
AWS Identity and Access Management

API Reference

API Version 2010-05-08



AWS Identity and Access Management: API Reference

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Welcome

AWS Identity and Access Management (IAM) is a web service that you can use to manage users and user permissions under your AWS account. This guide provides descriptions of IAM actions that you can call programmatically. For general information about IAM, see [AWS Identity and Access Management \(IAM\)](#). For the user guide for IAM, see [Using IAM](#).

Note

AWS provides SDKs that consist of libraries and sample code for various programming languages and platforms (Java, Ruby, .NET, iOS, Android, etc.). The SDKs provide a convenient way to create programmatic access to IAM and AWS. For example, the SDKs take care of tasks such as cryptographically signing requests (see below), managing errors, and retrying requests automatically. For information about the AWS SDKs, including how to download and install them, see the [Tools for Amazon Web Services](#) page.

We recommend that you use the AWS SDKs to make programmatic API calls to IAM. However, you can also use the IAM Query API to make direct calls to the IAM web service. To learn more about the IAM Query API, see [Making Query Requests](#) in the [Using IAM](#) guide. IAM supports GET and POST requests for all actions. That is, the API does not require you to use GET for some actions and POST for others. However, GET requests are subject to the limitation size of a URL. Therefore, for operations that require larger sizes, use a POST request.

Signing Requests

Requests must be signed using an access key ID and a secret access key. We strongly recommend that you do not use your AWS account access key ID and secret access key for everyday work with IAM. You can use the access key ID and secret access key for an IAM user or you can use the AWS Security Token Service to generate temporary security credentials and use those to sign requests.

To sign requests, we recommend that you use [Signature Version 4](#). If you have an existing application that uses Signature Version 2, you do not have to update it to use Signature Version 4. However, some operations now require Signature Version 4. The documentation for operations that require version 4 indicate this requirement.

Additional Resources

For more information, see the following:

- [AWS Security Credentials](#). This topic provides general information about the types of credentials used for accessing AWS.
- [IAM Best Practices](#). This topic presents a list of suggestions for using the IAM service to help secure your AWS resources.

- [AWS Security Token Service](#). This guide describes how to create and use temporary security credentials.
- [Signing AWS API Requests](#). This set of topics walk you through the process of signing a request using an access key ID and secret access key.

This document was last updated on September 3, 2015.

Actions

The following actions are supported:

- [AddClientIDToOpenIDConnectProvider \(p. 6\)](#)
- [AddRoleToInstanceProfile \(p. 8\)](#)
- [AddUserToGroup \(p. 10\)](#)
- [AttachGroupPolicy \(p. 12\)](#)
- [AttachRolePolicy \(p. 14\)](#)
- [AttachUserPolicy \(p. 16\)](#)
- [ChangePassword \(p. 18\)](#)
- [CreateAccessKey \(p. 20\)](#)
- [CreateAccountAlias \(p. 22\)](#)
- [CreateGroup \(p. 24\)](#)
- [CreateInstanceProfile \(p. 26\)](#)
- [CreateLoginProfile \(p. 28\)](#)
- [CreateOpenIDConnectProvider \(p. 30\)](#)
- [CreatePolicy \(p. 33\)](#)
- [CreatePolicyVersion \(p. 36\)](#)
- [CreateRole \(p. 39\)](#)
- [CreateSAMLProvider \(p. 42\)](#)
- [CreateUser \(p. 45\)](#)
- [CreateVirtualMFADevice \(p. 47\)](#)
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- [DeleteAccessKey \(p. 51\)](#)
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- [DeleteGroup \(p. 56\)](#)
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- [DeletePolicy \(p. 66\)](#)
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- [DeleteRole \(p. 70\)](#)
- [DeleteRolePolicy \(p. 72\)](#)
- [DeleteSAMLProvider \(p. 74\)](#)
- [DeleteServerCertificate \(p. 76\)](#)
- [DeleteSigningCertificate \(p. 78\)](#)
- [DeleteSSHPublicKey \(p. 80\)](#)
- [DeleteUser \(p. 82\)](#)
- [DeleteUserPolicy \(p. 84\)](#)
- [DeleteVirtualMFADevice \(p. 86\)](#)
- [DetachGroupPolicy \(p. 88\)](#)
- [DetachRolePolicy \(p. 90\)](#)
- [DetachUserPolicy \(p. 92\)](#)
- [EnableMFADevice \(p. 94\)](#)
- [GenerateCredentialReport \(p. 97\)](#)
- [GetAccessKeyLastUsed \(p. 99\)](#)
- [GetAccountAuthorizationDetails \(p. 101\)](#)
- [GetAccountPasswordPolicy \(p. 109\)](#)
- [GetAccountSummary \(p. 111\)](#)
- [GetCredentialReport \(p. 117\)](#)
- [GetGroup \(p. 119\)](#)
- [GetGroupPolicy \(p. 122\)](#)
- [GetInstanceProfile \(p. 124\)](#)
- [GetLoginProfile \(p. 126\)](#)
- [GetOpenIDConnectProvider \(p. 128\)](#)
- [GetPolicy \(p. 130\)](#)
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- [ListSSHPublicKeys \(p. 207\)](#)
- [ListUserPolicies \(p. 210\)](#)
- [ListUsers \(p. 213\)](#)
- [ListVirtualMFADevices \(p. 216\)](#)
- [PutGroupPolicy \(p. 219\)](#)
- [PutRolePolicy \(p. 221\)](#)
- [PutUserPolicy \(p. 224\)](#)
- [RemoveClientIDFromOpenIDConnectProvider \(p. 226\)](#)
- [RemoveRoleFromInstanceProfile \(p. 228\)](#)
- [RemoveUserFromGroup \(p. 230\)](#)
- [ResyncMFADevice \(p. 232\)](#)
- [SetDefaultPolicyVersion \(p. 234\)](#)
- [UpdateAccessKey \(p. 236\)](#)
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- [UpdateSSHPublicKey \(p. 255\)](#)
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- [UploadServerCertificate \(p. 260\)](#)
- [UploadSigningCertificate \(p. 264\)](#)
- [UploadSSHPublicKey \(p. 267\)](#)

AddClientIDToOpenIDConnectProvider

Adds a new client ID (also known as audience) to the list of client IDs already registered for the specified IAM OpenID Connect provider.

This action is idempotent; it does not fail or return an error if you add an existing client ID to the provider.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

ClientID

The client ID (also known as audience) to add to the IAM OpenID Connect provider.

Type: String

Length constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

OpenIDConnectProviderArn

The Amazon Resource Name (ARN) of the IAM OpenID Connect (OIDC) provider to add the client ID to. You can get a list of OIDC provider ARNs by using the [ListOpenIDConnectProviders \(p. 184\)](#) action.

Type: String

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

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=AddClientIDToOpenIDConnectProvider
&ClientID=my-application-ID
&OpenIDConnectProviderArn=arn:aws:iam::123456789012:oidc-provider/server.example.com
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<AddClientIDToOpenIDConnectProviderResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>e4bdcd4-4f66-11e4-aefa-bfd6aEXAMPLE</RequestId>
  </ResponseMetadata>
</AddClientIDToOpenIDConnectProviderResponse>
```

AddRoleToInstanceProfile

Adds the specified role to the specified instance profile. For more information about roles, go to [Working with Roles](#). For more information about instance profiles, go to [About Instance Profiles](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

InstanceProfileName

The name of the instance profile to update.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

RoleName

The name of the role to add.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+= , .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityAlreadyExists

The request was rejected because it attempted to create a resource that already exists.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=AddRoleToInstanceProfile
&InstanceProfileName=Webserver
&RoleName=S3Access
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<AddRoleToInstanceProfileResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>12657608-99f2-11e1-a4c3-27EXAMPLE804</RequestId>
  </ResponseMetadata>
</AddRoleToInstanceProfileResponse>
```

AddUserToGroup

Adds the specified user to the specified group.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

GroupName

The name of the group to update.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

UserName

The name of the user to add.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=AddUserToGroup
&GroupName=Managers
&UserName=Bob
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<AddUserToGroupResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</AddUserToGroupResponse>
```

AttachGroupPolicy

Attaches the specified managed policy to the specified group.

You use this API to attach a managed policy to a group. To embed an inline policy in a group, use [PutGroupPolicy \(p. 219\)](#).

For more information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

GroupName

The name (friendly name, not ARN) of the group to attach the policy to.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

PolicyArn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the *AWS General Reference*.

Type: String

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

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=AttachGroupPolicy
&GroupName=Finance
&PolicyArn=arn:aws:iam::aws:policy/ReadOnlyAccess
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<AttachGroupPolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>f8a7b7b9-3d01-11e4-bfad-8d1c6EXAMPLE</RequestId>
  </ResponseMetadata>
</AttachGroupPolicyResponse>
```

AttachRolePolicy

Attaches the specified managed policy to the specified role.

When you attach a managed policy to a role, the managed policy is used as the role's access (permissions) policy. You cannot use a managed policy as the role's trust policy. The role's trust policy is created at the same time as the role, using [CreateRole \(p. 39\)](#). You can update a role's trust policy using [UpdateAssumeRolePolicy \(p. 241\)](#).

Use this API to attach a managed policy to a role. To embed an inline policy in a role, use [PutRolePolicy \(p. 221\)](#). For more information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

PolicyArn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the *AWS General Reference*.

Type: String

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

Required: Yes

RoleName

The name (friendly name, not ARN) of the role to attach the policy to.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=AttachRolePolicy
&PolicyArn=arn:aws:iam::aws:policy/ReadOnlyAccess
&RoleName=ReadOnlyRole
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<AttachRolePolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>37a87673-3d07-11e4-bfad-8d1c6EXAMPLE</RequestId>
  </ResponseMetadata>
</AttachRolePolicyResponse>
```

AttachUserPolicy

Attaches the specified managed policy to the specified user.

You use this API to attach a managed policy to a user. To embed an inline policy in a user, use [PutUserPolicy \(p. 224\)](#).

For more information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

PolicyArn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the *AWS General Reference*.

Type: String

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

Required: Yes

UserName

The name (friendly name, not ARN) of the user to attach the policy to.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=AttachUserPolicy
&PolicyArn=arn:aws:iam::aws:policy/AdministratorAccess
&UserName=Alice
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<AttachUserPolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>ed7e72d3-3d07-11e4-bfad-8d1c6EXAMPLE</RequestId>
  </ResponseMetadata>
</AttachUserPolicyResponse>
```

ChangePassword

Changes the password of the IAM user who is calling this action. The root account password is not affected by this action.

To change the password for a different user, see [UpdateLoginProfile \(p. 245\)](#). For more information about modifying passwords, see [Managing Passwords](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

NewPassword

The new password. The new password must conform to the AWS account's password policy, if one exists.

Type: String

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

Pattern: [\u0009\u000A\u000D\u0020-\u00FF] +

Required: Yes

OldPassword

The IAM user's current password.

Type: String

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

Pattern: [\u0009\u000A\u000D\u0020-\u00FF] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityTemporarilyUnmodifiable

The request was rejected because it referenced an entity that is temporarily unmodifiable, such as a user name that was deleted and then recreated. The error indicates that the request is likely to succeed if you try again after waiting several minutes. The error message describes the entity.

HTTP Status Code: 409

InvalidUserType

The request was rejected because the type of user for the transaction was incorrect.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

PasswordPolicyViolation

The request was rejected because the provided password did not meet the requirements imposed by the account password policy.

HTTP Status Code: 400

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ChangePassword
&OldPassword=U79}kgds4?
&NewPassword=Lb0*1(9xpN
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ChangePasswordResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</ChangePasswordResponse>
```

CreateAccessKey

Creates a new AWS secret access key and corresponding AWS access key ID for the specified user. The default status for new keys is Active.

If you do not specify a user name, IAM determines the user name implicitly based on the AWS access key ID signing the request. Because this action works for access keys under the AWS account, you can use this action to manage root credentials even if the AWS account has no associated users.

For information about limits on the number of keys you can create, see [Limitations on IAM Entities](#) in the [Using IAM](#) guide.

Important

To ensure the security of your AWS account, the secret access key is accessible only during key and user creation. You must save the key (for example, in a text file) if you want to be able to access it again. If a secret key is lost, you can delete the access keys for the associated user and then create new keys.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

UserName

The user name that the new key will belong to.

Type: String

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

Pattern: [\w+=, .@-] +

Required: No

Response Elements

The following element is returned.

AccessKey

Information about the access key.

Type: [AccessKey \(p. 271\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action/CreateAccessKey
&UserName=Bob
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<CreateAccessKeyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<CreateAccessKeyResult>
<AccessKey>
<UserName>Bob</UserName>
<AccessKeyId>AKIAIOSFODNN7EXAMPLE</AccessKeyId>
<Status>Active</Status>
<SecretAccessKey>wJalrXUtnFEMI/K7MDENG/bPxRfiCYzEXAMPLEKEY
</SecretAccessKey>
</AccessKey>
</CreateAccessKeyResult>
<ResponseMetadata>
<RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</CreateAccessKeyResponse>
```

CreateAccountAlias

Creates an alias for your AWS account. For information about using an AWS account alias, see [Using an Alias for Your AWS Account ID](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

AccountAlias

The account alias to create.

Type: String

Length constraints: Minimum length of 3. Maximum length of 63.

Pattern: ^[a-zA-Z0-9](([a-zA-Z0-9]|-(?!-))*[a-zA-Z0-9])? \$

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityAlreadyExists

The request was rejected because it attempted to create a resource that already exists.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=CreateAccountAlias
&AccountAlias=example-corporation
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<CreateAccountAliasResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">  
  <ResponseMetadata>  
    <RequestId>36b5db08-f1b0-11df-8fbe-45274EXAMPLE</RequestId>  
  </ResponseMetadata>  
</CreateAccountAliasResponse>
```

CreateGroup

Creates a new group.

For information about the number of groups you can create, see [Limitations on IAM Entities](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

GroupName

The name of the group to create. Do not include the path in this value.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

Path

The path to the group. For more information about paths, see [IAM Identifiers](#) in the *Using IAM* guide.

This parameter is optional. If it is not included, it defaults to a slash (/).

Type: String

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

Pattern: (\u002F) | (\u002F[\u0021-\u007F]+\u002F)

Required: No

Response Elements

The following element is returned.

Group

Information about the group.

Type: [Group \(p. 274\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityAlreadyExists

The request was rejected because it attempted to create a resource that already exists.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=CreateGroup
&GroupName=Admins
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<CreateGroupResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<CreateGroupResult>
<Group>
<Path>/</Path>
<GroupName>Admins</GroupName>
<GroupId>AGPACKCEVSQ6C2EXAMPLE</GroupId>
<Arn>arn:aws:iam::123456789012:group/Admins</Arn>
</Group>
</CreateGroupResult>
<ResponseMetadata>
<RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</CreateGroupResponse>
```

CreateInstanceProfile

Creates a new instance profile. For information about instance profiles, go to [About Instance Profiles](#).

For information about the number of instance profiles you can create, see [Limitations on IAM Entities](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

InstanceProfileName

The name of the instance profile to create.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

Path

The path to the instance profile. For more information about paths, see [IAM Identifiers](#) in the *Using IAM* guide.

This parameter is optional. If it is not included, it defaults to a slash (/).

Type: String

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

Pattern: (\u002F) | (\u002F[\u0021-\u007F]+\u002F)

Required: No

Response Elements

The following element is returned.

InstanceProfile

Information about the instance profile.

Type: [InstanceProfile \(p. 277\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityAlreadyExists

The request was rejected because it attempted to create a resource that already exists.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=CreateInstanceProfile
&InstanceProfileName=Webserver
&Path=/application_abc/component_xyz/
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<CreateInstanceProfileResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <CreateInstanceProfileResult>
    <InstanceProfile>
      <InstanceProfileId>AIPAD5ARO2C5EXAMPLE3G</InstanceProfileId>
      <Roles/>
      <InstanceProfileName>Webserver</InstanceProfileName>
      <Path>/application_abc/component_xyz/</Path>
      <Arn>arn:aws:iam::123456789012:instance-profile/application_abc/component_xyz/Webserver</Arn>
      <CreateDate>2012-05-09T16:11:10.222Z</CreateDate>
    </InstanceProfile>
  </CreateInstanceProfileResult>
  <ResponseMetadata>
    <RequestId>974142ee-99f1-11e1-a4c3-27EXAMPLE804</RequestId>
  </ResponseMetadata>
</CreateInstanceProfileResponse>
```

CreateLoginProfile

Creates a password for the specified user, giving the user the ability to access AWS services through the AWS Management Console. For more information about managing passwords, see [Managing Passwords](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Password

The new password for the user.

Type: String

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

Pattern: [\u0009\u000A\u000D\u0020-\u00FF]+

Required: Yes

PasswordResetRequired

Specifies whether the user is required to set a new password on next sign-in.

Type: Boolean

Required: No

UserName

The name of the user to create a password for.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-]+

Required: Yes

Response Elements

The following element is returned.

LoginProfile

The user name and password create date.

Type: [LoginProfile \(p. 278\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityAlreadyExists

The request was rejected because it attempted to create a resource that already exists.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

PasswordPolicyViolation

The request was rejected because the provided password did not meet the requirements imposed by the account password policy.

HTTP Status Code: 400

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action/CreateLoginProfile
&UserName=Bob
&Password=h]6EszR}vJ*m
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<CreateLoginProfileResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <CreateLoginProfileResult>
    <LoginProfile>
      <PasswordResetRequired>false</PasswordResetRequired>
      <UserName>Bob</UserName>
      <CreateDate>2015-03-25T20:48:52.558Z</CreateDate>
    </LoginProfile>
  </CreateLoginProfileResult>
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</CreateLoginProfileResponse>
```

CreateOpenIDConnectProvider

Creates an IAM entity to describe an identity provider (IdP) that supports [OpenID Connect \(OIDC\)](#).

The OIDC provider that you create with this operation can be used as a principal in a role's trust policy to establish a trust relationship between AWS and the OIDC provider.

When you create the IAM OIDC provider, you specify the URL of the OIDC identity provider (IdP) to trust, a list of client IDs (also known as audiences) that identify the application or applications that are allowed to authenticate using the OIDC provider, and a list of thumbprints of the server certificate(s) that the IdP uses. You get all of this information from the OIDC IdP that you want to use for access to AWS.

Note

Because trust for the OIDC provider is ultimately derived from the IAM provider that this action creates, it is a best practice to limit access to the [CreateOpenIDConnectProvider \(p. 30\)](#) action to highly-privileged users.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

ClientIDList.member.N

A list of client IDs (also known as audiences). When a mobile or web app registers with an OpenID Connect provider, they establish a value that identifies the application. (This is the value that's sent as the `client_id` parameter on OAuth requests.)

You can register multiple client IDs with the same provider. For example, you might have multiple applications that use the same OIDC provider. You cannot register more than 100 client IDs with a single IAM OIDC provider.

There is no defined format for a client ID. The `CreateOpenIDConnectProviderRequest` action accepts client IDs up to 255 characters long.

Type: String list

Length constraints: Minimum length of 1. Maximum length of 255.

Required: No

ThumbprintList.member.N

A list of server certificate thumbprints for the OpenID Connect (OIDC) identity provider's server certificate(s). Typically this list includes only one entry. However, IAM lets you have up to five thumbprints for an OIDC provider. This lets you maintain multiple thumbprints if the identity provider is rotating certificates.

The server certificate thumbprint is the hex-encoded SHA-1 hash value of the X.509 certificate used by the domain where the OpenID Connect provider makes its keys available. It is always a 40-character string.

You must provide at least one thumbprint when creating an IAM OIDC provider. For example, if the OIDC provider is `server.example.com` and the provider stores its keys at "`https://keys.server.example.com/openid-connect`", the thumbprint string would be the hex-encoded SHA-1 hash value of the certificate used by `https://keys.server.example.com`.

For more information about obtaining the OIDC provider's thumbprint, see [Obtaining the Thumbprint for an OpenID Connect Provider](#) in the *Using IAM* guide.

Type: String list

Length constraints: Minimum length of 40. Maximum length of 40.

Required: Yes

Url

The URL of the identity provider. The URL must begin with "https://" and should correspond to the `iss` claim in the provider's OpenID Connect ID tokens. Per the OIDC standard, path components are allowed but query parameters are not. Typically the URL consists of only a host name, like "https://server.example.org" or "https://example.com".

You cannot register the same provider multiple times in a single AWS account. If you try to submit a URL that has already been used for an OpenID Connect provider in the AWS account, you will get an error.

Type: String

Length constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Response Elements

The following element is returned.

OpenIDConnectProviderArn

The Amazon Resource Name (ARN) of the IAM OpenID Connect provider that was created. For more information, see [OpenIDConnectProviderListEntry \(p. 281\)](#).

