

# Amazon IAM Identity Center



# Amazon IAM Identity Center: Portal API Reference

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# Welcome

Amazon IAM Identity Center Portal is a web service that you can use to assign your users access to IAM Identity Center resources such as the Amazon access portal. The Amazon access portal provides your users with single sign-on access to their assigned Amazon accounts and applications. For information about how to assign your users access to Amazon accounts and applications, see the [IAM Identity Center User Guide](#).

## Note

IAM Identity Center uses the `sso` and `identitystore` API namespaces.

This reference guide describes the Amazon access portal operations that you can call programmatically, and it includes detailed information about data types and errors.

## Note

Amazon provides SDKs that consist of libraries and sample code for various programming languages and platforms, such as Java, Ruby, .Net, iOS, or Android. The SDKs provide a convenient way to programmatically access IAM Identity Center and other Amazon services. For more information about the Amazon SDKs, including how to download and install them, see [Tools for Amazon Web Services](#).

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# Actions

The following actions are supported:

- [GetRoleCredentials](#)
- [ListAccountRoles](#)
- [ListAccounts](#)
- [Logout](#)

# GetRoleCredentials

Returns the STS short-term credentials for a given role name that is assigned to the user.

## Request Syntax

```
GET /federation/credentials?account_id=accountId&role_name=roleName HTTP/1.1
x-amz-ssr_bearer_token: accessToken
```

## URI Request Parameters

The request uses the following URI parameters.

### accessToken

The token issued by the `CreateToken` API call. For more information, see [CreateToken](#) in the *IAM Identity Center OIDC API Reference Guide*.

Required: Yes

### accountId

The identifier for the Amazon account that is assigned to the user.

Required: Yes

### roleName

The friendly name of the role that is assigned to the user.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
```

```
"roleCredentials": {  
  "accessKeyId": "string",  
  "expiration": number,  
  "secretAccessKey": "string",  
  "sessionToken": "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.

### roleCredentials

The credentials for the role that is assigned to the user.

Type: [RoleCredentials](#) object

## Errors

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

### **InvalidRequestException**

Indicates that a problem occurred with the input to the request. For example, a required parameter might be missing or out of range.

HTTP Status Code: 400

### **ResourceNotFoundException**

The specified resource doesn't exist.

HTTP Status Code: 404

### **TooManyRequestsException**

Indicates that the request is being made too frequently and is more than what the server can handle.

HTTP Status Code: 429



## UnauthorizedException

Indicates that the request is not authorized. This can happen due to an invalid access token in the request.

HTTP Status Code: 401

## See Also

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

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

# ListAccountRoles

Lists all roles that are assigned to the user for a given Amazon account.

## Request Syntax

```
GET /assignment/roles?account_id=accountId&max_result=maxResults&next_token=nextToken
HTTP/1.1
x-amz-ssr-bearer_token: accessToken
```

## URI Request Parameters

The request uses the following URI parameters.

### accessToken

The token issued by the `CreateToken` API call. For more information, see [CreateToken](#) in the *IAM Identity Center OIDC API Reference Guide*.

Required: Yes

### accountId

The identifier for the Amazon account that is assigned to the user.

Required: Yes

### maxResults

The number of items that clients can request per page.

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

### nextToken

The page token from the previous response output when you request subsequent pages.

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "nextToken": "string",
  "roleList": [
    {
      "accountId": "string",
      "roleName": "string"
    }
  ]
}
```

## Response Elements

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

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

### nextToken

The page token client that is used to retrieve the list of accounts.

Type: String

### roleList

A paginated response with the list of roles and the next token if more results are available.

Type: Array of [RoleInfo](#) objects

## Errors

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

### **InvalidRequestException**

Indicates that a problem occurred with the input to the request. For example, a required parameter might be missing or out of range.

HTTP Status Code: 400

### **ResourceNotFoundException**

The specified resource doesn't exist.

HTTP Status Code: 404

### **TooManyRequestsException**

Indicates that the request is being made too frequently and is more than what the server can handle.

HTTP Status Code: 429

### **UnauthorizedException**

Indicates that the request is not authorized. This can happen due to an invalid access token in the request.

HTTP Status Code: 401

## **See Also**

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

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

# ListAccounts

Lists all Amazon accounts assigned to the user. These Amazon accounts are assigned by the administrator of the account. For more information, see [Assign User Access](#) in the *IAM Identity Center User Guide*. This operation returns a paginated response.

## Request Syntax

