes first.

### Request Syntax

```
{  
  "UserArn": "string"  
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 106).

The request accepts the following data in JSON format.

#### **UserArn** (p. 67)

The ARN of the user to whom to send an invitation. Required.

Type: String

Pattern: arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[^/].{0,1023}

Required: No

### Response Elements

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

### Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 108).

#### **InvalidUserStatusException**

The attempt to update a user is invalid due to the user's current status. HTTP Status Code: 400

HTTP Status Code: 400

#### **NotFoundException**

The resource is not found. HTTP Status Code: 400

HTTP Status Code: 400

### See Also

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

- [AWS Command Line Interface](#)

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

## StartDeviceSync

Resets a device and its account to the known default settings by clearing all information and settings set by previous users.

### Request Syntax

```
{
  "DeviceArn": "string",
  "Features": [ "string" ],
  "RoomArn": "string"
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

#### DeviceArn (p. 69)

The ARN of the device to sync. Required.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\. \{0,1023\}`

Required: No

#### Features (p. 69)

Request structure to start the device sync. Required.

Type: Array of strings

Valid Values: `BLUETOOTH | VOLUME | NOTIFICATIONS | LISTS | SKILLS | ALL`

Required: Yes

#### RoomArn (p. 69)

The ARN of the room with which the device to sync is associated. Required.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\. \{0,1023\}`

Required: No

### Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

## See Also

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

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

# TagResource

Adds metadata tags to a specified resource.

## Request Syntax

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

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### Arn (p. 71)

The ARN of the resource to which to add metadata tags. Required.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\{0,1023\}`

Required: Yes

### Tags (p. 71)

The tags to be added to the specified resource. Do not provide system tags. Required.

Type: Array of [Tag \(p. 103\)](#) objects

Required: Yes

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

### NotFoundException

The resource is not found. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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

# UntagResource

Removes metadata tags from a specified resource.

## Request Syntax

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

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### Arn (p. 73)

The ARN of the resource from which to remove metadata tags. Required.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\. \{0,1023\}`

Required: Yes

### TagKeys (p. 73)

The tags to be removed from the specified resource. Do not provide system tags. Required.

Type: Array of strings

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

Pattern: `^([\p{L}\p{Z}\p{N}_.:/=+\-@]*)$`

Required: Yes

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

### NotFoundException

The resource is not found. HTTP Status Code: 400

HTTP Status Code: 400



## See Also

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

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

# UpdateDevice

Updates the device name by device ARN.

## Request Syntax

```
{  
  "DeviceArn": "string",  
  "DeviceName": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 106).

The request accepts the following data in JSON format.

### DeviceArn (p. 75)

The ARN of the device to update. Required.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^\./]\{0,1023\}`

Required: No

### DeviceName (p. 75)

The updated device name. Required.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 100.

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u10000-\u10FFFF]*`

Required: No

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 108).

### NotFoundException

The resource is not found. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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

# UpdateProfile

Updates an existing room profile by room profile ARN.

## Request Syntax

```
{  
  "Address": "string",  
  "DistanceUnit": "string",  
  "MaxVolumeLimit": number,  
  "ProfileArn": "string",  
  "ProfileName": "string",  
  "PSTNEnabled": boolean,  
  "SetupModeDisabled": boolean,  
  "TemperatureUnit": "string",  
  "Timezone": "string",  
  "WakeWord": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 106).

The request accepts the following data in JSON format.

### Address (p. 77)

The updated address for the room profile.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

### DistanceUnit (p. 77)

The updated distance unit for the room profile.

Type: String

Valid Values: METRIC | IMPERIAL

Required: No

### MaxVolumeLimit (p. 77)

The updated maximum volume limit for the room profile.

Type: Integer

Required: No

### ProfileArn (p. 77)

The ARN of the room profile to update. Required.

Type: String

Pattern: arn:[a-z0-9-\.] {1,63}:[a-z0-9-\.] {0,63}:[a-z0-9-\.] {0,63}:[a-z0-9-\.] {0,63}:[^/]. {0,1023}

Required: No

#### **ProfileName (p. 77)**

The updated name for the room profile.

Type: String

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

Pattern: [ \u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF  
\u1000-\u10FFFF ]\*

Required: No

#### **PSTNEnabled (p. 77)**

Whether the PSTN setting of the room profile is enabled.

Type: Boolean

Required: No

#### **SetupModeDisabled (p. 77)**

Whether the setup mode of the profile is enabled.

Type: Boolean

Required: No

#### **TemperatureUnit (p. 77)**

The updated temperature unit for the room profile.