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityAlreadyExists

The request was rejected because it attempted to create a resource that already exists.

HTTP Status Code: 409

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=CreateOpenIDConnectProvider
&ThumbprintList.list.1=c3768084dfb3d2b68b7897bf5f565da8eEXAMPLE
&ClientIDList.list.1=my-application-ID
&Url=https://server.example.com
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<CreateOpenIDConnectProviderResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <CreateOpenIDConnectProviderResult>
    <OpenIDConnectProviderArn>
      arn:aws:iam::123456789012:oidc-provider/server.example.com
    </OpenIDConnectProviderArn>
  </CreateOpenIDConnectProviderResult>
  <ResponseMetadata>
    <RequestId>f248366a-4f64-11e4-aefa-bfd6aEXAMPLE</RequestId>
  </ResponseMetadata>
</CreateOpenIDConnectProviderResponse>
```

CreatePolicy

Creates a new managed policy for your AWS account.

This operation creates a policy version with a version identifier of v1 and sets v1 as the policy's default version. For more information about policy versions, see [Versioning for Managed Policies](#) in the *Using IAM* guide.

For more information about managed policies in general, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Description

A friendly description of the policy.

Typically used to store information about the permissions defined in the policy. For example, "Grants access to production DynamoDB tables."

The policy description is immutable. After a value is assigned, it cannot be changed.

Type: String

Length constraints: Minimum length of 0. Maximum length of 1000.

Required: No

Path

The path for the policy.

For more information about paths, see [IAM Identifiers](#) in the *Using IAM* guide.

This parameter is optional. If it is not included, it defaults to a slash (/).

Type: String

Pattern: ((/[A-Za-z0-9\.,\+@\=_-]+)+)/

Required: No

PolicyDocument

The policy document.

Type: String

Length constraints: Minimum length of 1. Maximum length of 5120.

Pattern: [\u0009\u000A\u000D\u0020-\u00FF]+

Required: Yes

PolicyName

The name of the policy document.

Type: String

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

Pattern: [\w+=,.@-]+

Required: Yes

Response Elements

The following element is returned.

Policy

Information about the policy.

Type: [Policy \(p. 283\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityAlreadyExists

The request was rejected because it attempted to create a resource that already exists.

HTTP Status Code: 409

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

MalformedPolicyDocument

The request was rejected because the policy document was malformed. The error message describes the specific error.

HTTP Status Code: 400

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action/CreatePolicy
&PolicyDocument={"Version":"2012-10-17","Statement": [{"Effect":"Allow","Action":"s3>ListAllMyBuckets",
"Resource":"arn:aws:s3::::*"}, {"Effect":"Allow","Action":["s3:Get*","s3>List*"],"Resource":
["arn:aws:s3::::EXAMPLE-BUCKET","arn:aws:s3::::EXAMPLE-BUCKET/*"]}], "PolicyName":S3-read-only-example-bucket
&Version=2010-05-08
```

```
&AUTHPARAMS
```

Sample Response

```
<CreatePolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<CreatePolicyResult>
<Policy>
<PolicyName>S3-read-only-example-bucket</PolicyName>
<DefaultVersionId>v1</DefaultVersionId>
<PolicyId>AGPACKCEVSQ6C2EXAMPLE</PolicyId>
<Path>/</Path>
<Arn>arn:aws:iam::123456789012:policy/S3-read-only-example-bucket</Arn>
<AttachmentCount>0</AttachmentCount>
<CreateDate>2014-09-15T17:36:14.673Z</CreateDate>
<UpdateDate>2014-09-15T17:36:14.673Z</UpdateDate>
</Policy>
</CreatePolicyResult>
<ResponseMetadata>
<RequestId>ca64c9e1-3cfe-11e4-bfad-8d1c6EXAMPLE</RequestId>
</ResponseMetadata>
</CreatePolicyResponse>
```

CreatePolicyVersion

Creates a new version of the specified managed policy. To update a managed policy, you create a new policy version. A managed policy can have up to five versions. If the policy has five versions, you must delete an existing version using [DeletePolicyVersion \(p. 68\)](#) before you create a new version.

Optionally, you can set the new version as the policy's default version. The default version is the operative version; that is, the version that is in effect for the IAM users, groups, and roles that the policy is attached to.

For more information about managed policy versions, see [Versioning for Managed Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

PolicyArn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the *AWS General Reference*.

Type: String

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

Required: Yes

PolicyDocument

The policy document.

Type: String

Length constraints: Minimum length of 1. Maximum length of 5120.

Pattern: [\u0009\u000A\u000D\u0020-\u00FF] +

Required: Yes

SetAsDefault

Specifies whether to set this version as the policy's default version.

When this parameter is `true`, the new policy version becomes the operative version; that is, the version that is in effect for the IAM users, groups, and roles that the policy is attached to.

For more information about managed policy versions, see [Versioning for Managed Policies](#) in the *Using IAM* guide.

Type: Boolean

Required: No

Response Elements

The following element is returned.

PolicyVersion

Information about the policy version.

Type: [PolicyVersion \(p. 287\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

MalformedPolicyDocument

The request was rejected because the policy document was malformed. The error message describes the specific error.

HTTP Status Code: 400

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action/CreatePolicyVersion
&PolicyArn=arn:aws:iam::123456789012:policy/S3-read-only-example-bucket
&PolicyDocument={"Version":"2012-10-17","Statement":[{"Effect":"Allow","Action":"s3>ListAllMyBuckets",
"Resource":"arn:aws:s3::::*"}, {"Effect":"Allow","Action":["s3:Get*","s3>List*"],"Resource":
["arn:aws:s3::::EXAMPLE-BUCKET","arn:aws:s3::::EXAMPLE-BUCKET/*"]}, {"Effect":"Deny","Action":"s3:*",
"Resource":["arn:aws:s3::::EXAMPLE-BUCKET","arn:aws:s3::::EXAMPLE-BUCKET/*"], "Condition": {"StringLike":
{"s3:prefix":["SENSITIVE-FILES*"]}}}], "Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<CreatePolicyVersionResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">

<CreatePolicyVersionResult>
  <PolicyVersion>
    <IsDefaultVersion>false</IsDefaultVersion>
    <VersionId>v2</VersionId>
    <CreateDate>2014-09-15T19:58:59.430Z</CreateDate>
  </PolicyVersion>
</CreatePolicyVersionResult>
<ResponseMetadata>
  <RequestId>bb551b92-3d12-11e4-bfad-8d1c6EXAMPLE</RequestId>
</ResponseMetadata>
</CreatePolicyVersionResponse>
```

CreateRole

Creates a new role for your AWS account. For more information about roles, go to [Working with Roles](#). For information about limitations on role names and the number of roles you can create, go to [Limitations on IAM Entities](#) in the *Using IAM* guide.

The policy in the following example grants permission to an EC2 instance to assume the role.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

AssumeRolePolicyDocument

The policy that grants an entity permission to assume the role.

Type: String

Length constraints: Minimum length of 1. Maximum length of 2048.

Pattern: [\u0009\u000A\u000D\u0020-\u00FF]+

Required: Yes

Path

The path to the role. For more information about paths, see [IAM Identifiers](#) in the *Using IAM* guide.

This parameter is optional. If it is not included, it defaults to a slash (/).

Type: String

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

Pattern: (\u002F) | (\u002F[\u0021-\u007F]+\u002F)

Required: No

RoleName

The name of the role to create.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=,.@-]+

Required: Yes

Response Elements

The following element is returned.

Role

Information about the role.

Type: [Role \(p. 288\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityAlreadyExists

The request was rejected because it attempted to create a resource that already exists.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

MalformedPolicyDocument

The request was rejected because the policy document was malformed. The error message describes the specific error.

HTTP Status Code: 400

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=CreateRole
&RoleName=S3Access
&Path=/application_abc/component_xyz/
&AssumeRolePolicyDocument={"Version":"2012-10-17","Statement":[{"Effect":"Allow","Principal":{"Service":["ec2.amazonaws.com"]},"Action":["sts:AssumeRole"]}]}
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<CreateRoleResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<CreateRoleResult>
<Role>
<Path>/application_abc/component_xyz/</Path>
<Arn>arn:aws:iam::123456789012:role/application_abc/component_xyz/S3Access</Arn>
<RoleName>S3Access</RoleName>
<AssumeRolePolicyDocument>
{"Version":"2012-10-17","Statement":[{"Effect":"Allow",
"Principal":{"Service":["ec2.amazonaws.com"]},"Action":["sts:AssumeR
```

```
ole"]}]>
</AssumeRolePolicyDocument>
<CreateDate>2012-05-08T23:34:01.495Z</CreateDate>
<RoleId>AROADBQP57FF2AEXAMPLE</RoleId>
</Role>
</CreateRoleResult>
<ResponseMetadata>
  <RequestId>4a93ceee-9966-11e1-b624-blaEXAMPLE7c</RequestId>
</ResponseMetadata>
</CreateRoleResponse>
```

CreateSAMLProvider

Creates an IAM entity to describe an identity provider (IdP) that supports SAML 2.0.

The SAML provider that you create with this operation can be used as a principal in a role's trust policy to establish a trust relationship between AWS and a SAML identity provider. You can create an IAM role that supports Web-based single sign-on (SSO) to the AWS Management Console or one that supports API access to AWS.

When you create the SAML provider, you upload an a SAML metadata document that you get from your IdP and that includes the issuer's name, expiration information, and keys that can be used to validate the SAML authentication response (assertions) that are received from the IdP. You must generate the metadata document using the identity management software that is used as your organization's IdP.

Note

This operation requires [Signature Version 4](#).

For more information, see [Giving Console Access Using SAML](#) and [Creating Temporary Security Credentials for SAML Federation](#) in the *Using Temporary Credentials* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Name

The name of the provider to create.

Type: String

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

Pattern: [\w . _ -] +

Required: Yes

SAMLMetadataDocument

An XML document generated by an identity provider (IdP) that supports SAML 2.0. The document includes the issuer's name, expiration information, and keys that can be used to validate the SAML authentication response (assertions) that are received from the IdP. You must generate the metadata document using the identity management software that is used as your organization's IdP.

For more information, see [Creating Temporary Security Credentials for SAML Federation](#) in the *Using Temporary Security Credentials* guide.

Type: String

Length constraints: Minimum length of 1000. Maximum length of 10000000.

Required: Yes

Response Elements

The following element is returned.

SAMLProviderArn

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

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityAlreadyExists

The request was rejected because it attempted to create a resource that already exists.

HTTP Status Code: 409

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=CreateSAMLProvider
&Name=MyUniversity
&SAMLProviderDocument=VGhpccyBpcyB3aGVyZSB5b3UgcHV0IHRoZSBTQU1MIHByb3ZpZGVyIG1ldG
FkYXRhIGRvY3VtZW50
LCBCYXNlNjQtZW5jb2RlZCBpbnRvIGEgYmlnIHN0cmluZy4=
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<CreateSAMLProviderResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">

  <CreateSAMLProviderResult>
    <SAMLProviderArn>arn:aws:iam::123456789012:saml-metadata/MyUniversity</SAM
LProviderArn>
  </CreateSAMLProviderResult>
  <ResponseMetadata>
    <RequestId>29f47818-99f5-11e1-a4c3-27EXAMPLE804</RequestId>
  </ResponseMetadata>
</CreateSAMLProviderResponse>
```


CreateUser

Creates a new user for your AWS account.

For information about limitations on the number of users you can create, see [Limitations on IAM Entities](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Path

The path for the user name. For more information about paths, see [IAM Identifiers](#) in the *Using IAM* guide.

This parameter is optional. If it is not included, it defaults to a slash (/).

Type: String

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

Pattern: (\u002F) | (\u002F[\u0021-\u007F]+\u002F)

Required: No

UserName

The name of the user to create.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-]+

Required: Yes

Response Elements

The following element is returned.

User

Information about the user.

Type: [User \(p. 296\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityAlreadyExists

The request was rejected because it attempted to create a resource that already exists.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action/CreateUser
&Path=/division_abc/subdivision_xyz/
&UserName=Bob
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<CreateUserResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<CreateUserResult>
<User>
<Path>/division_abc/subdivision_xyz/</Path>
<UserName>Bob</UserName>
<UserId>AIDACKCEVSQ6C2EXAMPLE</UserId>
<Arn>arn:aws:iam::123456789012:user/division_abc/subdivision_xyz/Bob</Arn>
</User>
</CreateUserResult>
<ResponseMetadata>
<RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</CreateUserResponse>
```

CreateVirtualMFADevice

Creates a new virtual MFA device for the AWS account. After creating the virtual MFA, use [EnableMFADevice \(p. 94\)](#) to attach the MFA device to an IAM user. For more information about creating and working with virtual MFA devices, go to [Using a Virtual MFA Device](#) in the *Using IAM* guide.

For information about limits on the number of MFA devices you can create, see [Limitations on Entities](#) in the *Using IAM* guide.

Important

The seed information contained in the QR code and the Base32 string should be treated like any other secret access information, such as your AWS access keys or your passwords. After you provision your virtual device, you should ensure that the information is destroyed following secure procedures.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Path

The path for the virtual MFA device. For more information about paths, see [IAM Identifiers](#) in the *Using IAM* guide.

This parameter is optional. If it is not included, it defaults to a slash (/).

Type: String

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

Pattern: (\u002F) | (\u002F[\u0021-\u007F]+\u002F)

Required: No

VirtualMFADeviceName

The name of the virtual MFA device. Use with path to uniquely identify a virtual MFA device.

Type: String

Length constraints: Minimum length of 1.

Pattern: [\w+=,.@-]+

Required: Yes

Response Elements

The following element is returned.

VirtualMFADevice

A newly created virtual MFA device.

Type: [VirtualMFADevice \(p. 299\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityAlreadyExists

The request was rejected because it attempted to create a resource that already exists.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action/CreateVirtualMFADevice
&VirtualMFADeviceName=ExampleName
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<CreateVirtualMFADeviceResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <CreateVirtualMFADeviceResult>
    <VirtualMFADevice>
      <SerialNumber>arn:aws:iam::123456789012:mfa/ExampleName</SerialNumber>
      <Base32StringSeed>
        2K5K5XTLA7GGE75TQLYEXAMPLEEXAMPLECHDFW4KJYZ6UFQ75LL7COCYKM
      </Base32StringSeed>
      <QRCodePNG>
        89504E470D0A1A0AASDFAHSDFKJKLJFKALSDFJASDF <!-- byte array of png file
-->
      </QRCodePNG>
    </VirtualMFADevice>
  </CreateVirtualMFADeviceResult>
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</CreateVirtualMFADeviceResponse>
```

DeactivateMFADevice

Deactivates the specified MFA device and removes it from association with the user name for which it was originally enabled.

For more information about creating and working with virtual MFA devices, go to [Using a Virtual MFA Device](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

SerialNumber

The serial number that uniquely identifies the MFA device. For virtual MFA devices, the serial number is the device ARN.

Type: String

Length constraints: Minimum length of 9. Maximum length of 256.

Pattern: [\w+=/ : .@-] +

Required: Yes

UserName

The name of the user whose MFA device you want to deactivate.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityTemporarilyUnmodifiable

The request was rejected because it referenced an entity that is temporarily unmodifiable, such as a user name that was deleted and then recreated. The error indicates that the request is likely to succeed if you try again after waiting several minutes. The error message describes the entity.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeactivateMFADevice
&UserName=Bob
&SerialNumber=R1234
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<DeactivateMFADeviceResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</DeactivateMFADeviceResponse>
```

DeleteAccessKey

Deletes the access key associated with the specified user.

If you do not specify a user name, IAM determines the user name implicitly based on the AWS access key ID signing the request. Because this action works for access keys under the AWS account, you can use this action to manage root credentials even if the AWS account has no associated users.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

AccessKeyId

The access key ID for the access key ID and secret access key you want to delete.

Type: String

Length constraints: Minimum length of 16. Maximum length of 32.

Pattern: [\w] +

Required: Yes

UserName

The name of the user whose key you want to delete.

Type: String

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

Pattern: [\w+=, .@-] +

Required: No

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeleteAccessKey
&UserName=Bob
&AccessKeyId=AKIAIOSFODNN7EXAMPLE
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<DeleteAccessKeyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</DeleteAccessKeyResponse>
```

DeleteAccountAlias

Deletes the specified AWS account alias. For information about using an AWS account alias, see [Using an Alias for Your AWS Account ID](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

AccountAlias

The name of the account alias to delete.

Type: String

Length constraints: Minimum length of 3. Maximum length of 63.

Pattern: ^[a-zA-Z0-9](([a-zA-Z0-9]|-(?!-))*[a-zA-Z0-9])?\$/

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeleteAccountAlias
&AccountAlias=ExampleCorp
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<DeleteAccountAliasResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">  
  <ResponseMetadata>  
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>  
  </ResponseMetadata>  
</DeleteAccountAliasResponse>
```

DeleteAccountPasswordPolicy

Deletes the password policy for the AWS account.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeleteAccountPasswordPolicy
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<DeleteAccountPasswordPolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</DeleteAccountPasswordPolicyResponse>
```

DeleteGroup

Deletes the specified group. The group must not contain any users or have any attached policies.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

GroupName

The name of the group to delete.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

DeleteConflict

The request was rejected because it attempted to delete a resource that has attached subordinate entities. The error message describes these entities.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeleteGroup
&GroupName=Test
&Version=2010-05-08
```

```
&AUTHPARAMS
```

Sample Response

```
<DeleteGroupResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</DeleteGroupResponse>
```

DeleteGroupPolicy

Deletes the specified inline policy that is embedded in the specified group.

A group can also have managed policies attached to it. To detach a managed policy from a group, use [DetachGroupPolicy \(p. 88\)](#). For more information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

GroupName

The name (friendly name, not ARN) identifying the group that the policy is embedded in.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

PolicyName

The name identifying the policy document to delete.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeleteGroupPolicy
&GroupName=Admins
&PolicyName=AdminFullAccess
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<DeleteGroupPolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</DeleteGroupPolicyResponse>
```

DeleteInstanceProfile

Deletes the specified instance profile. The instance profile must not have an associated role.

Important

Make sure you do not have any Amazon EC2 instances running with the instance profile you are about to delete. Deleting a role or instance profile that is associated with a running instance will break any applications running on the instance.

For more information about instance profiles, go to [About Instance Profiles](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

InstanceProfileName

The name of the instance profile to delete.

Type: String

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

Pattern: [\w+=, .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

DeleteConflict

The request was rejected because it attempted to delete a resource that has attached subordinate entities. The error message describes these entities.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeleteInstanceProfile  
&InstanceProfileName=Webserver  
&Version=2010-05-08  
&AUTHPARAMS
```

Sample Response

```
<DeleteInstanceProfileResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">  
  <ResponseMetadata>  
    <RequestId>90c18667-99f3-11e1-a4c3-27EXAMPLE804</RequestId>  
  </ResponseMetadata>  
</DeleteInstanceProfileResponse>
```

DeleteLoginProfile

Deletes the password for the specified user, which terminates the user's ability to access AWS services through the AWS Management Console.

Important

Deleting a user's password does not prevent a user from accessing IAM through the command line interface or the API. To prevent all user access you must also either make the access key inactive or delete it. For more information about making keys inactive or deleting them, see [UpdateAccessKey \(p. 236\)](#) and [DeleteAccessKey \(p. 51\)](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

UserName

The name of the user whose password you want to delete.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-]+

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityTemporarilyUnmodifiable

The request was rejected because it referenced an entity that is temporarily unmodifiable, such as a user name that was deleted and then recreated. The error indicates that the request is likely to succeed if you try again after waiting several minutes. The error message describes the entity.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeleteLoginProfile  
&UserName=Bob  
&Version=2010-05-08  
&AUTHPARAMS
```

Sample Response

```
<DeleteLoginProfileResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">  
  
<ResponseMetadata>  
<RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>  
</ResponseMetadata>  
</DeleteLoginProfileResponse>
```

DeleteOpenIDConnectProvider

Deletes an IAM OpenID Connect identity provider.

Deleting an OIDC provider does not update any roles that reference the provider as a principal in their trust policies. Any attempt to assume a role that references a provider that has been deleted will fail.

This action is idempotent; it does not fail or return an error if you call the action for a provider that was already deleted.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

OpenIDConnectProviderArn

The Amazon Resource Name (ARN) of the IAM OpenID Connect provider to delete. You can get a list of OpenID Connect provider ARNs by using the [ListOpenIDConnectProviders \(p. 184\)](#) action.

Type: String

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

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeleteOpenIDConnectProvider
&OpenIDConnectProviderArn=arn:aws:iam::123456789012:oidc-provider/server.example.com
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<DeleteOpenIDConnectProviderResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>b5e49e29-4f64-11e4-aefa-bfd6aEXAMPLE</RequestId>
  </ResponseMetadata>
</DeleteOpenIDConnectProviderResponse>
```

DeletePolicy

Deletes the specified managed policy.