```
GET /assignment/accounts?max_result=maxResults&next_token=nextToken HTTP/1.1
x-amz-ssr_bearer_token: accessToken
```

## URI Request Parameters

The request uses the following URI parameters.

### [accessToken](#)

The token issued by the `CreateToken` API call. For more information, see [CreateToken](#) in the *IAM Identity Center OIDC API Reference Guide*.

Required: Yes

### [maxResults](#)

This is the number of items clients can request per page.

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

### [nextToken](#)

(Optional) When requesting subsequent pages, this is the page token from the previous response output.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "accountList": [
    {
      "accountId": "string",
      "accountName": "string",
      "emailAddress": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

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

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

### accountList

A paginated response with the list of account information and the next token if more results are available.

Type: Array of [AccountInfo](#) objects

### nextToken

The page token client that is used to retrieve the list of accounts.

Type: String

## Errors

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

### **InvalidRequestException**

Indicates that a problem occurred with the input to the request. For example, a required parameter might be missing or out of range.

HTTP Status Code: 400

## ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 404

## TooManyRequestsException

Indicates that the request is being made too frequently and is more than what the server can handle.

HTTP Status Code: 429

## UnauthorizedException

Indicates that the request is not authorized. This can happen due to an invalid access token in the request.

HTTP Status Code: 401

## See Also

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

- [Amazon Command Line Interface](#)
- [Amazon SDK for .NET](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go v2](#)
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- [Amazon SDK for Ruby V3](#)

# Logout

Removes the locally stored SSO tokens from the client-side cache and sends an API call to the IAM Identity Center service to invalidate the corresponding server-side IAM Identity Center sign in session.

## Note

If a user uses IAM Identity Center to access the Amazon CLI, the user's IAM Identity Center sign in session is used to obtain an IAM session, as specified in the corresponding IAM Identity Center permission set. More specifically, IAM Identity Center assumes an IAM role in the target account on behalf of the user, and the corresponding temporary Amazon credentials are returned to the client.

After user logout, any existing IAM role sessions that were created by using IAM Identity Center permission sets continue based on the duration configured in the permission set. For more information, see [User authentications](#) in the *IAM Identity Center User Guide*.

## Request Syntax

```
POST /logout HTTP/1.1
x-amz-sso_bearer_token: accessToken
```

## URI Request Parameters

The request uses the following URI parameters.

### accessToken

The token issued by the CreateToken API call. For more information, see [CreateToken](#) in the *IAM Identity Center OIDC API Reference Guide*.

Required: Yes

## Request Body

The request does not have a request body.



## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

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

### InvalidRequestException

Indicates that a problem occurred with the input to the request. For example, a required parameter might be missing or out of range.

HTTP Status Code: 400

### TooManyRequestsException

Indicates that the request is being made too frequently and is more than what the server can handle.

HTTP Status Code: 429

### UnauthorizedException

Indicates that the request is not authorized. This can happen due to an invalid access token in the request.

HTTP Status Code: 401

## See Also


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

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

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

# Data Types

The Amazon IAM Identity Center 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:

- [AccountInfo](#)
- [RoleCredentials](#)
- [RoleInfo](#)

# AccountInfo

Provides information about your Amazon account.

## Contents

### **accountId**

The identifier of the Amazon account that is assigned to the user.

Type: String

Required: No

### **accountName**

The display name of the Amazon account that is assigned to the user.

Type: String

Required: No

### **emailAddress**

The email address of the Amazon account that is assigned to the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 254.

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# RoleCredentials

Provides information about the role credentials that are assigned to the user.

## Contents

### **accessKeyId**

The identifier used for the temporary security credentials. For more information, see [Using Temporary Security Credentials to Request Access to Amazon Resources](#) in the *Amazon IAM Identity Center User Guide*.

Type: String

Required: No

### **expiration**

The date on which temporary security credentials expire.

Type: Long

Required: No

### **secretAccessKey**

The key that is used to sign the request. For more information, see [Using Temporary Security Credentials to Request Access to Amazon Resources](#) in the *Amazon IAM Identity Center User Guide*.

Type: String

Required: No

### **sessionToken**

The token used for temporary credentials. For more information, see [Using Temporary Security Credentials to Request Access to Amazon Resources](#) in the *Amazon IAM Identity Center User Guide*.

Type: String

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# RoleInfo

Provides information about the role that is assigned to the user.

## Contents

### **accountId**

The identifier of the Amazon account assigned to the user.

Type: String

Required: No

### **roleName**

The friendly name of the role that is assigned to the user.

Type: String

Required: No

## See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for Ruby V3](#)

# Common Parameters

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

## Action

The action to be performed.

Type: string

Required: Yes

## Version

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

Type: string

Required: Yes

## X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

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



For more information, see [Create a signed Amazon API request](#) in the *IAM User Guide*.

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

Type: string

Required: Conditional

### **X-Amz-Date**

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an Amazon API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

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

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

Condition: If you're using temporary security credentials from Amazon STS, you must include the security token.

Type: string

Required: Conditional

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

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

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

Type: string

Required: Conditional

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

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed Amazon API request](#) in the *IAM User Guide*.

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

Type: string

Required: Conditional

# Common Errors

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

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## **ExpiredTokenException**

The security token included in the request is expired

HTTP Status Code: 403

## **IncompleteSignature**

The request signature does not conform to Amazon standards.

HTTP Status Code: 403

## **InternalFailure**

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

HTTP Status Code: 500

## **MalformedHttpRequestException**

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

HTTP Status Code: 400

## **NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 401

## **OptInRequired**

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

HTTP Status Code: 403

### **RequestAbortedException**

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

HTTP Status Code: 400

### **RequestEntityTooLargeException**

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

HTTP Status Code: 413

### **RequestExpired**

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

HTTP Status Code: 400

### **RequestTimeoutException**

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

HTTP Status Code: 408

### **ServiceUnavailable**

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

HTTP Status Code: 503

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

### **UnrecognizedClientException**

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

HTTP Status Code: 403

**UnknownOperationException**

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

HTTP Status Code: 404

**ValidationError**

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

HTTP Status Code: 400