Type: String

Valid Values: FAHRENHEIT | CELSIUS

Required: No

#### **Timezone (p. 77)**

The updated timezone for the room profile.

Type: String

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

Required: No

#### **WakeWord (p. 77)**

The updated wake word for the room profile.

Type: String

Valid Values: ALEXA | AMAZON | ECHO | COMPUTER

Required: No

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

### **NameInUseException**

The name sent in the request is already in use. HTTP Status Code: 400

HTTP Status Code: 400

### **NotFoundException**

The resource is not found. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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

# UpdateRoom

Updates room details by room ARN.

## Request Syntax

```
{  
  "Description": "string",  
  "ProfileArn": "string",  
  "ProviderCalendarId": "string",  
  "RoomArn": "string",  
  "RoomName": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### Description (p. 80)

The updated description for the room.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Pattern: [\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u1000-\u10FFFF]\*

Required: No

### ProfileArn (p. 80)

The updated profile ARN for the room.

Type: String

Pattern: arn:[a-z0-9-\.\.]{1,63}:[a-z0-9-\.\.]{0,63}:[a-z0-9-\.\.]{0,63}:[a-z0-9-\.\.]{0,63}:[^/].{0,1023}

Required: No

### ProviderCalendarId (p. 80)

The updated provider calendar ARN for the room.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Required: No

### RoomArn (p. 80)

The ARN of the room to update.

Type: String

Pattern: `arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[^/].{0,1023}`

Required: No

#### **RoomName (p. 80)**

The updated name for the room.

Type: String

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

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u10000-\u10FFFF]*`

Required: No

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

#### **NameInUseException**

The name sent in the request is already in use. HTTP Status Code: 400

HTTP Status Code: 400

#### **NotFoundException**

The resource is not found. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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



# UpdateSkillGroup

Updates skill group details by skill group ARN.

## Request Syntax

```
{  
  "Description": "string",  
  "SkillGroupArn": "string",  
  "SkillGroupName": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 106\)](#).

The request accepts the following data in JSON format.

### Description (p. 82)

The updated description for the skill group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFD\u1000-\u10FFFF]*`

Required: No

### SkillGroupArn (p. 82)

The ARN of the skill group to update.

Type: String

Pattern: `arn:[a-z0-9-\.] {1,63}:[a-z0-9-\.] {0,63}:[a-z0-9-\.] {0,63}:[a-z0-9-\.] {0,63}:[^/]. {0,1023}`

Required: No

### SkillGroupName (p. 82)

The updated name for the skill group.

Type: String

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

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFD\u1000-\u10FFFF]*`

Required: No

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 108\)](#).

### **NameInUseException**

The name sent in the request is already in use. HTTP Status Code: 400

HTTP Status Code: 400

### **NotFoundException**

The resource is not found. HTTP Status Code: 400

HTTP Status Code: 400

## See Also

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

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

# Data Types

The Alexa For Business 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](#) (p. 85)
- [DeviceData](#) (p. 87)
- [Filter](#) (p. 89)
- [Profile](#) (p. 90)
- [ProfileData](#) (p. 92)
- [Room](#) (p. 94)
- [RoomData](#) (p. 96)
- [RoomSkillParameter](#) (p. 98)
- [SkillGroup](#) (p. 99)
- [SkillGroupData](#) (p. 100)
- [SkillSummary](#) (p. 101)
- [Sort](#) (p. 102)
- [Tag](#) (p. 103)
- [UserData](#) (p. 104)

## Device

A device with attributes.

### Contents

#### DeviceArn

The ARN of a device.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\. \{0,1023\}`

Required: No

#### DeviceName

The name of a device.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 100.

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u10000-\u10FFFF]*`

Required: No

#### DeviceSerialNumber

The serial number of a device.

Type: String

Pattern: `[a-zA-Z0-9]\{1,200\}`

Required: No

#### DeviceStatus

The status of a device.

Type: String

Valid Values: `READY | PENDING | WAS_OFFLINE`

Required: No

#### DeviceType

The type of a device.

Type: String

Pattern: `[a-zA-Z0-9]\{1,200\}`

Required: No

#### MacAddress

The MAC address of a device.

Type: String

Required: No

**RoomArn**

The room ARN of a device.

Type: String

Pattern: `arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[^/].{0,1023}`

Required: No

**SoftwareVersion**

The software version of a device.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

# DeviceData

Device attributes.

## Contents

### DeviceArn

The ARN of a device.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\{0,1023\}`

Required: No

### DeviceName

The name of a device.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 100.

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u10000-\u10FFFF]*`

Required: No

### DeviceSerialNumber

The serial number of a device.