Before you can delete a managed policy, you must detach the policy from all users, groups, and roles that it is attached to, and you must delete all of the policy's versions. The following steps describe the process for deleting a managed policy:

1. Detach the policy from all users, groups, and roles that the policy is attached to, using the [DetachUserPolicy \(p. 92\)](#), [DetachGroupPolicy \(p. 88\)](#), or [DetachRolePolicy \(p. 90\)](#) APIs. To list all the users, groups, and roles that a policy is attached to, use [ListEntitiesForPolicy \(p. 163\)](#).
2. Delete all versions of the policy using [DeletePolicyVersion \(p. 68\)](#). To list the policy's versions, use [ListPolicyVersions \(p. 190\)](#). You cannot use [DeletePolicyVersion \(p. 68\)](#) to delete the version that is marked as the default version. You delete the policy's default version in the next step of the process.
3. Delete the policy (this automatically deletes the policy's default version) using this API.

For information about managed policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

PolicyArn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the *AWS General Reference*.

Type: String

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

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

DeleteConflict

The request was rejected because it attempted to delete a resource that has attached subordinate entities. The error message describes these entities.

HTTP Status Code: 409

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeletePolicy
&PolicyArn=arn:aws:iam::123456789012:policy/S3-read-only-example-bucket
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<DeletePolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>4706281b-3d19-11e4-a4a0-cffb9EXAMPLE</RequestId>
  </ResponseMetadata>
</DeletePolicyResponse>
```

DeletePolicyVersion

Deletes the specified version of the specified managed policy.

You cannot delete the default version of a policy using this API. To delete the default version of a policy, use [DeletePolicy](#) (p. 66). To find out which version of a policy is marked as the default version, use [ListPolicyVersions](#) (p. 190).

For information about versions for managed policies, refer to [Versioning for Managed Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters](#) (p. 301).

PolicyArn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the *AWS General Reference*.

Type: String

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

Required: Yes

VersionId

The policy version to delete.

For more information about managed policy versions, see [Versioning for Managed Policies](#) in the *Using IAM* guide.

Type: String

Pattern: v[1-9][0-9]*(\.[A-Za-z0-9-]*)?

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 303).

DeleteConflict

The request was rejected because it attempted to delete a resource that has attached subordinate entities. The error message describes these entities.

HTTP Status Code: 409

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeletePolicyVersion
&PolicyArn=arn:aws:iam::123456789012:policy/S3-read-only-example-bucket
&VersionId=v2
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<DeletePolicyVersionResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>268e1556-3d19-11e4-a4a0-cffb9EXAMPLE</RequestId>
  </ResponseMetadata>
</DeletePolicyVersionResponse>
```

DeleteRole

Deletes the specified role. The role must not have any policies attached. For more information about roles, go to [Working with Roles](#).

Important

Make sure you do not have any Amazon EC2 instances running with the role you are about to delete. Deleting a role or instance profile that is associated with a running instance will break any applications running on the instance.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

RoleName

The name of the role to delete.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+= , .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

DeleteConflict

The request was rejected because it attempted to delete a resource that has attached subordinate entities. The error message describes these entities.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeleteRole  
&RoleName=S3Access  
&Version=2010-05-08  
&AUTHPARAMS
```

Sample Response

```
<DeleteRoleResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">  
  <ResponseMetadata>  
    <RequestId>913e3f37-99ed-11e1-a4c3-270EXAMPLE04</RequestId>  
  </ResponseMetadata>  
</DeleteRoleResponse>
```

DeleteRolePolicy

Deletes the specified inline policy that is embedded in the specified role.

A role can also have managed policies attached to it. To detach a managed policy from a role, use [DetachRolePolicy \(p. 90\)](#). For more information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

PolicyName

The name identifying the policy document to delete.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

RoleName

The name (friendly name, not ARN) identifying the role that the policy is embedded in.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+= , .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeleteRolePolicy
&PolicyName=S3AccessPolicy
&RoleName=S3Access
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<DeleteRolePolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>c749ee7f-99ef-11e1-a4c3-27EXAMPLE804</RequestId>
  </ResponseMetadata>
</DeleteRolePolicyResponse>
```

DeleteSAMLProvider

Deletes a SAML provider.

Deleting the provider does not update any roles that reference the SAML provider as a principal in their trust policies. Any attempt to assume a role that references a SAML provider that has been deleted will fail.

Note

This operation requires [Signature Version 4](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

SAMLProviderArn

The Amazon Resource Name (ARN) of the SAML provider to delete.

Type: String

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

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeleteSAMLProvider
&Name=arn:aws:iam::123456789012:saml-metadata/MyUniversity
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<DeleteSAMLProviderResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>c749ee7f-99ef-11e1-a4c3-27EXAMPLE804</RequestId>
  </ResponseMetadata>
</DeleteSAMLProviderResponse>
```

DeleteServerCertificate

Deletes the specified server certificate.

Important

If you are using a server certificate with Elastic Load Balancing, deleting the certificate could have implications for your application. If Elastic Load Balancing doesn't detect the deletion of bound certificates, it may continue to use the certificates. This could cause Elastic Load Balancing to stop accepting traffic. We recommend that you remove the reference to the certificate from Elastic Load Balancing before using this command to delete the certificate. For more information, go to [DeleteLoadBalancerListeners](#) in the *Elastic Load Balancing API Reference*.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

ServerCertificateName

The name of the server certificate you want to delete.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

DeleteConflict

The request was rejected because it attempted to delete a resource that has attached subordinate entities. The error message describes these entities.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeleteServerCertificate
&ServerCertificateName=ProdServerCert
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<DeleteServerCertificateResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</DeleteServerCertificateResponse>
```

DeleteSigningCertificate

Deletes the specified signing certificate associated with the specified user.

If you do not specify a user name, IAM determines the user name implicitly based on the AWS access key ID signing the request. Because this action works for access keys under the AWS account, you can use this action to manage root credentials even if the AWS account has no associated users.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

CertificateId

The ID of the signing certificate to delete.

Type: String

Length constraints: Minimum length of 24. Maximum length of 128.

Pattern: [\w] +

Required: Yes

UserName

The name of the user the signing certificate belongs to.

Type: String

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

Pattern: [\w+=, .@-] +

Required: No

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeleteSigningCertificate
&UserName=Bob
&CertificateId=TA7SMP42TDN5Z26OBPJE7EXAMPLE
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<DeleteSigningCertificateResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</DeleteSigningCertificateResponse>
```

DeleteSSHPublicKey

Deletes the specified SSH public key.

The SSH public key deleted by this action is used only for authenticating the associated IAM user to an AWS CodeCommit repository. For more information about using SSH keys to authenticate to an AWS CodeCommit repository, see [Set up AWS CodeCommit for SSH Connections](#) in the *AWS CodeCommit User Guide*.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

SSHPublicKeyId

The unique identifier for the SSH public key.

Type: String

Length constraints: Minimum length of 20. Maximum length of 128.

Pattern: [\w] +

Required: Yes

UserName

The name of the IAM user associated with the SSH public key.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+= , .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeleteSSHPublicKey
&SSHPublicKeyId=APKAEIVFHP4CEXAMPLE
&UserName=Jane
```

```
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<DeleteSSHPublicKeyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>1a21282e-f36e-11e4-a53b-6b544EXAMPLE</RequestId>
  </ResponseMetadata>
</DeleteSSHPublicKeyResponse>
```

DeleteUser

Deletes the specified user. The user must not belong to any groups, have any keys or signing certificates, or have any attached policies.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

UserName

The name of the user to delete.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

DeleteConflict

The request was rejected because it attempted to delete a resource that has attached subordinate entities. The error message describes these entities.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeleteUser
&UserName=Bob
```

```
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<DeleteUserResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</DeleteUserResponse>
```

DeleteUserPolicy

Deletes the specified inline policy that is embedded in the specified user.

A user can also have managed policies attached to it. To detach a managed policy from a user, use [DetachUserPolicy \(p. 92\)](#). For more information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

PolicyName

The name identifying the policy document to delete.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

UserName

The name (friendly name, not ARN) identifying the user that the policy is embedded in.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeleteUserPolicy
&UserName=Bob
&PolicyName=AllAccessPolicy
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<DeleteUserPolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</DeleteUserPolicyResponse>
```

DeleteVirtualMFADevice

Deletes a virtual MFA device.

Note

You must deactivate a user's virtual MFA device before you can delete it. For information about deactivating MFA devices, see [DeactivateMFADevice \(p. 49\)](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

SerialNumber

The serial number that uniquely identifies the MFA device. For virtual MFA devices, the serial number is the same as the ARN.

Type: String

Length constraints: Minimum length of 9. Maximum length of 256.

Pattern: [\w+=/: .@-]+

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

DeleteConflict

The request was rejected because it attempted to delete a resource that has attached subordinate entities. The error message describes these entities.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DeleteVirtualMFADevice
&SerialNumber=arn:aws:iam::123456789012:mfa/ExampleName
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<DeleteVirtualMFADeviceResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <DeleteVirtualMFADeviceResult>
    <VirtualMFADevice>
      <SerialNumber>arn:aws:iam::123456789012:mfa/ExampleName</SerialNumber>
    </VirtualMFADevice>
  </DeleteVirtualMFADeviceResult>
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</DeleteVirtualMFADeviceResponse>
```

DetachGroupPolicy

Removes the specified managed policy from the specified group.

A group can also have inline policies embedded with it. To delete an inline policy, use the [DeleteGroupPolicy \(p. 58\)](#) API. For information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

GroupName

The name (friendly name, not ARN) of the group to detach the policy from.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

PolicyArn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the *AWS General Reference*.

Type: String

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

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DetachGroupPolicy
&GroupName=Finance
&PolicyArn=arn:aws:iam::aws:policy/ReadOnlyAccess
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<DetachGroupPolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>d4faa7aa-3d1d-11e4-a4a0-cffb9EXAMPLE</RequestId>
  </ResponseMetadata>
</DetachGroupPolicyResponse>
```

DetachRolePolicy

Removes the specified managed policy from the specified role.

A role can also have inline policies embedded with it. To delete an inline policy, use the [DeleteRolePolicy](#) (p. 72) API. For information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters](#) (p. 301).

PolicyArn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the *AWS General Reference*.

Type: String

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

Required: Yes

RoleName

The name (friendly name, not ARN) of the role to detach the policy from.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+= , .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 303).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DetachRolePolicy
&PolicyArn=arn:aws:iam::aws:policy/ReadOnlyAccess
&RoleName=ReadOnlyRole
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<DetachRolePolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>4c80ccf4-3d1e-11e4-a4a0-cffb9EXAMPLE</RequestId>
  </ResponseMetadata>
</DetachRolePolicyResponse>
```

DetachUserPolicy

Removes the specified managed policy from the specified user.

A user can also have inline policies embedded with it. To delete an inline policy, use the [DeleteUserPolicy \(p. 84\)](#) API. For information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

PolicyArn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the *AWS General Reference*.

Type: String

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

Required: Yes

UserName

The name (friendly name, not ARN) of the user to detach the policy from.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+= , .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=DetachUserPolicy
&PolicyArn=arn:aws:iam::aws:policy/AdministratorAccess
&UserName=Alice
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<DetachUserPolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>85ba31fa-3d1f-11e4-a4a0-cffb9EXAMPLE</RequestId>
  </ResponseMetadata>
</DetachUserPolicyResponse>
```

EnableMFADevice

Enables the specified MFA device and associates it with the specified user name. When enabled, the MFA device is required for every subsequent login by the user name associated with the device.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

AuthenticationCode1

An authentication code emitted by the device.

Type: String

Length constraints: Minimum length of 6. Maximum length of 6.

Pattern: [\d]+

Required: Yes

AuthenticationCode2

A subsequent authentication code emitted by the device.

Type: String

Length constraints: Minimum length of 6. Maximum length of 6.

Pattern: [\d]+

Required: Yes

SerialNumber

The serial number that uniquely identifies the MFA device. For virtual MFA devices, the serial number is the device ARN.

Type: String

Length constraints: Minimum length of 9. Maximum length of 256.

Pattern: [\w+=/:,.@-]+

Required: Yes

UserName

The name of the user for whom you want to enable the MFA device.

Type: String

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

Pattern: [\w+=,.@-]+

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityAlreadyExists

The request was rejected because it attempted to create a resource that already exists.

HTTP Status Code: 409

EntityTemporarilyUnmodifiable

The request was rejected because it referenced an entity that is temporarily unmodifiable, such as a user name that was deleted and then recreated. The error indicates that the request is likely to succeed if you try again after waiting several minutes. The error message describes the entity.

HTTP Status Code: 409

InvalidAuthenticationCode

The request was rejected because the authentication code was not recognized. The error message describes the specific error.

HTTP Status Code: 403

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=EnableMFADevice
&UserName=Bob
&SerialNumber=R1234
&AuthenticationCode1=234567
&AuthenticationCode2=987654
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<EnableMFADeviceResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<ResponseMetadata>
  <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</EnableMFADeviceResponse>
```


GenerateCredentialReport

Generates a credential report for the AWS account. For more information about the credential report, see [Getting Credential Reports](#) in the *Using IAM* guide.

Response Elements

The following elements are returned.

Description

Information about the credential report.

Type: String

State

Information about the state of the credential report.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=GenerateCredentialReport
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<GenerateCredentialReportResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<GenerateCredentialReportResult>
```

```
<Description>No report exists. Starting a new report generation task</De  
scription>  
<State>STARTED</State>  
</GenerateCredentialReportResult>  
<ResponseMetadata>  
<RequestId>29f47818-99f5-11e1-a4c3-27EXAMPLE804</RequestId>  
</ResponseMetadata>  
</GenerateCredentialReportResponse>
```

GetAccessKeyLastUsed

Retrieves information about when the specified access key was last used. The information includes the date and time of last use, along with the AWS service and region that were specified in the last request made with that key.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

AccessKeyId

The identifier of an access key.

Type: String

Length constraints: Minimum length of 16. Maximum length of 32.

Pattern: [\w]+

Required: Yes

Response Elements

The following elements are returned.

AccessKeyLastUsed

Contains information about the last time the access key was used.

Type: [AccessKeyLastUsed \(p. 272\)](#)

UserName

The name of the AWS IAM user that owns this access key.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

Examples

Sample Request

```
https://iam.amazonaws.com/
```

```
?Action=GetAccessKeyLastUsed
&AccessKeyId=AKIAIOSFODNN7EXAMPLE
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<GetAccessKeyLastUsedResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">

  <GetAccessKeyLastUsedResult>
    <AccessKeyLastUsed>
      <Region>us-west-2</Region>
      <LastUsedDate>2015-03-13T10:45:00Z</LastUsedDate>
      <ServiceName>s3</ServiceName>
    </AccessKeyLastUsed>
    <UserName>bob</UserName>
  </GetAccessKeyLastUsedResult>
  <ResponseMetadata>
    <RequestId>510a6abf-d022-11e4-abe8-9b0ebEXAMPLE</RequestId>
  </ResponseMetadata>
</GetAccessKeyLastUsedResponse>
```

GetAccountAuthorizationDetails

Retrieves information about all IAM users, groups, roles, and policies in your account, including their relationships to one another. Use this API to obtain a snapshot of the configuration of IAM permissions (users, groups, roles, and policies) in your account.

You can optionally filter the results using the `Filter` parameter. You can paginate the results using the `MaxItems` and `Marker` parameters.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Filter.member.N

A list of entity types (user, group, role, local managed policy, or AWS managed policy) for filtering the results.

Type: String list

Valid Values: User | Role | Group | LocalManagedPolicy | AWSManagedPolicy

Required: No

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF]+

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

Response Elements

The following elements are returned.

GroupDetailList

A list containing information about IAM groups.

Type: [GroupDetail \(p. 275\)](#) list

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

Policies

A list containing information about managed policies.

Type: [ManagedPolicyDetail \(p. 279\)](#) list

RoleDetailList

A list containing information about IAM roles.

Type: [RoleDetail \(p. 289\)](#) list

UserDetailList

A list containing information about IAM users.

Type: [UserDetail \(p. 297\)](#) list

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=GetAccountAuthorizationDetails
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<GetAccountAuthorizationDetailsResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <GetAccountAuthorizationDetailsResult>
    <IsTruncated>true</IsTruncated>
```

```
<UserDetailList>
<member>
<GroupList>
<member>Admins</member>
</GroupList>
<AttachedManagedPolicies/>
<UserId>AIDACKCEV р6C2EXAMPLE</UserId>
<Path>/</Path>
<UserName>Alice</UserName>
<Arn>arn:aws:iam::123456789012:user/Alice</Arn>
<CreateDate>2013-10-14T18:32:24Z</CreateDate>
</member>
<member>
<GroupList>
<member>Admins</member>
</GroupList>
<AttachedManagedPolicies/>
<UserPolicyList>
<member>
<PolicyName>DenyBillingAndIAMPolicy</PolicyName>
<PolicyDocument>
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Deny",
      "Action": "aws-portal:*",
      "Resource": "*"
    }
  ]
}</PolicyDocument>
</member>
</UserPolicyList>
<UserId>AIDACKCEV р6C3EXAMPLE</UserId>
<Path>/</Path>
<UserName>Bob</UserName>
<Arn>arn:aws:iam::123456789012:user/Bob</Arn>
<CreateDate>2013-10-14T18:32:25Z</CreateDate>
</member>
<member>
<GroupList>
<member>Dev</member>
</GroupList>
<AttachedManagedPolicies/>
<UserId>AIDACKCEV р6C4EXAMPLE</UserId>
<Path>/</Path>
<UserName>Charlie</UserName>
<Arn>arn:aws:iam::123456789012:user/Charlie</Arn>
<CreateDate>2013-10-14T18:33:56Z</CreateDate>
</member>
<member>
<GroupList>
<member>Dev</member>
</GroupList>
<AttachedManagedPolicies/>
<UserId>AIDACKCEV р6C5EXAMPLE</UserId>
<Path>/</Path>
<UserName>Danielle</UserName>
<Arn>arn:aws:iam::123456789012:user/Danielle</Arn>
<CreateDate>2013-10-14T18:33:56Z</CreateDate>
</member>
<member>
<GroupList>
<member>Finance</member>
</GroupList>
```

```
<AttachedManagedPolicies/>
<UserId>AIDACKCEVSQ6C6EXAMPLE</UserId>
<Path>/</Path>
<UserName>Elaine</UserName>
<Arn>arn:aws:iam::123456789012:user/Elaine</Arn>
<CreateDate>2013-10-14T18:57:48Z</CreateDate>
</member>
</UserDetailList>
<Marker>
EXAMPLEkakv9BCuUNFDtxWSyfzetYwEx2ADc8dnzfvERF5S6YMvXKx41t6gCl/eeaCX3Jo94/
bKqezEAg8TEVS99EKFLxm3jtbl25FDWEXAMPLE
</Marker>
<GroupDetailList>
<member>
<GroupId>AIDACKCEVSQ6C7EXAMPLE</GroupId>
<AttachedManagedPolicies>
<member>
<PolicyName>AdministratorAccess</PolicyName>
<PolicyArn>arn:aws:iam::aws:policy/AdministratorAccess</PolicyArn>
</member>
</AttachedManagedPolicies>
<GroupName>Admins</GroupName>
<Path>/</Path>
<Arn>arn:aws:iam::123456789012:group/Admins</Arn>
<CreateDate>2013-10-14T18:32:24Z</CreateDate>
<GroupPolicyList/>
</member>
<member>
<GroupId>AIDACKCEVSQ6C8EXAMPLE</GroupId>
<AttachedManagedPolicies>
<member>
<PolicyName>PowerUserAccess</PolicyName>
<PolicyArn>arn:aws:iam::aws:policy/PowerUserAccess</PolicyArn>
</member>
</AttachedManagedPolicies>
<GroupName>Dev</GroupName>
<Path>/</Path>
<Arn>arn:aws:iam::123456789012:group/Dev</Arn>
<CreateDate>2013-10-14T18:33:55Z</CreateDate>
<GroupPolicyList/>
</member>
<member>
<GroupId>AIDACKCEVSQ6C9EXAMPLE</GroupId>
<AttachedManagedPolicies/>
<GroupName>Finance</GroupName>
<Path>/</Path>
<Arn>arn:aws:iam::123456789012:group/Finance</Arn>
<CreateDate>2013-10-14T18:57:48Z</CreateDate>
<GroupPolicyList>
<member>
<PolicyName>policygen-201310141157</PolicyName>
<PolicyDocument>
{ "Version": "2012-10-17", "Statement": [ { "Action": [ "aws-portal:*" ],
"Sid": "Stmt1381777017000", "Resource": [ "*" ], "Effect": "Allow" } ] }
</PolicyDocument>
```

```
</member>
</GroupPolicyList>
</member>
</GroupDetailList>
<RoleDetailList>
<member>
<RolePolicyList/>
<AttachedManagedPolicies>
<member>
<PolicyName>AmazonS3FullAccess</PolicyName>
<PolicyArn>arn:aws:iam::aws:policy/AmazonS3FullAccess</PolicyArn>
</member>
<member>
<PolicyName>AmazonDynamoDBFullAccess</PolicyName>
<PolicyArn>arn:aws:iam::aws:policy/AmazonDynamoDBFullAccess</PolicyArn>
</member>
</AttachedManagedPolicies>
<InstanceProfileList>
<member>
<InstanceProfileName>EC2role</InstanceProfileName>
<Roles>
<member>
<Path>/</Path>
<Arn>arn:aws:iam::123456789012:role/EC2role</Arn>
<RoleName>EC2role</RoleName>
<AssumeRolePolicyDocument>
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "",
            "Effect": "Allow",
            "Principal": {
                "Service": "ec2.amazonaws.com"
            },
            "Action": "sts:AssumeRole"
        }
    ]
}
</AssumeRolePolicyDocument>
<CreateDate>2014-07-30T17:09:20Z</CreateDate>
<RoleId>AROAFP4BKI7Y7TEXAMPLE</RoleId>
</member>
</Roles>
<Path>/</Path>
<Arn>arn:aws:iam::123456789012:instance-profile/EC2role</Arn>
<InstanceProfileId>AIPAFFYRBHWXW2EXAMPLE</InstanceProfileId>
<CreateDate>2014-07-30T17:09:20Z</CreateDate>
</member>
</InstanceProfileList>
<Path>/</Path>
<Arn>arn:aws:iam::123456789012:role/EC2role</Arn>
<RoleName>EC2role</RoleName>
<AssumeRolePolicyDocument>
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "",
            "Effect": "Allow",
            "Principal": {
                "Service": "ec2.amazonaws.com"
            },
            "Action": "sts:AssumeRole"
        }
    ]
}
</AssumeRolePolicyDocument>
<CreateDate>2014-07-30T17:09:20Z</CreateDate>
<RoleId>AROAFP4BKI7Y7TEXAMPLE</RoleId>
</member>
</RoleDetailList>
<Policies>
<member>
<PolicyName>create-update-delete-set-managed-policies</PolicyName>
<DefaultVersionId>v1</DefaultVersionId>
```

```
<PolicyId>ANPAJ2UCCR6DPCEEXAMPLE</PolicyId>
<Path>/</Path>
<PolicyVersionList>
  <member>
    <Document>
      { "Version": "2012-10-17", "Statement": { "Effect": "Allow", "Action": [ "iam:CreatePolicy", "iam:CreatePolicyVersion", "iam>DeletePolicy", "iam>DeletePolicyVersion", "iam:GetPolicy", "iam:GetPolicyVersion", "iam>ListPolicies", "iam>ListPolicyVersions", "iam:SetDefaultPolicyVersion" ], "Resource": "*" } }
    </Document>
    <IsDefaultVersion>true</IsDefaultVersion>
    <VersionId>v1</VersionId>
    <CreateDate>2015-02-06T19:58:34Z</CreateDate>
  </member>
</PolicyVersionList>
<Arn>
  arn:aws:iam::123456789012:policy/create-update-delete-set-managed-policies
</Arn>
<AttachmentCount>1</AttachmentCount>
<CreateDate>2015-02-06T19:58:34Z</CreateDate>
<IsAttachable>true</IsAttachable>
<UpdateDate>2015-02-06T19:58:34Z</UpdateDate>
</member>
<member>
  <PolicyName>S3-read-only-specific-bucket</PolicyName>
  <DefaultVersionId>v1</DefaultVersionId>
  <PolicyId>ANPAJ4AE5446DAEXAMPLE</PolicyId>
  <Path>/</Path>
  <PolicyVersionList>
    <member>
      <Document>
        { "Version": "2012-10-17", "Statement": [ { "Effect": "Allow", "Action": [ "s3:Get*", "s3>List*" ], "Resource": [ "arn:aws:s3:::example-bucket", "arn:aws:s3:::example-bucket/*" ] } ] }
      </Document>
      <IsDefaultVersion>true</IsDefaultVersion>
      <VersionId>v1</VersionId>
      <CreateDate>2015-01-21T21:39:41Z</CreateDate>
    </member>
  </PolicyVersionList>
<Arn>arn:aws:iam::123456789012:policy/S3-read-only-specific-bucket</Arn>

<AttachmentCount>1</AttachmentCount>
<CreateDate>2015-01-21T21:39:41Z</CreateDate>
<IsAttachable>true</IsAttachable>
<UpdateDate>2015-01-21T23:39:41Z</UpdateDate>
</member>
<member>
  <PolicyName>AWSOpsWorksRole</PolicyName>
  <DefaultVersionId>v1</DefaultVersionId>
  <PolicyId>ANPAE376NQ77WV6KGJEBE</PolicyId>
  <Path>/service-role/</Path>
  <PolicyVersionList>
```

```
<member>
<Document>
  { "Version": "2012-10-17", "Statement": [ { "Effect": "Allow", "Action": [
    "cloudwatch:GetMetricStatistics", "ec2:DescribeAccountAttributes",
    "ec2:DescribeAvailabilityZones", "ec2:DescribeInstances",
    "ec2:DescribeKeyPairs", "ec2:DescribeSecurityGroups", "ec2:DescribeSubnets",
    "ec2:DescribeVpcs", "elasticloadbalancing:DescribeInstanceHealth",
    "elasticloadbalancing:DescribeLoadBalancers", "iam:GetRolePolicy",
    "iam>ListInstanceProfiles", "iam>ListRoles", "iam>ListUsers",
    "iam:PassRole", "opsworks:*", "rds:*"], "Resource": ["*"] } ] }
</Document>
<IsDefaultVersion>true</IsDefaultVersion>
<VersionId>v1</VersionId>
<CreateDate>2014-12-10T22:57:47Z</CreateDate>
</member>
</PolicyVersionList>
<Arn>arn:aws:iam::aws:policy/service-role/AWSOpsWorksRole</Arn>
<AttachmentCount>1</AttachmentCount>
<CreateDate>2015-02-06T18:41:27Z</CreateDate>
<IsAttachable>true</IsAttachable>
<UpdateDate>2015-02-06T18:41:27Z</UpdateDate>
</member>
<member>
  <PolicyName>AmazonEC2FullAccess</PolicyName>
  <DefaultVersionId>v1</DefaultVersionId>
  <PolicyId>ANPAE3QWE5YT46TQ34WLG</PolicyId>
  <Path>/</Path>
  <PolicyVersionList>
    <member>
      <Document>
        { "Version": "2012-10-17", "Statement": [ { "Action": "ec2:*",
          "Effect": "Allow", "Resource": "*"}, { "Effect": "Allow",
          "Action": "elasticloadbalancing:*", "Resource": "*"}, {"Effect": "Al
low",
          "Action": "cloudwatch:*", "Resource": "*"}, {"Effect": "Allow",
          "Action": "autoscaling:*", "Resource": "*"} ] }
      </Document>
      <IsDefaultVersion>true</IsDefaultVersion>
      <VersionId>v1</VersionId>
      <CreateDate>2014-10-30T20:59:46Z</CreateDate>
    </member>
  </PolicyVersionList>
  <Arn>arn:aws:iam::aws:policy/AmazonEC2FullAccess</Arn>
  <AttachmentCount>1</AttachmentCount>
  <CreateDate>2015-02-06T18:40:15Z</CreateDate>
  <IsAttachable>true</IsAttachable>
  <UpdateDate>2015-02-06T18:40:15Z</UpdateDate>
</member>
</Policies>
</GetAccountAuthorizationDetailsResult>
<ResponseMetadata>
  <RequestId>92e79ae7-7399-11e4-8c85-4b53eEXAMPLE</RequestId>
</ResponseMetadata>
```

```
</GetAccountAuthorizationDetailsResponse>
```

GetAccountPasswordPolicy

Retrieves the password policy for the AWS account. For more information about using a password policy, go to [Managing an IAM Password Policy](#).

Response Elements

The following element is returned.

PasswordPolicy

Contains information about the account password policy.

This data type is used as a response element in the [GetAccountPasswordPolicy \(p. 109\)](#) action.

Type: [PasswordPolicy \(p. 282\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=GetAccountPasswordPolicy
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<GetAccountPasswordPolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<GetAccountPasswordPolicyResult>
<PasswordPolicy>
<AllowUsersToChangePassword>true</AllowUsersToChangePassword>
```

```
<RequireUppercaseCharacters>true</RequireUppercaseCharacters>
<RequireSymbols>true</RequireSymbols>
<ExpirePasswords>false</ExpirePasswords>
<PasswordReusePrevention>12</PasswordReusePrevention>
<RequireLowercaseCharacters>true</RequireLowercaseCharacters>
<MaxPasswordAge>90</MaxPasswordAge>
<HardExpiry>false</HardExpiry>
<RequireNumbers>true</RequireNumbers>
<MinimumPasswordLength>12</MinimumPasswordLength>
</PasswordPolicy>
</GetAccountPasswordPolicyResult>
<ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</GetAccountPasswordPolicyResponse>
```

GetAccountSummary

Retrieves information about IAM entity usage and IAM quotas in the AWS account.

For information about limitations on IAM entities, see [Limitations on IAM Entities](#) in the *Using IAM* guide.

Response Elements

The following element is returned.

SummaryMap

A set of key value pairs containing information about IAM entity usage and IAM quotas.

SummaryMap contains the following keys:

- **AccessKeysPerUserQuota**

The maximum number of active access keys allowed for each IAM user.

- **AccountAccessKeysPresent**

This value is 1 if the AWS account (root) has an access key, otherwise it is 0.

- **AccountMFAEnabled**

This value is 1 if the AWS account (root) has an MFA device assigned, otherwise it is 0.

- **AccountSigningCertificatesPresent**

This value is 1 if the AWS account (root) has a signing certificate, otherwise it is 0.

- **AssumeRolePolicySizeQuota**

The maximum allowed size for assume role policy documents (trust policies), in non-whitespace characters.

- **AttachedPoliciesPerGroupQuota**

The maximum number of managed policies that can be attached to an IAM group.

- **AttachedPoliciesPerRoleQuota**

The maximum number of managed policies that can be attached to an IAM role.

- **AttachedPoliciesPerUserQuota**

The maximum number of managed policies that can be attached to an IAM user.

- **GroupPolicySizeQuota**

The maximum allowed size for the aggregate of all inline policies embedded in an IAM group, in non-whitespace characters.

- **Groups**

The number of IAM groups in the AWS account.

- **GroupsPerUserQuota**

The maximum number of IAM groups each IAM user can belong to.

- **GroupsQuota**

The maximum number of IAM groups allowed in the AWS account.

- **InstanceProfiles**

The number of instance profiles in the AWS account.

- **InstanceProfilesQuota**

The maximum number of instance profiles allowed in the AWS account.

- **MFADevices**

The number of MFA devices in the AWS account, including those assigned and unassigned.

- **MFADevicesInUse**

The number of MFA devices that have been assigned to an IAM user or to the AWS account (root).

- **Policies**

The number of customer managed policies in the AWS account.

- **PoliciesQuota**

The maximum number of customer managed policies allowed in the AWS account.

- **PolicySizeQuota**

The maximum allowed size of a customer managed policy, in non-whitespace characters.

- **PolicyVersionsInUse**

The number of managed policies that are attached to IAM users, groups, or roles in the AWS account.

- **PolicyVersionsInUseQuota**

The maximum number of managed policies that can be attached to IAM users, groups, or roles in the AWS account.

- **Providers**

The number of identity providers in the AWS account.

- **RolePolicySizeQuota**

The maximum allowed size for the aggregate of all inline policies (access policies, not the trust policy) embedded in an IAM role, in non-whitespace characters.

- **Roles**

The number of IAM roles in the AWS account.

- **RolesQuota**

The maximum number of IAM roles allowed in the AWS account.

- **ServerCertificates**

The number of server certificates in the AWS account.

- **ServerCertificatesQuota**

The maximum number of server certificates allowed in the AWS account.

- **SigningCertificatesPerUserQuota**

The maximum number of X.509 signing certificates allowed for each IAM user.

- **UserPolicySizeQuota**

The maximum allowed size for the aggregate of all inline policies embedded in an IAM user, in non-whitespace characters.

- **Users**

The number of IAM users in the AWS account.

- **UsersQuota**

The maximum number of IAM users allowed in the AWS account.

- **VersionsPerPolicyQuota**

The maximum number of policy versions allowed for each managed policy.

Type: String to Integer map

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=GetAccountSummary
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<GetAccountSummaryResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<GetAccountSummaryResult>
<SummaryMap>
<entry>
<key>Users</key>
<value>32</value>
</entry>
<entry>
<key>GroupPolicySizeQuota</key>
<value>10240</value>
</entry>
<entry>
<key>PolicyVersionsInUseQuota</key>
<value>10000</value>
</entry>
<entry>
<key>ServerCertificatesQuota</key>
<value>20</value>
</entry>
<entry>
<key>AccountSigningCertificatesPresent</key>
```

```
<value>0</value>
</entry>
<entry>
<key>AccountAccessKeysPresent</key>
<value>0</value>
</entry>
<entry>
<key>Groups</key>
<value>7</value>
</entry>
<entry>
<key>UsersQuota</key>
<value>150</value>
</entry>
<entry>
<key>RolePolicySizeQuota</key>
<value>2048</value>
</entry>
<entry>
<key>UserPolicySizeQuota</key>
<value>10240</value>
</entry>
<entry>
<key>GroupsPerUserQuota</key>
<value>10</value>
</entry>
<entry>
<key>AssumeRolePolicySizeQuota</key>
<value>2048</value>
</entry>
<entry>
<key>AttachedPoliciesPerGroupQuota</key>
<value>2</value>
</entry>
<entry>
<key>Roles</key>
<value>18</value>
</entry>
<entry>
<key>VersionsPerPolicyQuota</key>
<value>5</value>
</entry>
<entry>
<key>GroupsQuota</key>
<value>50</value>
</entry>
<entry>
<key>PolicySizeQuota</key>
<value>5120</value>
</entry>
<entry>
<key>Policies</key>
<value>22</value>
</entry>
<entry>
<key>RolesQuota</key>
<value>250</value>
</entry>
```

```
<entry>
    <key>ServerCertificates</key>
    <value>1</value>
</entry>
<entry>
    <key>AttachedPoliciesPerRoleQuota</key>
    <value>2</value>
</entry>
<entry>
    <key>MFADevicesInUse</key>
    <value>4</value>
</entry>
<entry>
    <key>PoliciesQuota</key>
    <value>1000</value>
</entry>
<entry>
    <key>AccountMFAEnabled</key>
    <value>1</value>
</entry>
<entry>
    <key>Providers</key>
    <value>3</value>
</entry>
<entry>
    <key>InstanceProfilesQuota</key>
    <value>100</value>
</entry>
<entry>
    <key>MFADevices</key>
    <value>4</value>
</entry>
<entry>
    <key>AccessKeysPerUserQuota</key>
    <value>2</value>
</entry>
<entry>
    <key>AttachedPoliciesPerUserQuota</key>
    <value>2</value>
</entry>
<entry>
    <key>SigningCertificatesPerUserQuota</key>
    <value>2</value>
</entry>
<entry>
    <key>PolicyVersionsInUse</key>
    <value>27</value>
</entry>
<entry>
    <key>InstanceProfiles</key>
    <value>12</value>
</entry>
</SummaryMap>
</GetAccountSummaryResult>
<ResponseMetadata>
    <RequestId>85cb9b90-ac28-11e4-a88d-97964EXAMPLE</RequestId>
</ResponseMetadata>
</GetAccountSummaryResponse>
```


GetCredentialReport

Retrieves a credential report for the AWS account. For more information about the credential report, see [Getting Credential Reports](#) in the *Using IAM* guide.

Response Elements

The following elements are returned.

Content

Contains the credential report. The report is Base64-encoded.

Type: Blob

GeneratedTime

The date and time when the credential report was created, in [ISO 8601 date-time format](#).

Type: DateTime

ReportFormat

The format (MIME type) of the credential report.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

CredentialReportExpired

The request was rejected because the most recent credential report has expired. To generate a new credential report, use [GenerateCredentialReport \(p. 97\)](#). For more information about credential report expiration, see [Getting Credential Reports](#) in the *Using IAM* guide.

HTTP Status Code: 410

CredentialReportNotPresent

The request was rejected because the credential report does not exist. To generate a credential report, use [GenerateCredentialReport \(p. 97\)](#).

HTTP Status Code: 410

CredentialReportNotReady

The request was rejected because the credential report is still being generated.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=GetCredentialReport
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<GetCredentialReportResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<GetCredentialReportResult>
    <Content>BASE-64 ENCODED FILE CONTENTS</Content>
    <ReportFormat>text/csv</ReportFormat>
    <GeneratedTime>2014-08-28T21:42:50Z</GeneratedTime>
</GetCredentialReportResult>
<ResponseMetadata>
    <RequestId>29f47818-99f5-11e1-a4c3-27EXAMPLE804</RequestId>
</ResponseMetadata>
</GetCredentialReportResponse>
```

GetGroup

Returns a list of users that are in the specified group. You can paginate the results using the `MaxItems` and `Marker` parameters.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

GroupName

The name of the group.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF] +

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

Response Elements

The following elements are returned.

Group

Information about the group.

Type: [Group \(p. 274\)](#)

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

Users

A list of users in the group.

Type: [User \(p. 296\)](#) list

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=GetGroup
&GroupName=Admins
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<GetGroupResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<GetGroupResult>
<Group>
<Path>/</Path>
<GroupName>Admins</GroupName>
<GroupId>AGPACKCEVSQ6C2EXAMPLE</GroupId>
<Arn>arn:aws:iam::123456789012:group/Admins</Arn>
</Group>
<Users>
<member>
<Path>/division_abc/subdivision_xyz/</Path>
```

```
<UserName>Bob</UserName>
<UserId>AIDACKCEVSQ6C2EXAMPLE</UserId>
<Arn>
arn:aws:iam::123456789012:user/division_abc/subdivision_xyz/Bob
</Arn>
</member>
<member>
<Path>/division_abc/subdivision_xyz/</Path>
<UserName>Susan</UserName>
<UserId>AIDACKCEVSQ6C2EXAMPLE</UserId>
<Arn>
arn:aws:iam::123456789012:user/division_abc/subdivision_xyz/Susan
</Arn>
</member>
</Users>
<IsTruncated>false</IsTruncated>
</GetGroupResult>
<ResponseMetadata>
<RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</GetGroupResponse>
```

GetGroupPolicy

Retrieves the specified inline policy document that is embedded in the specified group.

A group can also have managed policies attached to it. To retrieve a managed policy document that is attached to a group, use [GetPolicy \(p. 130\)](#) to determine the policy's default version, then use [GetPolicyVersion \(p. 132\)](#) to retrieve the policy document.

For more information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

GroupName

The name of the group the policy is associated with.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

PolicyName

The name of the policy document to get.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

Response Elements

The following elements are returned.

GroupName

The group the policy is associated with.

Type: String

PolicyDocument

The policy document.

Type: String

PolicyName

The name of the policy.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=GetGroupPolicy
&GroupName=Admins
&PolicyName=AdminRoot
&AUTHPARAMS
```

Sample Response

```
<GetGroupPolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<GetGroupPolicyResult>
    <GroupName>Admins</GroupName>
    <PolicyName>AdminRoot</PolicyName>
    <PolicyDocument>
        {"Version": "2012-10-17", "Statement": {"Effect": "Allow", "Action": "*", "Resource": "*"}}
    </PolicyDocument>
</GetGroupPolicyResult>
<ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</GetGroupPolicyResponse>
```

GetInstanceProfile

Retrieves information about the specified instance profile, including the instance profile's path, GUID, ARN, and role. For more information about instance profiles, go to [About Instance Profiles](#). For more information about ARNs, go to [ARNs](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

InstanceProfileName

The name of the instance profile to get information about.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

Response Elements

The following element is returned.

InstanceProfile

Information about the instance profile.