Type: String

Pattern: `[a-zA-Z0-9]\{1,200\}`

Required: No

### DeviceStatus

The status of a device.

Type: String

Valid Values: `READY | PENDING | WAS_OFFLINE`

Required: No

### DeviceType

The type of a device.

Type: String

Pattern: `[a-zA-Z0-9]\{1,200\}`

Required: No

### MacAddress

The MAC address of a device.

Type: String

Required: No

**RoomArn**

The room ARN associated with a device.

Type: String

Pattern: `arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[^/].{0,1023}`

Required: No

**RoomName**

The name of the room associated with a device.

Type: String

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

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u10000-\u10FFFF]*`

Required: No

**SoftwareVersion**

The software version of a device.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

## Filter

A filter name and value pair that is used to return a more specific list of results. Filters can be used to match a set of resources by various criteria.

### Contents

#### Key

The key of a filter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: Yes

#### Values

The values of a filter.

Type: Array of strings

Array Members: Maximum number of 5 items.

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: Yes

### See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)



# Profile

A room profile with attributes.

## Contents

### Address

The address of a room profile.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

### DistanceUnit

The distance unit of a room profile.

Type: String

Valid Values: METRIC | IMPERIAL

Required: No

### MaxVolumeLimit

The max volume limit of a room profile.

Type: Integer

Required: No

### ProfileArn

The ARN of a room profile.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\. \{0,1023\}`

Required: No

### ProfileName

The name of a room profile.

Type: String

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

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u10000-\u10FFFF]*`

Required: No

### PSTNEnabled

The PSTN setting of a room profile.

Type: Boolean

Required: No

**SetupModeDisabled**

The setup mode of a room profile.

Type: Boolean

Required: No

**TemperatureUnit**

The temperature unit of a room profile.

Type: String

Valid Values: FAHRENHEIT | CELSIUS

Required: No

**Timezone**

The time zone of a room profile.

Type: String

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

Required: No

**WakeWord**

The wake word of a room profile.

Type: String

Valid Values: ALEXA | AMAZON | ECHO | COMPUTER

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

## ProfileData

The data of a room profile.

### Contents

#### Address

The address of a room profile.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

#### DistanceUnit

The distance unit of a room profile.

Type: String

Valid Values: METRIC | IMPERIAL

Required: No

#### ProfileArn

The ARN of a room profile.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\. \{0,1023\}`

Required: No

#### ProfileName

The name of a room profile.

Type: String

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

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u10000-\u10FFFF]*`

Required: No

#### TemperatureUnit

The temperature unit of a room profile.

Type: String

Valid Values: FAHRENHEIT | CELSIUS

Required: No

#### Timezone

The timezone of a room profile.

Type: String

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

Required: No

**WakeWord**

The wake word of a room profile.

Type: String

Valid Values: `ALEXA` | `AMAZON` | `ECHO` | `COMPUTER`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

## Room

A room with attributes.

### Contents

#### Description

The description of a room.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u10000-\u10FFFF]*`

Required: No

#### ProfileArn

The profile ARN of a room.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\{0,1023\}`

Required: No

#### ProviderCalendarId

The provider calendar ARN of a room.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Required: No

#### RoomArn

The ARN of a room.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\{0,1023\}`

Required: No

#### RoomName

The name of a room.

Type: String

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

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u10000-\u10FFFF]*`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

## RoomData

The data of a room.

### Contents

#### Description

The description of a room.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u10000-\u10FFFF]*`

Required: No

#### ProfileArn

The profile ARN of a room.

Type: String

Pattern: `arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[^/].{0,1023}`

Required: No

#### ProfileName

The profile name of a room.

Type: String

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

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u10000-\u10FFFF]*`

Required: No

#### ProviderCalendarId

The provider calendar ARN of a room.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Required: No

#### RoomArn

The ARN of a room.

Type: String

Pattern: `arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[^/].{0,1023}`

Required: No

### **RoomName**

The name of a room.

Type: String

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

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u10000-\u10FFFF]*`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)



# RoomSkillParameter

A skill parameter associated with a room.

## Contents

### ParameterKey

The parameter key of a room skill parameter. ParameterKey is an enumerated type that only takes "DEFAULT" or "SCOPE" as valid values.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

### ParameterValue

The parameter value of a room skill parameter.

Type: String

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

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

# SkillGroup

A skill group with attributes.

## Contents

### Description

The description of a skill group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Pattern: `[ \u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u10000-\u10FFFF]*`

Required: No

### SkillGroupArn

The ARN of a skill group.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\{0,1023\}`

Required: No

### SkillGroupName

The name of a skill group.