Type: [InstanceProfile \(p. 277\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=GetInstanceProfile
```

```
&InstanceProfileName=Webserver
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<GetInstanceProfileResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<GetInstanceProfileResult>
    <InstanceProfile>
        <InstanceProfileId>AIPAD5ARO2C5EXAMPLE3G</InstanceProfileId>
        <Roles>
            <member>
                <Path>/application_abc/component_xyz/</Path>
                <Arn>arn:aws:iam::123456789012:role/application_abc/component_xyz/S3Access</Arn>
                <RoleName>S3Access</RoleName>
                <AssumeRolePolicyDocument>
                    {
                        "Version": "2012-10-17",
                        "Statement": [
                            {
                                "Effect": "Allow",
                                "Principal": {
                                    "Service": ["ec2.amazonaws.com"]
                                },
                                "Action": ["sts:AssumeRole"]
                            }
                        ]
                    }
                </AssumeRolePolicyDocument>
                <CreateDate>2012-05-09T15:45:35Z</CreateDate>
                <RoleId>AROACVYKSVTZFEXAMPLE</RoleId>
            </member>
        </Roles>
        <InstanceProfileName>Webserver</InstanceProfileName>
        <Path>/application_abc/component_xyz/</Path>
        <Arn>arn:aws:iam::123456789012:instance-profile/application_abc/component_xyz/Webserver</Arn>
        <CreateDate>2012-05-09T16:11:10Z</CreateDate>
    </InstanceProfile>
</GetInstanceProfileResult>
<ResponseMetadata>
    <RequestId>37289fda-99f2-11e1-a4c3-27EXAMPLE804</RequestId>
</ResponseMetadata>
</GetInstanceProfileResponse>
```

GetLoginProfile

Retrieves the user name and password-creation date for the specified user. If the user has not been assigned a password, the action returns a 404 (NoSuchEntity) error.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

UserName

The name of the user whose login profile you want to retrieve.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-] +

Required: Yes

Response Elements

The following element is returned.

LoginProfile

The user name and password create date for the user.

Type: [LoginProfile \(p. 278\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=GetLoginProfile
&UserName=Bob
```

```
&AUTHPARAMS
```

Sample Response

```
<GetLoginProfileResponse>
  <GetLoginProfileResult>
    <LoginProfile>
      <UserName>Bob</UserName>
      <CreateDate>2011-09-19T23:00:56Z</CreateDate>
    </LoginProfile>
  </GetLoginProfileResult>
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</GetLoginProfileResponse>
```

GetOpenIDConnectProvider

Returns information about the specified OpenID Connect provider.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

OpenIDConnectProviderArn

The Amazon Resource Name (ARN) of the IAM OpenID Connect (OIDC) provider to get information for. You can get a list of OIDC provider ARNs by using the [ListOpenIDConnectProviders \(p. 184\)](#) action.

Type: String

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

Required: Yes

Response Elements

The following elements are returned.

ClientIDList

A list of client IDs (also known as audiences) that are associated with the specified IAM OpenID Connect provider. For more information, see [CreateOpenIDConnectProvider \(p. 30\)](#).

Type: String list

Length constraints: Minimum length of 1. Maximum length of 255.

CreateDate

The date and time when the IAM OpenID Connect provider entity was created in the AWS account.

Type: DateTime

ThumbprintList

A list of certificate thumbprints that are associated with the specified IAM OpenID Connect provider. For more information, see [CreateOpenIDConnectProvider \(p. 30\)](#).

Type: String list

Length constraints: Minimum length of 40. Maximum length of 40.

Url

The URL that the IAM OpenID Connect provider is associated with. For more information, see [CreateOpenIDConnectProvider \(p. 30\)](#).

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=GetOpenIDConnectProvider
&OpenIDConnectProviderArn=arn:aws:iam::123456789012:oidc-provider/example.com
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<GetOpenIDConnectProviderResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <GetOpenIDConnectProviderResult>
    <ThumbprintList>
      <member>c3768084dfb3d2b68b7897bf5f565da8eEXAMPLE</member>
    </ThumbprintList>
    <CreateDate>2014-10-09T03:32:51.398Z</CreateDate>
    <ClientIDList>
      <member>my-application-ID</member>
    </ClientIDList>
    <Url>server.example.com</Url>
  </GetOpenIDConnectProviderResult>
  <ResponseMetadata>
    <RequestId>2c91531b-4f65-11e4-aefa-bfd6aEXAMPLE</RequestId>
  </ResponseMetadata>
</GetOpenIDConnectProviderResponse>
```

GetPolicy

Retrieves information about the specified managed policy, including the policy's default version and the total number of users, groups, and roles that the policy is attached to. For a list of the specific users, groups, and roles that the policy is attached to, use the [ListEntitiesForPolicy \(p. 163\)](#) API. This API returns metadata about the policy. To retrieve the policy document for a specific version of the policy, use [GetPolicyVersion \(p. 132\)](#).

This API retrieves information about managed policies. To retrieve information about an inline policy that is embedded with a user, group, or role, use the [GetUserPolicy \(p. 147\)](#), [GetGroupPolicy \(p. 122\)](#), or [GetRolePolicy \(p. 136\)](#) API.

For more information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

PolicyArn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the *AWS General Reference*.

Type: String

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

Required: Yes

Response Elements

The following element is returned.

Policy

Information about the policy.

Type: [Policy \(p. 283\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=GetPolicy
&PolicyArn=arn:aws:iam::123456789012:policy/S3-read-only-example-bucket
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<GetPolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <GetPolicyResult>
    <Policy>
      <PolicyName>S3-read-only-example-bucket</PolicyName>
      <DefaultVersionId>v1</DefaultVersionId>
      <PolicyId>AGPACKCEVVSQ6C2EXAMPLE</PolicyId>
      <Path>/</Path>
      <Arn>arn:aws:iam::123456789012:policy/S3-read-only-example-bucket</Arn>
      <AttachmentCount>9</AttachmentCount>
      <CreateDate>2014-09-15T17:36:14Z</CreateDate>
      <UpdateDate>2014-09-15T20:31:47Z</UpdateDate>
    </Policy>
  </GetPolicyResult>
  <ResponseMetadata>
    <RequestId>684f0917-3d22-11e4-a4a0-cffb9EXAMPLE</RequestId>
  </ResponseMetadata>
</GetPolicyResponse>
```

GetPolicyVersion

Retrieves information about the specified version of the specified managed policy, including the policy document.

To list the available versions for a policy, use [ListPolicyVersions \(p. 190\)](#).

This API retrieves information about managed policies. To retrieve information about an inline policy that is embedded in a user, group, or role, use the [GetUserPolicy \(p. 147\)](#), [GetGroupPolicy \(p. 122\)](#), or [GetRolePolicy \(p. 136\)](#) API.

For more information about the types of policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

PolicyArn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the *AWS General Reference*.

Type: String

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

Required: Yes

VersionId

Identifies the policy version to retrieve.

Type: String

Pattern: v[1-9][0-9]*(\.[A-Za-z0-9-]*)?

Required: Yes

Response Elements

The following element is returned.

PolicyVersion

Information about the policy version.

For more information about managed policy versions, see [Versioning for Managed Policies](#) in the *Using IAM* guide.

Type: [PolicyVersion \(p. 287\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=GetPolicyVersion
&PolicyArn=arn:aws:iam::123456789012:policy/S3-read-only-example-bucket
&VersionId=v1
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<GetPolicyVersionResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <GetPolicyVersionResult>
    <PolicyVersion>
      <Document>
        { "Version": "2012-10-17", "Statement": [ { "Effect": "Allow", "Action": [ "s3:Get*", "s3>List*" ], "Resource": [ "arn:aws:s3:::EXAMPLE-BUCKET", "arn:aws:s3:::EXAMPLE-BUCKET/*" ] } ] }
      </Document>
      <IsDefaultVersion>true</IsDefaultVersion>
      <VersionId>v1</VersionId>
      <CreateDate>2014-09-15T20:31:47Z</CreateDate>
    </PolicyVersion>
  </GetPolicyVersionResult>
  <ResponseMetadata>
    <RequestId>d472f28e-3d23-11e4-a4a0-cffb9EXAMPLE</RequestId>
  </ResponseMetadata>
</GetPolicyVersionResponse>
```

GetRole

Retrieves information about the specified role, including the role's path, GUID, ARN, and the policy granting permission to assume the role. For more information about ARNs, go to [ARNs](#). For more information about roles, go to [Working with Roles](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

RoleName

The name of the role to get information about.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+= , .@-] +

Required: Yes

Response Elements

The following element is returned.

Role

Information about the role.

Type: [Role \(p. 288\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=GetRole
```

```
&RoleName=S3Access
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<GetRoleResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<GetRoleResult>
  <Role>
    <Path>/application_abc/component_xyz/</Path>
    <Arn>arn:aws:iam::123456789012:role/application_abc/component_xyz/S3Access</Arn>
    <RoleName>S3Access</RoleName>
    <AssumeRolePolicyDocument>
      {"Version": "2012-10-17", "Statement": [{"Effect": "Allow",
        "Principal": {"Service": ["ec2.amazonaws.com"]}, "Action": ["sts:AssumeRole"]}]}
    </AssumeRolePolicyDocument>
    <CreateDate>2012-05-08T23:34:01Z</CreateDate>
    <RoleId>AROADBQP57FF2AEXAMPLE</RoleId>
  </Role>
</GetRoleResult>
<ResponseMetadata>
  <RequestId>df37e965-9967-11e1-a4c3-270EXAMPLE04</RequestId>
</ResponseMetadata>
</GetRoleResponse>
```

GetRolePolicy

Retrieves the specified inline policy document that is embedded with the specified role.

A role can also have managed policies attached to it. To retrieve a managed policy document that is attached to a role, use [GetPolicy \(p. 130\)](#) to determine the policy's default version, then use [GetPolicyVersion \(p. 132\)](#) to retrieve the policy document.

For more information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

For more information about roles, go to [Using Roles to Delegate Permissions and Federate Identities](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

PolicyName

The name of the policy document to get.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

RoleName

The name of the role associated with the policy.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+= , .@-] +

Required: Yes

Response Elements

The following elements are returned.

PolicyDocument

The policy document.

Type: String

PolicyName

The name of the policy.

Type: String

RoleName

The role the policy is associated with.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=GetRolePolicy
&PolicyName=S3AccessPolicy
&RoleName=S3Access
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<GetRolePolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<GetRolePolicyResult>
  <PolicyName>S3AccessPolicy</PolicyName>
  <RoleName>S3Access</RoleName>
  <PolicyDocument>
    {"Version": "2012-10-17", "Statement": [{"Effect": "Allow", "Action": ["s3:*"], "Resource": ["*"]}]}
  </PolicyDocument>
</GetRolePolicyResult>
<ResponseMetadata>
  <RequestId>7e7cd8bc-99ef-11e1-a4c3-27EXAMPLE804</RequestId>
</ResponseMetadata>
</GetRolePolicyResponse>
```

GetSAMLProvider

Returns the SAML provider metadocument that was uploaded when the provider was created or updated.

Note

This operation requires [Signature Version 4](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

SAMLProviderArn

The Amazon Resource Name (ARN) of the SAML provider to get information about.

Type: String

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

Required: Yes

Response Elements

The following elements are returned.

CreateDate

The date and time when the SAML provider was created.

Type: DateTime

SAMLMetadataDocument

The XML metadata document that includes information about an identity provider.

Type: String

ValidUntil

The expiration date and time for the SAML provider.

Type: DateTime

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=GetSAMLProvider
&Name=arn:aws:iam::123456789012:saml-metadata/MyUniversity
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<GetSAMLProviderResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<GetSAMLProviderResult>
  <CreateDate>2012-05-09T16:27:11Z</CreateDate>
  <ValidUntil>2015-12-31T21:59:59Z</ValidUntil>
  <SAMLMetadataDocument>Pd9fexDssTkRgGNqs...DxptfEs==</SAMLMetadataDocument>
</GetSAMLProviderResult>
<ResponseMetadata>
  <RequestId>29f47818-99f5-11e1-a4c3-27EXAMPLE804</RequestId>
</ResponseMetadata>
</GetSAMLProviderResponse>
```

GetServerCertificate

Retrieves information about the specified server certificate.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

ServerCertificateName

The name of the server certificate you want to retrieve information about.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

Response Elements

The following element is returned.

ServerCertificate

Information about the server certificate.

Type: [ServerCertificate \(p. 291\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=GetServerCertificate
&ServerCertificateName=ProdServerCert
&Version=2010-05-08
```

```
&AUTHPARAMS
```

Sample Response

```
<GetServerCertificateResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<GetServerCertificateResult>
  <ServerCertificate>
    <ServerCertificateMetadata>
      <ServerCertificateName>ProdServerCert</ServerCertificateName>
      <Path>/company/servercerts/</Path>
      <Arn>arn:aws:iam::123456789012:server-certificate/company/servercerts/Prod
ServerCert</Arn>
      <UploadDate>2010-05-08T01:02:03.004Z</UploadDate>
      <ServerCertificateId>ASCACKCEVSQ6C2EXAMPLE</ServerCertificateId>
      <Expiration>2012-05-08T01:02:03.004Z</Expiration>
    </ServerCertificateMetadata>
    <CertificateBody>
-----BEGIN CERTIFICATE-----
MIICdzCCAeCgAwIBAgIGANC+Ha2wMA0GCSqGSIb3DQEBBQUAMFMxCzAJBgNVBAYT
AlVTMRMwEQYDVQQKEwpBbWF6b24uY29tMQwwCgYDVQQLEwNBV1MxITAfBgNVBAMT
GEFXUyBMaW1pdGVkLUFzc3VyyW5jZSBDOQTAeFw0wOTAyMDQxNzE5MjdaFw0xMDAy
MDQxNzE5MjdaMFIXcZAJBgNVBAYTA1VTMRMwEQYDVQQKEwpBbWF6b24uY29tMRcw
FQYDVQQLEw5BV1MtRGV2ZWxvcGVyczEVMBMGA1UEAxMMNTdxNDl0c3ZwYjRtMIGf
MA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQCpB/vsOwmT/O0td1RqzKjttSBaPjbr
dqwNe9BrOyB08fw2+Ch5oonZYXfGUrt6mkYXH5fQot9HvASrzAKHO596FdJA6DmL
ywdWe1Oggk7zFSXO1Xv+3vPrJtaYxYo3eRIp7w80PMkiOv6M0XK8ubcTouODeJbf
suDqcLnLDxwsvwIDAQABo1cwVTAOBgNVHQ8BAf8EBAMCBaAwFgYDVR01AQH/BAww
CgYIKwYBBQUAwIwDAYDVR0TAQH/BAIwADAdBgNVHQ4EFgQULGNaBphBumaKbDRK
CAi0mH8B3mowDQYJKoZIhvcNAQEFBQADgYEAuKxhKxaCLGcqDuweKtO/AEw9ZePH
wr0XqsaIK2HZboqruebXEGsojk4Ks0WzwgrEynuHJwTn760xe39rSqXWIOrOBaX
wFpWHVjTFMKk+tSDG1lssLHyYWWdFFU4AnejRGORJYNaRHgVTkjHphc5jEhHm0BX
AEaHzTpEXAMPLE=
-----END CERTIFICATE-----
    </CertificateBody>
  </ServerCertificate>
</GetServerCertificateResult>
<ResponseMetadata>
  <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</GetServerCertificateResponse>
```

GetSSHPublicKey

Retrieves the specified SSH public key, including metadata about the key.

The SSH public key retrieved by this action is used only for authenticating the associated IAM user to an AWS CodeCommit repository. For more information about using SSH keys to authenticate to an AWS CodeCommit repository, see [Set up AWS CodeCommit for SSH Connections](#) in the *AWS CodeCommit User Guide*.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Encoding

Specifies the public key encoding format to use in the response. To retrieve the public key in ssh-rsa format, use `SSH`. To retrieve the public key in PEM format, use `PEM`.

Type: String

Valid Values: `SSH` | `PEM`

Required: Yes

SSHPublicKeyId

The unique identifier for the SSH public key.

Type: String

Length constraints: Minimum length of 20. Maximum length of 128.

Pattern: `[\w] +`

Required: Yes

UserName

The name of the IAM user associated with the SSH public key.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\w+=, .@-] +`

Required: Yes

Response Elements

The following element is returned.

SSHPublicKey

Information about the SSH public key.

Type: [SSHPublicKey \(p. 294\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

UnrecognizedPublicKeyEncoding

The request was rejected because the public key encoding format is unsupported or unrecognized.

HTTP Status Code: 400

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=GetSSHPublicKey
&Encoding=PEM
&SSHPublicKeyId=APKAEIVFHP46CEEXAMPLE
&UserName=Jane
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<GetSSHPublicKeyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <GetSSHPublicKeyResult>
    <SSHPublicKey>
      <UploadDate>2015-06-05T20:56:46Z</UploadDate>
      <Fingerprint>7a:1d:ea:9e:b0:80:ac:f8:ec:d8:dc:e6:a7:2c:fc:51</Fingerprint>

      <UserName>Jane</UserName>
      <SSHPublicKeyId>APKAEIVFHP46CEEXAMPLE</SSHPublicKeyId>
      <Status>Active</Status>
      <SSHPublicKeyBody>
        -----BEGIN PUBLIC KEY-----
        MIIBIjANBgkqhkiG9w0BAQEAAQCAQ8AMIIBCgKCAQEAsu+Wp09hhmqGTctHI1BE
        SJ/pq4GtAt9JjpIsDnjeB+mLbwnVJLFaaYzzoZuPOVhUc7yHMWjBLmfSEgJKfAH3
        n8m8R9D3UFoRC0rtKR2jJwAwFO3Tp9wgnqzvPtLMnG7uBEuD/nHStanrd6bbBv83
        kDSy5jiuc4yEwtTAEtyp8C8BxFTxHuCQ/sX4IbjtJ8M1IKZ3hjcJO5u6ooWCxZzQ
        hXXlPDniK/RZnO+YOajR5umaAv23HAB7qx5H3A6WpyUyzXy0eTo9eAmUrET+JDXZ
        vqHufiDz0/MOCfb+KV1OJOS2AxNtRuIFAlcTq7NF+upTl0V+gK1YJhCvjsuRkIJ/
        cwIDAQAB
        -----END PUBLIC KEY-----
    </SSHPublicKeyBody>
  </SSHPublicKey>
</GetSSHPublicKeyResult>
<ResponseMetadata>
  <RequestId>4817ee13-f36d-11e4-97db-33c4eEXAMPLE</RequestId>
</ResponseMetadata>
```

```
</GetSSHPublicKeyResponse>
```

GetUser

Retrieves information about the specified user, including the user's creation date, path, unique ID, and ARN.

If you do not specify a user name, IAM determines the user name implicitly based on the AWS access key ID used to sign the request.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

UserName

The name of the user to get information about.

This parameter is optional. If it is not included, it defaults to the user making the request.

Type: String

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

Pattern: [\w+= , .@-] +

Required: No

Response Elements

The following element is returned.

User

Information about the user.

Type: [User \(p. 296\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action= GetUser
&UserName=Bob
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
< GetUserResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  < GetUserResult>
    < User>
      < UserId>AIDACKCEVSQ6C2EXAMPLE</UserId>
      < Path>/division_abc/subdivision_xyz</Path>
      < UserName>Bob</UserName>
      < Arn>arn:aws:iam::123456789012:user/division_abc/subdivision_xyz/Bob</Arn>

      < CreateDate>2013-10-02T17:01:44Z</CreateDate>
      < PasswordLastUsed>2014-10-10T14:37:51Z</PasswordLastUsed>
    </User>
  </ GetUserResult>
  < ResponseMetadata>
    < RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ ResponseMetadata>
</ GetUserResponse>
```

GetUserPolicy

Retrieves the specified inline policy document that is embedded in the specified user.

A user can also have managed policies attached to it. To retrieve a managed policy document that is attached to a user, use [GetPolicy \(p. 130\)](#) to determine the policy's default version, then use [GetPolicyVersion \(p. 132\)](#) to retrieve the policy document.

For more information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

PolicyName

The name of the policy document to get.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

UserName

The name of the user who the policy is associated with.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

Response Elements

The following elements are returned.

PolicyDocument

The policy document.

Type: String

PolicyName

The name of the policy.

Type: String

UserName

The user the policy is associated with.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=GetUserPolicy
&UserName=Bob
&PolicyName=AllAccessPolicy
&AUTHPARAMS
```

Sample Response

```
< GetUserPolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
< GetUserPolicyResult>
< UserName>Bob</UserName>
< PolicyName>AllAccessPolicy</PolicyName>
< PolicyDocument>
{ "Version": "2012-10-17", "Statement": [ { "Effect": "Allow", "Action": "*", "Re
source": "*" } ] }
</PolicyDocument>
</ GetUserPolicyResult>
< ResponseMetadata>
< RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ ResponseMetadata>
</ GetUserPolicyResponse>
```

ListAccessKeys

Returns information about the access key IDs associated with the specified user. If there are none, the action returns an empty list.

Although each user is limited to a small number of keys, you can still paginate the results using the `MaxItems` and `Marker` parameters.

If the `UserName` field is not specified, the `UserName` is determined implicitly based on the AWS access key ID used to sign the request. Because this action works for access keys under the AWS account, you can use this action to manage root credentials even if the AWS account has no associated users.

Note

To ensure the security of your AWS account, the secret access key is accessible only during key and user creation.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF]+

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

UserName

The name of the user.

Type: String

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

Pattern: [\w+=, .@-]+

Required: No

Response Elements

The following elements are returned.

AccessKeyMetadata

A list of access key metadata.

Type: [AccessKeyMetadata \(p. 273\)](#) list

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListAccessKeys
&UserName=Bob
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListAccessKeysResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<ListAccessKeysResult>
<UserName>Bob</UserName>
<AccessKeyMetadata>
<member>
<UserName>Bob</UserName>
```

```
<AccessKeyId>AKIAIOSFODNN7EXAMPLE</AccessKeyId>
<Status>Active</Status>
</member>
<member>
  <UserName>Bob</UserName>
  <AccessKeyId>AKIAI44QH8DHBEXAMPLE</AccessKeyId>
  <Status>Inactive</Status>
</member>
</AccessKeyMetadata>
<IsTruncated>false</IsTruncated>
</ListAccessKeysResult>
<ResponseMetadata>
  <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</ListAccessKeysResponse>
```

ListAccountAliases

Lists the account aliases associated with the account. For information about using an AWS account alias, see [Using an Alias for Your AWS Account ID](#) in the *Using IAM* guide.

You can paginate the results using the `MaxItems` and `Marker` parameters.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF]+

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

Response Elements

The following elements are returned.

AccountAliases

A list of aliases associated with the account.

Type: String list

Length constraints: Minimum length of 3. Maximum length of 63.

Pattern: ^[a-zA-Z0-9](([a-zA-Z0-9] | -(?!-)) * [a-zA-Z0-9])? \$

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListAccountAliases
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListAccountAliasesResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<ListAccountAliasesResult>
  <IsTruncated>false</IsTruncated>
  <AccountAliases>
    <member>example-corporation</member>
  </AccountAliases>
</ListAccountAliasesResult>
<ResponseMetadata>
  <RequestId>c5a076e9-f1b0-11df-8fbe-45274EXAMPLE</RequestId>
</ResponseMetadata>
</ListAccountAliasesResponse>
```

ListAttachedGroupPolicies

Lists all managed policies that are attached to the specified group.

A group can also have inline policies embedded with it. To list the inline policies for a group, use the [ListGroupPolicies \(p. 166\)](#) API. For information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

You can paginate the results using the `MaxItems` and `Marker` parameters. You can use the `PathPrefix` parameter to limit the list of policies to only those matching the specified path prefix. If there are no policies attached to the specified group (or none that match the specified path prefix), the action returns an empty list.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

GroupName

The name (friendly name, not ARN) of the group to list attached policies for.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF] +

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

PathPrefix

The path prefix for filtering the results. This parameter is optional. If it is not included, it defaults to a slash (/), listing all policies.

Type: String

Pattern: ((/ [A-Za-z0-9\.,\+@\=_-] +) *) /

Required: No

Response Elements

The following elements are returned.

AttachedPolicies

A list of the attached policies.

Type: [AttachedPolicy \(p. 273\)](#) list

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListAttachedGroupPolicies
&GroupName=ReadOnlyUsers
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListAttachedGroupPoliciesResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ListAttachedGroupPoliciesResult>
    <AttachedPolicies>
      <member>
        <PolicyName>ReadOnlyAccess</PolicyName>
        <PolicyArn>arn:aws:iam::aws:policy/ReadOnlyAccess</PolicyArn>
      </member>
    </AttachedPolicies>
    <IsTruncated>false</IsTruncated>
  </ListAttachedGroupPoliciesResult>
  <ResponseMetadata>
    <RequestId>710f2d3f-3df1-11e4-9d0d-6f969EXAMPLE</RequestId>
  </ResponseMetadata>
</ListAttachedGroupPoliciesResponse>
```

ListAttachedRolePolicies

Lists all managed policies that are attached to the specified role.

A role can also have inline policies embedded with it. To list the inline policies for a role, use the [ListRolePolicies \(p. 193\)](#) API. For information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

You can paginate the results using the `MaxItems` and `Marker` parameters. You can use the `PathPrefix` parameter to limit the list of policies to only those matching the specified path prefix. If there are no policies attached to the specified role (or none that match the specified path prefix), the action returns an empty list.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF]+

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

PathPrefix

The path prefix for filtering the results. This parameter is optional. If it is not included, it defaults to a slash (/), listing all policies.

Type: String

Pattern: ((/[A-Za-z0-9\.,\+@=_-]+)*) /

Required: No

RoleName

The name (friendly name, not ARN) of the role to list attached policies for.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-]+

Required: Yes

Response Elements

The following elements are returned.

AttachedPolicies

A list of the attached policies.

Type: [AttachedPolicy \(p. 273\)](#) list

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListAttachedRolePolicies
&RoleName=ReadOnlyRole
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListAttachedRolePoliciesResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ListAttachedRolePoliciesResult>
    <AttachedPolicies>
      <member>
        <PolicyName>ReadOnlyAccess</PolicyName>
        <PolicyArn>arn:aws:iam::aws:policy/ReadOnlyAccess</PolicyArn>
      </member>
    </AttachedPolicies>
    <IsTruncated>false</IsTruncated>
  </ListAttachedRolePoliciesResult>
  <ResponseMetadata>
    <RequestId>9a3b490d-3ea5-11e4-9d0d-6f969EXAMPLE</RequestId>
  </ResponseMetadata>
</ListAttachedRolePoliciesResponse>
```

ListAttachedUserPolicies

Lists all managed policies that are attached to the specified user.

A user can also have inline policies embedded with it. To list the inline policies for a user, use the [ListUserPolicies \(p. 210\)](#) API. For information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

You can paginate the results using the `MaxItems` and `Marker` parameters. You can use the `PathPrefix` parameter to limit the list of policies to only those matching the specified path prefix. If there are no policies attached to the specified group (or none that match the specified path prefix), the action returns an empty list.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF]+

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

PathPrefix

The path prefix for filtering the results. This parameter is optional. If it is not included, it defaults to a slash (/), listing all policies.

Type: String

Pattern: ((/[A-Za-z0-9\.,\+@=_-]+)*) /

Required: No

UserName

The name (friendly name, not ARN) of the user to list attached policies for.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-]+

Required: Yes

Response Elements

The following elements are returned.

AttachedPolicies

A list of the attached policies.

Type: [AttachedPolicy \(p. 273\)](#) list

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListAttachedUserPolicies
&UserName=Alice
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListAttachedUserPoliciesResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ListAttachedUserPoliciesResult>
    <AttachedPolicies>
      <member>
        <PolicyName>AdministratorAccess</PolicyName>
        <PolicyArn>arn:aws:iam::aws:policy/AdministratorAccess</PolicyArn>
      </member>
    </AttachedPolicies>
    <IsTruncated>false</IsTruncated>
  </ListAttachedUserPoliciesResult>
  <ResponseMetadata>
    <RequestId>75980e78-3ea6-11e4-9d0d-6f969EXAMPLE</RequestId>
  </ResponseMetadata>
</ListAttachedUserPoliciesResponse>
```

ListEntitiesForPolicy

Lists all users, groups, and roles that the specified managed policy is attached to.

You can use the optional `EntityFilter` parameter to limit the results to a particular type of entity (users, groups, or roles). For example, to list only the roles that are attached to the specified policy, set `EntityFilter` to `Role`.

You can paginate the results using the `MaxItems` and `Marker` parameters.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

EntityFilter

The entity type to use for filtering the results.

For example, when `EntityFilter` is `Role`, only the roles that are attached to the specified policy are returned. This parameter is optional. If it is not included, all attached entities (users, groups, and roles) are returned.

Type: String

Valid Values: `User` | `Role` | `Group` | `LocalManagedPolicy` | `AWSManagedPolicy`

Required: No

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF]+

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

PathPrefix

The path prefix for filtering the results. This parameter is optional. If it is not included, it defaults to a slash (/), listing all entities.

Type: String

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

Pattern: (\u002F) | (\u002F [\u0021-\u007F]+ \u002F)

Required: No

PolicyArn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the [AWS General Reference](#).

Type: String

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

Required: Yes

Response Elements

The following elements are returned.

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

PolicyGroups

A list of groups that the policy is attached to.

Type: [PolicyGroup \(p. 285\)](#) list

PolicyRoles

A list of roles that the policy is attached to.

Type: [PolicyRole \(p. 286\)](#) list

PolicyUsers

A list of users that the policy is attached to.

Type: [PolicyUser \(p. 286\)](#) list

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListEntitiesForPolicy
&PolicyArn=arn:aws:iam::123456789012:policy/EC2-Devs
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListEntitiesForPolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ListEntitiesForPolicyResult>
    <PolicyRoles>
      <member>
        <RoleName>DevRole</RoleName>
      </member>
    </PolicyRoles>
    <PolicyGroups>
      <member>
        <GroupName>Dev</GroupName>
      </member>
    </PolicyGroups>
    <IsTruncated>false</IsTruncated>
    <PolicyUsers>
      <member>
        <UserName>Alice</UserName>
      </member>
      <member>
        <UserName>Bob</UserName>
      </member>
    </PolicyUsers>
  </ListEntitiesForPolicyResult>
  <ResponseMetadata>
    <RequestId>eb358e22-9d1f-11e4-93eb-190ecEXAMPLE</RequestId>
  </ResponseMetadata>
</ListEntitiesForPolicyResponse>
```

ListGroupPolicies

Lists the names of the inline policies that are embedded in the specified group.

A group can also have managed policies attached to it. To list the managed policies that are attached to a group, use [ListAttachedGroupPolicies \(p. 154\)](#). For more information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

You can paginate the results using the `MaxItems` and `Marker` parameters. If there are no inline policies embedded with the specified group, the action returns an empty list.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

GroupName

The name of the group to list policies for.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF] +

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

Response Elements

The following elements are returned.

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

PolicyNames

A list of policy names.

Type: String list

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

Pattern: [\w+=, .@-]+

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListGroupPolicies
&GroupName=Admins
&AUTHPARAMS
```

Sample Response

```
<ListGroupPoliciesResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<ListGroupPoliciesResult>
    <PolicyNames>
        <member>AdminRoot</member>
        <member>KeyPolicy</member>
    </PolicyNames>
    <IsTruncated>false</IsTruncated>
```

```
</ListGroupPoliciesResult>
<ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</ListGroupPoliciesResponse>
```

ListGroups

Lists the groups that have the specified path prefix.

You can paginate the results using the `MaxItems` and `Marker` parameters.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF]+

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

PathPrefix

The path prefix for filtering the results. For example, the prefix `/division_abc/subdivision_xyz/` gets all groups whose path starts with `/division_abc/subdivision_xyz/`.

This parameter is optional. If it is not included, it defaults to a slash (/), listing all groups.

Type: String

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

Pattern: \u002F[\u0021-\u007F]*

Required: No

Response Elements

The following elements are returned.

Groups

A list of groups.

Type: [Group \(p. 274\)](#) list

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListGroups
&PathPrefix=/division_abc/subdivision_xyz/
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListGroupsResponse>
<ListGroupsResult>
<Groups>
<member>
<Path>/division_abc/subdivision_xyz/</Path>
<GroupName>Admins</GroupName>
<GroupId>AGPACKCEVVSQ6C2EXAMPLE</GroupId>
<Arn>arn:aws:iam::123456789012:group/Admins</Arn>
</member>
<member>
<Path>/division_abc/subdivision_xyz/product_1234/engineering/
</Path>
<GroupName>Test</GroupName>
<GroupId>AGP2MAB8DPLSRHEXAMPLE</GroupId>
<Arn>arn:aws:iam::123456789012:group
/division_abc/subdivision_xyz/product_1234/engineering/Test</Arn>
```

```
</member>
<member>
  <Path>/division_abc/subdivision_xyz/product_1234</Path>
  <GroupName>Managers</GroupName>
  <GroupId>AGPIODR4TAW7CSEXAMPLE</GroupId>
  <Arn>arn:aws:iam::123456789012
    :group/division_abc/subdivision_xyz/product_1234/Managers</Arn>
</member>
</Groups>
<IsTruncated>false</IsTruncated>
</ListGroupsResult>
<ResponseMetadata>
  <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</ListGroupsResponse>
```

ListGroupsForUser

Lists the groups the specified user belongs to.

You can paginate the results using the `MaxItems` and `Marker` parameters.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF] +

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

UserName

The name of the user to list groups for.

Type: String

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

Pattern: [\w+=, .@-] +

Required: Yes

Response Elements

The following elements are returned.

Groups

A list of groups.

Type: [Group \(p. 274\)](#) list

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListGroupsForUser
&UserName=Bob
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListGroupsForUserResponse>
  <ListGroupsForUserResult>
    <Groups>
      <member>
        <Path>/</Path>
        <GroupName>Admins</GroupName>
        <GroupId>AGPACKCEVVSQ6C2EXAMPLE</GroupId>
        <Arn>arn:aws:iam::123456789012:group/Admins</Arn>
      </member>
    </Groups>
    <IsTruncated>false</IsTruncated>
  </ListGroupsForUserResult>
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
```

```
</ResponseMetadata>
</ListGroupsForUserResponse>
```

ListInstanceProfiles

Lists the instance profiles that have the specified path prefix. If there are none, the action returns an empty list. For more information about instance profiles, go to [About Instance Profiles](#).

You can paginate the results using the `MaxItems` and `Marker` parameters.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF]+

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

PathPrefix

The path prefix for filtering the results. For example, the prefix `/application_abc/component_xyz/` gets all instance profiles whose path starts with `/application_abc/component_xyz/`.

This parameter is optional. If it is not included, it defaults to a slash (/), listing all instance profiles.

Type: String

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

Pattern: \u002F[\u0021-\u007F]*

Required: No

Response Elements

The following elements are returned.

InstanceProfiles

A list of instance profiles.

Type: [InstanceProfile \(p. 277\)](#) list

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListInstanceProfiles
&MaxItems=100
&PathPrefix=/application_abc/
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListInstanceProfilesResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<ListInstanceProfilesResult>
  <IsTruncated>false</IsTruncated>
  <InstanceProfiles>
    <member>
      <Id>AIPACIFN4OZXG7EXAMPLE</Id>
      <Roles/>
      <InstanceProfileName>Database</InstanceProfileName>
      <Path>/application_abc/component_xyz/</Path>
      <Arn>arn:aws:iam::123456789012:instance-profile/application_abc/component_xyz/Database</Arn>
      <CreateDate>2012-05-09T16:27:03Z</CreateDate>
    </member>
    <member>
      <Id>AIPACZLSXM2EYYEXAMPLE</Id>
```

```
<Roles/>
<InstanceProfileName>Webserver</InstanceProfileName>
<Path>/application_abc/component_xyz/</Path>
<Arn>arn:aws:iam::123456789012:instance-profile/application_abc/compon
ent_xyz/Webserver</Arn>
<CreateDate>2012-05-09T16:27:11Z</CreateDate>
</member>
</InstanceProfiles>
</ListInstanceProfilesResult>
<ResponseMetadata>
<RequestId>fd74fa8d-99f3-11e1-a4c3-27EXAMPLE804</RequestId>
</ResponseMetadata>
</ListInstanceProfilesResponse>
```

ListInstanceProfilesForRole

Lists the instance profiles that have the specified associated role. If there are none, the action returns an empty list. For more information about instance profiles, go to [About Instance Profiles](#).

You can paginate the results using the `MaxItems` and `Marker` parameters.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF]+

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

RoleName

The name of the role to list instance profiles for.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-]+

Required: Yes

Response Elements

The following elements are returned.

InstanceProfiles

A list of instance profiles.

Type: [InstanceProfile \(p. 277\)](#) list

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListInstanceProfilesForRole
&MaxItems=100
&RoleName=S3Access
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListInstanceProfilesForRoleResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<ListInstanceProfilesForRoleResult>
  <IsTruncated>false</IsTruncated>
  <InstanceProfiles>
    <member>
      <Id>AIPACZLS2EYYXMEXAMPLE</Id>
      <Roles>
        <member>
          <Path>/application_abc/component_xyz/</Path>
          <Arn>arn:aws:iam::123456789012:role/application_abc/component_xyz/S3Access</Arn>
          <RoleName>S3Access</RoleName>
        </member>
      </Roles>
    </member>
  </InstanceProfiles>
</ListInstanceProfilesForRoleResult>
</ListInstanceProfilesForRoleResponse>
```

```
<AssumeRolePolicyDocument>
  { "Version": "2012-10-17", "Statement": [ { "Effect": "Allow",
  "Principal": { "Service": [ "ec2.amazonaws.com" ] }, "Action": [ "sts:AssumeR
ole" ] } ] }
</AssumeRolePolicyDocument>
<CreateDate>2012-05-09T15:45:35Z</CreateDate>
<RoleId>AROACVSVTSZYK3EXAMPLE</RoleId>
</member>
</Roles>
<InstanceProfileName>Webserver</InstanceProfileName>
<Path>/application_abc/component_xyz/</Path>
<Arn>arn:aws:iam::123456789012:instance-profile/application_abc/compon
ent_xyz/Webserver</Arn>
<CreateDate>2012-05-09T16:27:11Z</CreateDate>
</member>
</InstanceProfiles>
</ListInstanceProfilesForRoleResult>
<ResponseMetadata>
  <RequestId>6a8c3992-99f4-11e1-a4c3-27EXAMPLE804</RequestId>
</ResponseMetadata>
</ListInstanceProfilesForRoleResponse>
```

ListMFADevices

Lists the MFA devices. If the request includes the user name, then this action lists all the MFA devices associated with the specified user name. If you do not specify a user name, IAM determines the user name implicitly based on the AWS access key ID signing the request.

You can paginate the results using the `MaxItems` and `Marker` parameters.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF] +

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

UserName

The name of the user whose MFA devices you want to list.

Type: String

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

Pattern: [\w+=, .@-] +

Required: No

Response Elements

The following elements are returned.

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

MFADevices

A list of MFA devices.

Type: [MFADevice \(p. 281\)](#) list

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListMFADevices
&UserName=Bob
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListMFADevicesResponse>
  <ListMFADevicesResult>
    <MFADevices>
      <member>
        <UserName>Bob</UserName>
        <SerialNumber>R1234</SerialNumber>
      </member>
    </MFADevices>
    <IsTruncated>false</IsTruncated>
  </ListMFADevicesResult>
  <ResponseMetadata>
```

```
<RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</ListMFADevicesResponse>
```

ListOpenIDConnectProviders

Lists information about the OpenID Connect providers in the AWS account.

Response Elements

The following element is returned.

OpenIDConnectProviderList

The list of IAM OpenID Connect providers in the AWS account.