Type: String

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

Pattern: `[ \u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u10000-\u10FFFF]*`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

# SkillGroupData

The attributes of a skill group.

## Contents

### Description

The description of a skill group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Pattern: `[ \u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF \u10000-\u10FFFF ]*`

Required: No

### SkillGroupArn

The skill group ARN of a skill group.

Type: String

Pattern: `arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[^/].{0,1023}`

Required: No

### SkillGroupName

The skill group name of a skill group.

Type: String

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

Pattern: `[ \u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF \u10000-\u10FFFF ]*`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

# SkillSummary

The summary of skills.

## Contents

### SkillId

The ARN of the skill summary.

Type: String

Pattern: (^amzn1\.ask\.skill\[0-9a-f\-\]{1,200})|(^amzn1\.echo-sdk-ams\.app\[0-9a-f\-\]{1,200})

Required: No

### SkillName

The name of the skill.

Type: String

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

Pattern: [\u0009\u000A\u000D\u0020-\u007E\u0085\u00A0-\uD7FF\uE000-\uFFFF\u10000-\u10FFFF]\*

Required: No

### SupportsLinking

Linking support for a skill.

Type: Boolean

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

## Sort

An object representing a sort criteria.

### Contents

#### Key

The sort key of a sort object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: Yes

#### Value

The sort value of a sort object.

Type: String

Valid Values: `ASC` | `DESC`

Required: Yes

### See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

## Tag

A key-value pair that can be associated with a resource.

### Contents

#### Key

The key of a tag. Tag keys are case-sensitive.

Type: String

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

Pattern: `^[ \p{L}\p{Z}\p{N}_ . : / = + \ - @ ] * ) $`

Required: No

#### Value

The value of a tag. Tag values are case-sensitive and can be null.

Type: String

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

Pattern: `^[ \p{L}\p{Z}\p{N}_ . : / = + \ - @ ] * ) $`

Required: No

### See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

# UserData

Information related to a user.

## Contents

### Email

The email of a user.

Type: String

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

Pattern: (`[0-9a-zA-Z]([+-.\w]*[0-9a-zA-Z])*@([0-9a-zA-Z[-\w]*[0-9a-zA-Z]\.)+[a-zA-Z]{2,9})`)

Required: No

### EnrollmentId

The enrollment ARN of a user.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: No

### EnrollmentStatus

The enrollment status of a user.

Type: String

Valid Values: `INITIALIZED` | `PENDING` | `REGISTERED` | `DEREGISTERING`

Required: No

### FirstName

The first name of a user.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 30.

Pattern: (`[A-Za-z\-' 0-9. _]`|\p{IsLetter})\*

Required: No

### LastName

The last name of a user.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 30.

Pattern: (`[A-Za-z\-' 0-9. _]`|\p{IsLetter})\*

Required: No

### UserArn

The ARN of a user.

Type: String

Pattern: `arn:[a-z0-9-\.]\{1,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[a-z0-9-\.]\{0,63\}:[^/]\. \{0,1023\}`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)



# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signature Version 4 Signing Process](#) in the *Amazon Web Services General Reference*.

## Action

The action to be performed.

Type: string

Required: Yes

## Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

## X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

## X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4\_request"). The value is expressed in the following format: `access_key/YYYYMMDD/region/service/aws4_request`.

For more information, see [Task 2: Create a String to Sign for Signature Version 4](#) in the *Amazon Web Services General Reference*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

## X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'THHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is

not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

Type: string

Required: Conditional

#### **X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS Security Token Service, go to [AWS Services That Work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from the AWS Security Token Service, you must include the security token.

Type: string

Required: Conditional

#### **X-Amz-Signature**

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

#### **X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Task 1: Create a Canonical Request For Signature Version 4](#) in the *Amazon Web Services General Reference*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

# Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

## **IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

## **InternalFailure**

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

HTTP Status Code: 500

## **InvalidAction**

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

HTTP Status Code: 400

## **InvalidClientTokenId**

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

HTTP Status Code: 403

## **InvalidParameterCombination**

Parameters that must not be used together were used together.

HTTP Status Code: 400

## **InvalidParameterValue**

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

## **InvalidQueryParameter**

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

## **MalformedQueryString**

The query string contains a syntax error.

HTTP Status Code: 404

## **MissingAction**

The request is missing an action or a required parameter.

HTTP Status Code: 400

**MissingAuthenticationToken**

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

**MissingParameter**

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

**OptInRequired**

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

HTTP Status Code: 403

**RequestExpired**

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

**ServiceUnavailable**

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

**ValidationError**

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

HTTP Status Code: 400