Type: [OpenIDConnectProviderListEntry \(p. 281\)](#) list

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListOpenIDConnectProviders
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListOpenIDConnectProvidersResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ListOpenIDConnectProvidersResult>
    <OpenIDConnectProviderList>
      <member>
        <Arn>arn:aws:iam::123456789012:oidc-provider/server.example.com</Arn>
      </member>
      <member>
        <Arn>arn:aws:iam::123456789012:oidc-provider/server.example.org</Arn>
      </member>
    </OpenIDConnectProviderList>
  </ListOpenIDConnectProvidersResult>
  <ResponseMetadata>
```

```
<RequestId>de2c0228-4f63-11e4-aefa-bfd6aEXAMPLE</RequestId>
</ResponseMetadata>
</ListOpenIDConnectProvidersResponse>
```

ListPolicies

Lists all the managed policies that are available to your account, including your own customer managed policies and all AWS managed policies.

You can filter the list of policies that is returned using the optional `OnlyAttached`, `Scope`, and `PathPrefix` parameters. For example, to list only the customer managed policies in your AWS account, set `Scope` to `Local`. To list only AWS managed policies, set `Scope` to `AWS`.

You can paginate the results using the `MaxItems` and `Marker` parameters.

For more information about managed policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF]+

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

OnlyAttached

A flag to filter the results to only the attached policies.

When `onlyAttached` is `true`, the returned list contains only the policies that are attached to a user, group, or role. When `OnlyAttached` is `false`, or when the parameter is not included, all policies are returned.

Type: Boolean

Required: No

PathPrefix

The path prefix for filtering the results. This parameter is optional. If it is not included, it defaults to a slash (/), listing all policies.

Type: String

Pattern: ((/ [A-Za-z0-9\.,\+@\=_-] +) *) /

Required: No

Scope

The scope to use for filtering the results.

To list only AWS managed policies, set Scope to AWS. To list only the customer managed policies in your AWS account, set Scope to Local.

This parameter is optional. If it is not included, or if it is set to All, all policies are returned.

Type: String

Valid Values: All | AWS | Local

Required: No

Response Elements

The following elements are returned.

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the Marker request parameter to retrieve more items.

Type: Boolean

Marker

When IsTruncated is true, this element is present and contains the value to use for the Marker parameter in a subsequent pagination request.

Type: String

Policies

A list of policies.

Type: [Policy \(p. 283\)](#) list

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListPolicies
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListPoliciesResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ListPoliciesResult>
    <IsTruncated>true</IsTruncated>
    <Marker>EXAMPLEkakv9BCuUNFDtxWSyfzetYwEx2ADc8dnzf vERF5S6YM
vXKx41t6gC1/eeaCX3Jo94/bKqezEAg8TEVS
99EKFLxm3jtbpl25FDWEXAMPLE
</Marker>
    <Policies>
      <member>
        <PolicyName>ExamplePolicy</PolicyName>
        <DefaultVersionId>v1</DefaultVersionId>
        <PolicyId>AGPACKCEVSQ6C2EXAMPLE</PolicyId>
        <Path>/</Path>
        <Arn>arn:aws:iam::123456789012:policy/ExamplePolicy</Arn>
        <AttachmentCount>2</AttachmentCount>
        <CreateDate>2014-09-15T17:36:14Z</CreateDate>
        <UpdateDate>2014-09-15T20:31:47Z</UpdateDate>
      </member>
      <member>
        <PolicyName>PowerUserAccess</PolicyName>
        <DefaultVersionId>v1</DefaultVersionId>
        <PolicyId>AGPACKCEVSQ6C2EXAMPLE</PolicyId>
        <Path>/</Path>
        <Arn>arn:aws:iam::aws:policy/PowerUserAccess</Arn>
        <AttachmentCount>0</AttachmentCount>
        <CreateDate>2014-08-21T20:25:01Z</CreateDate>
        <UpdateDate>2014-08-21T20:25:01Z</UpdateDate>
      </member>
      <member>
        <PolicyName>AdministratorAccess</PolicyName>
        <DefaultVersionId>v1</DefaultVersionId>
        <PolicyId>AGPACKCEVSQ6C2EXAMPLE</PolicyId>
        <Path>/</Path>
        <Arn>arn:aws:iam::aws:policy/AdministratorAccess</Arn>
        <AttachmentCount>1</AttachmentCount>
        <CreateDate>2014-08-21T20:11:25Z</CreateDate>
        <UpdateDate>2014-08-21T20:11:25Z</UpdateDate>
      </member>
      <member>
        <PolicyName>ReadOnlyAccess</PolicyName>
        <DefaultVersionId>v1</DefaultVersionId>
        <PolicyId>AGPACKCEVSQ6C2EXAMPLE</PolicyId>
        <Path>/</Path>
        <Arn>arn:aws:iam::aws:policy/ReadOnlyAccess</Arn>
        <AttachmentCount>6</AttachmentCount>
        <CreateDate>2014-08-21T20:31:44Z</CreateDate>
        <UpdateDate>2014-08-21T20:31:44Z</UpdateDate>
      </member>
    </Policies>
```

```
</ListPoliciesResult>
<ResponseMetadata>
    <RequestId>6207e832-3eb7-11e4-9d0d-6f969EXAMPLE</RequestId>
</ResponseMetadata>
</ListPoliciesResponse>
```

ListPolicyVersions

Lists information about the versions of the specified managed policy, including the version that is set as the policy's default version.

For more information about managed policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF]+

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

PolicyArn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the *AWS General Reference*.

Type: String

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

Required: Yes

Response Elements

The following elements are returned.

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

Versions

A list of policy versions.

For more information about managed policy versions, see [Versioning for Managed Policies](#) in the *Using IAM* guide.

Type: [PolicyVersion \(p. 287\)](#) list

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListPolicyVersions
&PolicyArn=arn:aws:iam::123456789012:policy/S3-read-only-example-bucket
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListPolicyVersionsResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ListPolicyVersionsResult>
    <Versions>
```

```
<member>
<IsDefaultVersion>false</IsDefaultVersion>
<VersionId>v3</VersionId>
<CreateDate>2014-09-17T22:32:43Z</CreateDate>
</member>
<member>
<IsDefaultVersion>true</IsDefaultVersion>
<VersionId>v2</VersionId>
<CreateDate>2014-09-15T20:31:47Z</CreateDate>
</member>
<member>
<IsDefaultVersion>false</IsDefaultVersion>
<VersionId>v1</VersionId>
<CreateDate>2014-09-15T17:36:14Z</CreateDate>
</member>
</Versions>
<IsTruncated>false</IsTruncated>
</ListPolicyVersionsResult>
<ResponseMetadata>
<RequestId>a31d1a86-3eba-11e4-9d0d-6f969EXAMPLE</RequestId>
</ResponseMetadata>
</ListPolicyVersionsResponse>
```

ListRolePolicies

Lists the names of the inline policies that are embedded in the specified role.

A role can also have managed policies attached to it. To list the managed policies that are attached to a role, use [ListAttachedRolePolicies \(p. 157\)](#). For more information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

You can paginate the results using the `MaxItems` and `Marker` parameters. If there are no inline policies embedded with the specified role, the action returns an empty list.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF]+

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

RoleName

The name of the role to list policies for.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-]+

Required: Yes

Response Elements

The following elements are returned.

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

PolicyNames

A list of policy names.

Type: String list

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

Pattern: [\w+=, .@-]+

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListRolePolicies
&RoleName=S3Access
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListRolePoliciesResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<ListRolePoliciesResult>
  <PolicyNames>
    <member>CloudwatchPutMetricPolicy</member>
    <member>S3AccessPolicy</member>
  </PolicyNames>
```

```
<IsTruncated>false</IsTruncated>
</ListRolePoliciesResult>
<ResponseMetadata>
  <RequestId>8c7e1816-99f0-11e1-a4c3-27EXAMPLE804</RequestId>
</ResponseMetadata>
</ListRolePoliciesResponse>
```

ListRoles

Lists the roles that have the specified path prefix. If there are none, the action returns an empty list. For more information about roles, go to [Working with Roles](#).

You can paginate the results using the `MaxItems` and `Marker` parameters.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF]+

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

PathPrefix

The path prefix for filtering the results. For example, the prefix `/application_abc/component_xyz/` gets all roles whose path starts with `/application_abc/component_xyz/`.

This parameter is optional. If it is not included, it defaults to a slash (/), listing all roles.

Type: String

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

Pattern: \u002F[\u0021-\u007F]*

Required: No

Response Elements

The following elements are returned.

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

Roles

A list of roles.

Type: [Role \(p. 288\)](#) list

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListRoles
&MaxItems=100
&PathPrefix=/application_abc/
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListRolesResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<ListRolesResult>
<IsTruncated>false</IsTruncated>
<Roles>
<member>
<Path>/application_abc/component_xyz/</Path>
<Arn>arn:aws:iam::123456789012:role/application_abc/component_xyz/S3Access</Arn>
<RoleName>S3Access</RoleName>
<AssumeRolePolicyDocument>
<![CDATA[{"Version": "2012-10-17", "Statement": [{"Effect": "Allow", "Principal": {"Service": ["ec2.amazonaws.com"]}, "Action": ["sts:AssumeRole"]}]}}</AssumeRolePolicyDocument>
<CreateDate>2012-05-09T15:45:35Z</CreateDate>
<RoleId>AROACVSVTSZYEXAMPLEYK</RoleId>
```

```
</member>
<member>
  <Path>/application_abc/component_xyz/</Path>
  <Arn>arn:aws:iam::123456789012:role/application_abc/component_xyz/SDBAccess</Arn>
  <RoleName>SDBAccess</RoleName>
  <AssumeRolePolicyDocument>
    {"Version": "2012-10-17", "Statement": [{"Effect": "Allow",
      "Principal": {"Service": ["ec2.amazonaws.com"]}, "Action": ["sts:AssumeRole"]}]}
  </AssumeRolePolicyDocument>
  <CreateDate>2012-05-09T15:45:45Z</CreateDate>
  <RoleId>AROAC2ICXG32EXAMPLEWK</RoleId>
</member>
</Roles>
</ListRolesResult>
<ResponseMetadata>
  <RequestId>20f7279f-99ee-11e1-a4c3-27EXAMPLE804</RequestId>
</ResponseMetadata>
</ListRolesResponse>
```

ListSAMLProviders

Lists the SAML providers in the account.

Note

This operation requires [Signature Version 4](#).

Response Elements

The following element is returned.

SAMLProviderList

The list of SAML providers for this account.

Type: [SAMLProviderListEntry \(p. 291\)](#) list

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListSAMLProviders
&MaxItems=100
&PathPrefix=/application_abc/
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListSAMLProvidersResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<ListSAMLProvidersResult>
  <SAMLProviderList>
    <member>
      <Arn>arn:aws:iam::123456789012:instance-profile/application_abc/component_xyz/Database</Arn>
      <ValidUntil>2032-05-09T16:27:11Z</ValidUntil>
      <CreateDate>2012-05-09T16:27:03Z</CreateDate>
```

```
</member>
<member>
  <Arn>arn:aws:iam::123456789012:instance-profile/application_abc/component_xyz/Webserver</Arn>
  <ValidUntil>2015-03-11T13:11:02Z</ValidUntil>
  <CreateDate>2012-05-09T16:27:11Z</CreateDate>
</member>
</SAMLProviderList>
</ListSAMLProvidersResult>
<ResponseMetadata>
  <RequestId>fd74fa8d-99f3-11e1-a4c3-27EXAMPLE804</RequestId>
</ResponseMetadata>
</ListSAMLProvidersResponse>
```

ListServerCertificates

Lists the server certificates that have the specified path prefix. If none exist, the action returns an empty list.

You can paginate the results using the `MaxItems` and `Marker` parameters.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF]+

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

PathPrefix

The path prefix for filtering the results. For example: `/company/servercerts` would get all server certificates for which the path starts with `/company/servercerts`.

This parameter is optional. If it is not included, it defaults to a slash (/), listing all server certificates.

Type: String

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

Pattern: \u002F[\u0021-\u007F]*

Required: No

Response Elements

The following elements are returned.

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

ServerCertificateMetadataList

A list of server certificates.

Type: [ServerCertificateMetadata \(p. 292\)](#) list

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListServerCertificates
&PathPrefix=/company/servercerts
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListServerCertificatesResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<ListServerCertificatesResult>
<IsTruncated>false</IsTruncated>
<ServerCertificateMetadataList>
<member>
<ServerCertificateMetadata>
<ServerCertificateName>ProdServerCert</ServerCertificateName>
<Path>/company/servercerts/</Path>
<Arn>arn:aws:iam::123456789012:server-certificate/company/servercerts/ProdServerCert</Arn>
<UploadDate>2010-05-08T01:02:03.004Z</UploadDate>
<ServerCertificateId>ASCACKCEVVSQ6CEXAMPLE1</ServerCertificateId>
<Expiration>2012-05-08T01:02:03.004Z</Expiration>
</ServerCertificateMetadata>
</member>
<member>
```

```
<ServerCertificateMetadata>
  <ServerCertificateName>BetaServerCert</ServerCertificateName>
  <Path>/company/servercerts/</Path>
  <Arn>arn:aws:iam::123456789012:server-certificate/company/server
certs/BetaServerCert</Arn>
  <UploadDate>2010-05-08T02:03:01.004Z</UploadDate>
  <ServerCertificateId>ASCACKCEVSQ6CEXAMPLE2</ServerCertificateId>
  <Expiration>2012-05-08T02:03:01.004Z</Expiration>
</ServerCertificateMetadata>
</member>
<member>
  <ServerCertificateMetadata>
    <ServerCertificateName>TestServerCert</ServerCertificateName>
    <Path>/company/servercerts/</Path>
    <Arn>arn:aws:iam::123456789012:server-certificate/company/server
certs/TestServerCert</Arn>
    <UploadDate>2010-05-08T03:01:02.004Z</UploadDate>
    <ServerCertificateId>ASCACKCEVSQ6CEXAMPLE3</ServerCertificateId>
    <Expiration>2012-05-08T03:01:02.004Z</Expiration>
  </ServerCertificateMetadata>
</member>
</ServerCertificateMetadataList>
</ListServerCertificatesResult>
<ResponseMetadata>
  <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</ListServerCertificatesResponse>
```

ListSigningCertificates

Returns information about the signing certificates associated with the specified user. If there are none, the action returns an empty list.

Although each user is limited to a small number of signing certificates, you can still paginate the results using the `MaxItems` and `Marker` parameters.

If the `UserName` field is not specified, the user name is determined implicitly based on the AWS access key ID used to sign the request. Because this action works for access keys under the AWS account, you can use this action to manage root credentials even if the AWS account has no associated users.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF]+

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

UserName

The name of the user.

Type: String

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

Pattern: [\w+=, .@-]+

Required: No

Response Elements

The following elements are returned.

Certificates

A list of the user's signing certificate information.

Type: [SigningCertificate \(p. 293\)](#) list

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListSigningCertificates
&UserName=Bob
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListSigningCertificatesResponse>
<ListSigningCertificatesResult>
<UserName>Bob</UserName>
<Certificates>
<member>
<UserName>Bob</UserName>
<CertificateId>TA7SMP42TDN5Z260BPJE7EXAMPLE</CertificateId>
<CertificateBody>
-----BEGIN CERTIFICATE-----
```

```
MIIICdzCCAeCgAwIBAgIGANc+Ha2wMA0GCSqGSIb3DQEBBQUAMFMxCzAJBgNVBAYT
AlVTMRMwEQYDVQQKEwpBbWF6b24uY29tMQwwCgYDVQQLEwNBV1MxITAfBgNVBAMT
GEFXUyBMaW1pdGVkLUFzc3VyYW5jZSBDOQTaeFw0wOTAyMDQxNzE5MjdaFw0xMDAy
MDQxNzE5MjdaMFIxCzAJBgNVBAYTA1VTMRMwEQYDVQQKEwpBbWF6b24uY29tMRcw
FQYDVQQLEw5BV1MtRGV2ZWxvcGVyczEVMBMGA1UEAxMMNTdxND10c3ZwyjRtMIGf
MA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQCpB/vs0wmT/O0td1RqzKjtSBaPjbr
dqwNe9BrOyB08fw2+Ch5oonZYXfGUrT6mkYXH5fQot9HvASrzAKHO596FdJA6DmL
ywdWe1Oggk7zFSXO1Xv+3vPrJtaYxYo3eRIp7w80PMkiOv6M0XK8ubcTou0DeJbf
suDqcLnLDxwsvwIDAQABo1cwVTAOBgNVHQ8BAf8EBAMCBaAwFgYDVR01AQH/BAww
CgYIKwYBBQUHAWIwDAYDVR0TAQH/BAIwADAdBgNVHQ4EFgQULGNaBphBumaKbDRK
CAi0mH8B3mowDQYJKoZIhvcNAQEFBQADgYEAuKxhkXaCLGcqDuweKtO/AEw9ZePH
wr0XqsaIK2HZboqruebXEGsojk4Ks0WzwgrEynuHwTn760xe39rSqXWIOrOBaX
wFpWHVjTFMKk+tSDG1lssLHyYWWdFFU4AnejRGORJYNaRHgVTkjHphc5jEhHm0BX
AEaHzTpEXAMPLE=
-----END CERTIFICATE-----
    </CertificateBody>
    <Status>Active</Status>
    </member>
  </Certificates>
  <IsTruncated>false</IsTruncated>
</ListSigningCertificatesResult>
<ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</ListSigningCertificatesResponse>
```

ListSSHPublicKeys

Returns information about the SSH public keys associated with the specified IAM user. If there are none, the action returns an empty list.

The SSH public keys returned by this action are used only for authenticating the IAM user to an AWS CodeCommit repository. For more information about using SSH keys to authenticate to an AWS CodeCommit repository, see [Set up AWS CodeCommit for SSH Connections](#) in the *AWS CodeCommit User Guide*.

Although each user is limited to a small number of keys, you can still paginate the results using the `MaxItems` and `Marker` parameters.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF] +

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

UserName

The name of the IAM user to list SSH public keys for. If none is specified, the `UserName` field is determined implicitly based on the AWS access key used to sign the request.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-] +

Required: No

Response Elements

The following elements are returned.

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

SSHPublicKeys

A list of SSH public keys.

Type: [SSHPublicKeyMetadata](#) (p. 295) list

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListSSHPublicKeys
&UserName=Jane
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListSSHPublicKeysResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<ListSSHPublicKeysResult>
<IsTruncated>false</IsTruncated>
<SSHPublicKeys>
<member>
<UploadDate>2015-06-05T20:56:46Z</UploadDate>
<UserName>Jane</UserName>
<SSHPublicKeyId>APKAEIVFHP46CEEXAMPLE</SSHPublicKeyId>
<Status>Active</Status>
</member>

```

```
</SSHPublicKeys>
</ListSSHPublicKeysResult>
<ResponseMetadata>
    <RequestId>9f8e2d77-f36c-11e4-97db-33c4eEXAMPLE</RequestId>
</ResponseMetadata>
</ListSSHPublicKeysResponse>
```

ListUserPolicies

Lists the names of the inline policies embedded in the specified user.

A user can also have managed policies attached to it. To list the managed policies that are attached to a user, use [ListAttachedUserPolicies \(p. 160\)](#). For more information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

You can paginate the results using the `MaxItems` and `Marker` parameters. If there are no inline policies embedded with the specified user, the action returns an empty list.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF]+

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

UserName

The name of the user to list policies for.

Type: String

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

Pattern: [\w+=, .@-]+

Required: Yes

Response Elements

The following elements are returned.

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

PolicyNames

A list of policy names.

Type: String list

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

Pattern: [\w+=, .@-]+

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListUserPolicies
&UserName=Bob
&AUTHPARAMS
```

Sample Response

```
<ListUserPoliciesResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<ListUserPoliciesResult>
  <PolicyNames>
    <member>AllAccessPolicy</member>
    <member>KeyPolicy</member>
  </PolicyNames>
  <IsTruncated>false</IsTruncated>
```

```
</ListUserPoliciesResult>
<ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</ListUserPoliciesResponse>
```

ListUsers

Lists the IAM users that have the specified path prefix. If no path prefix is specified, the action returns all users in the AWS account. If there are none, the action returns an empty list.

You can paginate the results using the `MaxItems` and `Marker` parameters.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF]+

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

PathPrefix

The path prefix for filtering the results. For example: `/division_abc/subdivision_xyz/`, which would get all user names whose path starts with `/division_abc/subdivision_xyz/`.

This parameter is optional. If it is not included, it defaults to a slash (/), listing all user names.

Type: String

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

Pattern: \u002F[\u0021-\u007F]*

Required: No

Response Elements

The following elements are returned.

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

Users

A list of users.

Type: [User \(p. 296\)](#) list

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListUsers
&PathPrefix=/division_abc/subdivision_xyz/product_1234/engineering/
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListUsersResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<ListUsersResult>
<Users>
<member>
<UserId>AID2MAB8DPLSRHEXAMPLE</UserId>
<Path>/division_abc/subdivision_xyz/engineering/</Path>
<UserName>Andrew</UserName>
<Arn>arn:aws:iam::123456789012:user/division_abc/subdivision_xyz/en
gineering/Andrew</Arn>
<CreateDate>2012-09-05T19:38:48Z</CreateDate>
<PasswordLastUsed>2014-09-08T21:47:36Z</PasswordLastUsed>
</member>
<member>
<UserId>AIDIODR4TAW7CSEXAMPLE</UserId>
<Path>/division_abc/subdivision_xyz/engineering/</Path>
<UserName>Jackie</UserName>
<Arn>arn:aws:iam::123456789012:user/division_abc/subdivision_xyz/en
```

```
gineering/Jackie</Arn>
    <CreateDate>2014-04-09T15:43:45Z</CreateDate>
    <PasswordLastUsed>2014-09-24T16:18:07Z</PasswordLastUsed>
    </member>
</Users>
<IsTruncated>false</IsTruncated>
</ListUsersResult>
<ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</ListUsersResponse>
```

ListVirtualMFADevices

Lists the virtual MFA devices under the AWS account by assignment status. If you do not specify an assignment status, the action returns a list of all virtual MFA devices. Assignment status can be Assigned, Unassigned, or Any.

You can paginate the results using the `MaxItems` and `Marker` parameters.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

AssignmentStatus

The status (unassigned or assigned) of the devices to list. If you do not specify an `AssignmentStatus`, the action defaults to `Any` which lists both assigned and unassigned virtual MFA devices.

Type: String

Valid Values: `Assigned` | `Unassigned` | `Any`

Required: No

Marker

Use this parameter only when paginating results and only after you have received a response where the results are truncated. Set it to the value of the `Marker` element in the response you just received.

Type: String

Length constraints: Minimum length of 1. Maximum length of 320.

Pattern: [\u0020-\u00FF]+

Required: No

MaxItems

Use this only when paginating results to indicate the maximum number of items you want in the response. If there are additional items beyond the maximum you specify, the `IsTruncated` response element is `true`.

This parameter is optional. If you do not include it, it defaults to 100.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1000.

Required: No

Response Elements

The following elements are returned.

IsTruncated

A flag that indicates whether there are more items to return. If your results were truncated, you can make a subsequent pagination request using the `Marker` request parameter to retrieve more items.

Type: Boolean

Marker

When `IsTruncated` is `true`, this element is present and contains the value to use for the `Marker` parameter in a subsequent pagination request.

Type: String

VirtualMFADevices

The list of virtual MFA devices in the current account that match the `AssignmentStatus` value that was passed in the request.

Type: [VirtualMFADevice \(p. 299\)](#) list

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ListVirtualMFADevices
&AssignmentStatus=Any
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ListVirtualMFADevicesResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<ListVirtualMFADevicesResult>
<IsTruncated>false</IsTruncated>
<VirtualMFADevices>
<member>
<SerialNumber>
arn:aws:iam::123456789012:mfa/MFAdeviceName
</SerialNumber>
</member>
<member>
<SerialNumber>
arn:aws:iam::123456789012:mfa/RootMFADeviceName
</SerialNumber>
<EnableDate>2011-10-20T20:49:03Z</EnableDate>
<User>
<UserId>123456789012</UserId>
<Arn>arn:aws:iam::123456789012:root</Arn>
<CreateDate>2009-10-13T22:00:36Z</CreateDate>
</User>
</member>
</VirtualMFADevices>
</ListVirtualMFADevicesResult>
</ListVirtualMFADevicesResponse>
```

```
</member>
<member>
  <SerialNumber>
    arn:aws:iam:::mfa/ExampleUserMFADeviceName
  </SerialNumber>
  <EnableDate>2011-10-31T20:45:02Z</EnableDate>
  <User>
    <UserId>AIDEXAMPLE4EXAMPLEXYZ</UserId>
    <Path>/</Path>
    <UserName>ExampleUser</UserName>
    <Arn>arn:aws:iam::111122223333:user/ExampleUser</Arn>
    <CreateDate>2011-07-01T17:23:07Z</CreateDate>
  </User>
</member>
</VirtualMFADevices>
</ListVirtualMFADevicesResult>
<ResponseMetadata>
  <RequestId>b61ce1b1-0401-11e1-b2f8-2dEXAMPLEbfc</RequestId>
</ResponseMetadata>
</ListVirtualMFADevicesResponse>
```

PutGroupPolicy

Adds (or updates) an inline policy document that is embedded in the specified group.

A user can also have managed policies attached to it. To attach a managed policy to a group, use [AttachGroupPolicy \(p. 12\)](#). To create a new managed policy, use [CreatePolicy \(p. 33\)](#). For information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

For information about limits on the number of inline policies that you can embed in a group, see [Limitations on IAM Entities](#) in the *Using IAM* guide.

Note

Because policy documents can be large, you should use POST rather than GET when calling `PutGroupPolicy`. For general information about using the Query API with IAM, go to [Making Query Requests](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

GroupName

The name of the group to associate the policy with.

Type: String

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

Pattern: [\w+=, .@-]+

Required: Yes

PolicyDocument

The policy document.

Type: String

Length constraints: Minimum length of 1. Maximum length of 5120.

Pattern: [\u0009\u000A\u000D\u0020-\u00FF]+

Required: Yes

PolicyName

The name of the policy document.

Type: String

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

Pattern: [\w+=, .@-]+

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

MalformedPolicyDocument

The request was rejected because the policy document was malformed. The error message describes the specific error.

HTTP Status Code: 400

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=PutGroupPolicy
&GroupName=Admins
&PolicyName=AdminRoot
&PolicyDocument={"Version": "2012-10-17", "Statement": {"Effect": "Allow", "Action": "*", "Resource": "*"}}
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<PutGroupPolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<ResponseMetadata>
<RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</PutGroupPolicyResponse>
```

PutRolePolicy

Adds (or updates) an inline policy document that is embedded in the specified role.

When you embed an inline policy in a role, the inline policy is used as the role's access (permissions) policy. The role's trust policy is created at the same time as the role, using [CreateRole \(p. 39\)](#). You can update a role's trust policy using [UpdateAssumeRolePolicy \(p. 241\)](#). For more information about roles, go to [Using Roles to Delegate Permissions and Federate Identities](#).

A role can also have a managed policy attached to it. To attach a managed policy to a role, use [AttachRolePolicy \(p. 14\)](#). To create a new managed policy, use [CreatePolicy \(p. 33\)](#). For information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

For information about limits on the number of inline policies that you can embed with a role, see [Limitations on IAM Entities](#) in the *Using IAM* guide.

Note

Because policy documents can be large, you should use POST rather than GET when calling `PutRolePolicy`. For general information about using the Query API with IAM, go to [Making Query Requests](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

PolicyDocument

The policy document.

Type: String

Length constraints: Minimum length of 1. Maximum length of 10240.

Pattern: [\u0009\u000A\u000D\u0020-\u00FF] +

Required: Yes

PolicyName

The name of the policy document.

Type: String

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

Pattern: [\w+=, .@-] +

Required: Yes

RoleName

The name of the role to associate the policy with.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

MalformedPolicyDocument

The request was rejected because the policy document was malformed. The error message describes the specific error.

HTTP Status Code: 400

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=PutRolePolicy
&RoleName=S3Access
&PolicyName=S3AccessPolicy
&PolicyDocument={"Version": "2012-10-17", "Statement": {"Effect": "Allow", "Action": "s3:*", "Resource": "*"}}
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<PutRolePolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</PutRolePolicyResponse>
```


PutUserPolicy

Adds (or updates) an inline policy document that is embedded in the specified user.

A user can also have a managed policy attached to it. To attach a managed policy to a user, use [AttachUserPolicy \(p. 16\)](#). To create a new managed policy, use [CreatePolicy \(p. 33\)](#). For information about policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

For information about limits on the number of inline policies that you can embed in a user, see [Limitations on IAM Entities](#) in the *Using IAM* guide.

Note

Because policy documents can be large, you should use POST rather than GET when calling `PutUserPolicy`. For general information about using the Query API with IAM, go to [Making Query Requests](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

PolicyDocument

The policy document.

Type: String

Length constraints: Minimum length of 1. Maximum length of 2048.

Pattern: [\u0009\u000A\u000D\u0020-\u00FF]+

Required: Yes

PolicyName

The name of the policy document.

Type: String

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

Pattern: [\w+=,.@-]+

Required: Yes

UserName

The name of the user to associate the policy with.

Type: String

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

Pattern: [\w+=,.@-]+

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

MalformedPolicyDocument

The request was rejected because the policy document was malformed. The error message describes the specific error.

HTTP Status Code: 400

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=PutUserPolicy
&UserName=Bob
&PolicyName=AllAccessPolicy
&PolicyDocument={"Version": "2012-10-17", "Statement": {"Effect": "Allow", "Action": "*", "Resource": "*"}}
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<PutUserPolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<ResponseMetadata>
<RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</PutUserPolicyResponse>
```

RemoveClientIDFromOpenIDConnectProvider

Removes the specified client ID (also known as audience) from the list of client IDs registered for the specified IAM OpenID Connect provider.

This action is idempotent; it does not fail or return an error if you try to remove a client ID that was removed previously.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

ClientID

The client ID (also known as audience) to remove from the IAM OpenID Connect provider. For more information about client IDs, see [CreateOpenIDConnectProvider \(p. 30\)](#).

Type: String

Length constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

OpenIDConnectProviderArn

The Amazon Resource Name (ARN) of the IAM OpenID Connect (OIDC) provider to remove the client ID from. You can get a list of OIDC provider ARNs by using the [ListOpenIDConnectProviders \(p. 184\)](#) action.

Type: String

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

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=RemoveClientIDFromOpenIDConnectProvider
&ClientID=my-application-ID
&OpenIDConnectProviderArn=arn:aws:iam::123456789012:oidc-provider/server.ex
ample.com
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<RemoveClientIDFromOpenIDConnectProviderResponse xmlns="https://iam.amazon
aws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>1a5214df-4f67-11e4-aefa-bfd6aEXAMPLE</RequestId>
  </ResponseMetadata>
</RemoveClientIDFromOpenIDConnectProviderResponse>
```

RemoveRoleFromInstanceProfile

Removes the specified role from the specified instance profile.

Important

Make sure you do not have any Amazon EC2 instances running with the role you are about to remove from the instance profile. Removing a role from an instance profile that is associated with a running instance will break any applications running on the instance.

For more information about roles, go to [Working with Roles](#). For more information about instance profiles, go to [About Instance Profiles](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

InstanceProfileName

The name of the instance profile to update.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

RoleName

The name of the role to remove.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+= , .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=RemoveRoleFromInstanceProfile
&InstanceProfileName=Webserver
&RoleName=S3Access
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<RemoveRoleFromInstanceProfileResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<ResponseMetadata>
  <RequestId>29f47818-99f5-11e1-a4c3-27EXAMPLE804</RequestId>
</ResponseMetadata>
</RemoveRoleFromInstanceProfileResponse>
```

RemoveUserFromGroup

Removes the specified user from the specified group.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

GroupName

The name of the group to update.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

UserName

The name of the user to remove.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=RemoveUserFromGroup
&GroupName=Managers
&UserName=Bob
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<RemoveUserFromGroupResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</RemoveUserFromGroupResponse>
```

ResyncMFADevice

Synchronizes the specified MFA device with AWS servers.

For more information about creating and working with virtual MFA devices, go to [Using a Virtual MFA Device](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

AuthenticationCode1

An authentication code emitted by the device.

Type: String

Length constraints: Minimum length of 6. Maximum length of 6.

Pattern: [\d]+

Required: Yes

AuthenticationCode2

A subsequent authentication code emitted by the device.

Type: String

Length constraints: Minimum length of 6. Maximum length of 6.

Pattern: [\d]+

Required: Yes

SerialNumber

Serial number that uniquely identifies the MFA device.

Type: String

Length constraints: Minimum length of 9. Maximum length of 256.

Pattern: [\w+=/ : .@-]+

Required: Yes

UserName

The name of the user whose MFA device you want to resynchronize.

Type: String

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

Pattern: [\w+= , .@-]+

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidAuthenticationCode

The request was rejected because the authentication code was not recognized. The error message describes the specific error.

HTTP Status Code: 403

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=ResyncMFADevice
&UserName=Bob
&SerialNumber=R1234
&AuthenticationCode1=234567
&AuthenticationCode2=987654
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<ResyncMFADeviceResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</ResyncMFADeviceResponse>
```

SetDefaultPolicyVersion

Sets the specified version of the specified policy as the policy's default (operative) version.

This action affects all users, groups, and roles that the policy is attached to. To list the users, groups, and roles that the policy is attached to, use the [ListEntitiesForPolicy \(p. 163\)](#) API.

For information about managed policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

PolicyArn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the *AWS General Reference*.

Type: String

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

Required: Yes

VersionId

The version of the policy to set as the default (operative) version.

For more information about managed policy versions, see [Versioning for Managed Policies](#) in the *Using IAM* guide.

Type: String

Pattern: v[1-9][0-9]*(\.[A-Za-z0-9-]*)?

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=SetDefaultPolicyVersion
&PolicyArn=arn:aws:iam::123456789012:policy/S3-read-only-example-bucket
&VersionId=v3
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<SetDefaultPolicyVersionResponse xmlns="https://iam.amazonaws.com/doc/2010-05-
08/">
  <ResponseMetadata>
    <RequestId>35f241af-3ebc-11e4-9d0d-6f969EXAMPLE</RequestId>
  </ResponseMetadata>
</SetDefaultPolicyVersionResponse>
```

UpdateAccessKey

Changes the status of the specified access key from Active to Inactive, or vice versa. This action can be used to disable a user's key as part of a key rotation work flow.

If the `UserName` field is not specified, the `UserName` is determined implicitly based on the AWS access key ID used to sign the request. Because this action works for access keys under the AWS account, you can use this action to manage root credentials even if the AWS account has no associated users.

For information about rotating keys, see [Managing Keys and Certificates](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

AccessKeyId

The access key ID of the secret access key you want to update.

Type: String

Length constraints: Minimum length of 16. Maximum length of 32.

Pattern: [\w]+

Required: Yes

Status

The status you want to assign to the secret access key. `Active` means the key can be used for API calls to AWS, while `Inactive` means the key cannot be used.

Type: String

Valid Values: `Active` | `Inactive`

Required: Yes

UserName

The name of the user whose key you want to update.

Type: String

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

Pattern: [\w+=, .@-]+

Required: No

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=UpdateAccessKey
&UserName=Bob
&AccessKeyId=AKIAIOSFODNN7EXAMPLE
&Status=Inactive
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<UpdateAccessKeyResponse>
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</UpdateAccessKeyResponse>
```

UpdateAccountPasswordPolicy

Updates the password policy settings for the AWS account.

Note

This action does not support partial updates. No parameters are required, but if you do not specify a parameter, that parameter's value reverts to its default value. See the Request Parameters section for each parameter's default value.

For more information about using a password policy, see [Managing an IAM Password Policy](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

AllowUsersToChangePassword

Allows all IAM users in your account to use the AWS Management Console to change their own passwords. For more information, see [Letting IAM Users Change Their Own Passwords](#) in the *Using IAM* guide.

Default value: false

Type: Boolean

Required: No

HardExpiry

Prevents IAM users from setting a new password after their password has expired.

Default value: false

Type: Boolean

Required: No

MaxPasswordAge

The number of days that an IAM user password is valid. The default value of 0 means IAM user passwords never expire.

Default value: 0

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1095.

Required: No

MinimumPasswordLength

The minimum number of characters allowed in an IAM user password.

Default value: 6

Type: Integer

Valid range: Minimum value of 6. Maximum value of 128.

Required: No

PasswordReusePrevention

Specifies the number of previous passwords that IAM users are prevented from reusing. The default value of 0 means IAM users are not prevented from reusing previous passwords.

Default value: 0

Type: Integer

Valid range: Minimum value of 1. Maximum value of 24.

Required: No

RequireLowercaseCharacters

Specifies whether IAM user passwords must contain at least one lowercase character from the ISO basic Latin alphabet (a to z).

Default value: false

Type: Boolean

Required: No

RequireNumbers

Specifies whether IAM user passwords must contain at least one numeric character (0 to 9).

Default value: false

Type: Boolean

Required: No

RequireSymbols

Specifies whether IAM user passwords must contain at least one of the following non-alphanumeric characters:

! @ # \$ % ^ & * () _ + - = [] { } | '

Default value: false

Type: Boolean

Required: No

RequireUppercaseCharacters

Specifies whether IAM user passwords must contain at least one uppercase character from the ISO basic Latin alphabet (A to Z).

Default value: false

Type: Boolean

Required: No

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

MalformedPolicyDocument

The request was rejected because the policy document was malformed. The error message describes the specific error.

HTTP Status Code: 400

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=UpdateAccountPasswordPolicy
&AllowUsersToChangePassword=true
&HardExpiry=false
&MaxPasswordAge=90
&MinimumPasswordLength=12
&PasswordReusePrevention=12
&RequireLowercaseCharacters=true
&RequireNumbers=true
&RequireSymbols=true
&RequireUppercaseCharacters=true
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<UpdateAccountPasswordPolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</UpdateAccountPasswordPolicyResponse>
```

UpdateAssumeRolePolicy

Updates the policy that grants an entity permission to assume a role. For more information about roles, go to [Using Roles to Delegate Permissions and Federate Identities](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

PolicyDocument

The policy that grants an entity permission to assume the role.

Type: String

Length constraints: Minimum length of 1. Maximum length of 2048.

Pattern: [\u0009\u000A\u000D\u0020-\u00FF] +

Required: Yes

RoleName

The name of the role to update.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

MalformedPolicyDocument

The request was rejected because the policy document was malformed. The error message describes the specific error.

HTTP Status Code: 400

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=UpdateAssumeRolePolicy
&PolicyDocument={"Version":"2012-10-17","Statement":[{"Effect":"Allow",
"Principal":{"Service":["ec2.amazonaws.com"]},"Action":["sts:AssumeRole"]}]}
&RoleName=S3AccessForEC2Instances
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<UpdateAssumeRolePolicyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-
08/">
<ResponseMetadata>
  <RequestId>309c1671-99ed-11e1-a4c3-270EXAMPLE04</RequestId>
</ResponseMetadata>
</UpdateAssumeRolePolicyResponse>
```

UpdateGroup

Updates the name and/or the path of the specified group.

Important

You should understand the implications of changing a group's path or name. For more information, see [Renaming Users and Groups](#) in the *Using IAM* guide.

Note

To change a group name the requester must have appropriate permissions on both the source object and the target object. For example, to change Managers to MGRs, the entity making the request must have permission on Managers and MGRs, or must have permission on all (*). For more information about permissions, see [Permissions and Policies](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

GroupName

Name of the group to update. If you're changing the name of the group, this is the original name.

Type: String

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

Pattern: [\w+= , .@-] +

Required: Yes

NewGroupName

New name for the group. Only include this if changing the group's name.

Type: String

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

Pattern: [\w+= , .@-] +

Required: No

NewPath

New path for the group. Only include this if changing the group's path.

Type: String

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

Pattern: (\u002F) | (\u002F[\u0021-\u007F]+\u002F)

Required: No

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityAlreadyExists

The request was rejected because it attempted to create a resource that already exists.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=UpdateGroup
&GroupName=Test
&NewGroupName=Test_1
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<UpdateGroupResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<UpdateGroupResult>
<Group>
<Path>/division_abc/subdivision_xyz/product_1234/engineering/</Path>
<GroupName>Test_1</GroupName>
<GroupId>AGP2MAB8DPLSRHEXAMPLE</GroupId>
<Arn>arn:aws:iam::123456789012:group/division_abc/subdivision_xyz/
product_1234/engineering/Test_1</Arn>
</Group>
</UpdateGroupResult>
<ResponseMetadata>
<RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</UpdateGroupResponse>
```

UpdateLoginProfile

Changes the password for the specified user.

Users can change their own passwords by calling [ChangePassword \(p. 18\)](#). For more information about modifying passwords, see [Managing Passwords](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

Password

The new password for the specified user.

Type: String

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

Pattern: [\u0009\u000A\u000D\u0020-\u00FF] +

Required: No

PasswordResetRequired

Require the specified user to set a new password on next sign-in.

Type: Boolean

Required: No

UserName

The name of the user whose password you want to update.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityTemporarilyUnmodifiable

The request was rejected because it referenced an entity that is temporarily unmodifiable, such as a user name that was deleted and then recreated. The error indicates that the request is likely to succeed if you try again after waiting several minutes. The error message describes the entity.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

PasswordPolicyViolation

The request was rejected because the provided password did not meet the requirements imposed by the account password policy.

HTTP Status Code: 400

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=UpdateLoginProfile
&UserName=Bob
&Password=^L[p*#Z*8o)K
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<UpdateLoginProfileResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</UpdateLoginProfileResponse>
```

UpdateOpenIDConnectProviderThumbprint

Replaces the existing list of server certificate thumbprints with a new list.

The list that you pass with this action completely replaces the existing list of thumbprints. (The lists are not merged.)

Typically, you need to update a thumbprint only when the identity provider's certificate changes, which occurs rarely. However, if the provider's certificate *does* change, any attempt to assume an IAM role that specifies the OIDC provider as a principal will fail until the certificate thumbprint is updated.

Note

Because trust for the OpenID Connect provider is ultimately derived from the provider's certificate and is validated by the thumbprint, it is a best practice to limit access to the `UpdateOpenIDConnectProviderThumbprint` action to highly-privileged users.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

OpenIDConnectProviderArn

The Amazon Resource Name (ARN) of the IAM OpenID Connect (OIDC) provider to update the thumbprint for. You can get a list of OIDC provider ARNs by using the [ListOpenIDConnectProviders \(p. 184\)](#) action.

Type: String

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

Required: Yes

ThumbprintList.member.N

A list of certificate thumbprints that are associated with the specified IAM OpenID Connect provider. For more information, see [CreateOpenIDConnectProvider \(p. 30\)](#).

Type: String list

Length constraints: Minimum length of 40. Maximum length of 40.

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=UpdateOpenIDConnectProviderThumbprint
&ThumbprintList.list.1=c3768084dfb3d2b68b7897bf5f565da8eEXAMPLE
&OpenIDConnectProviderArn=arn:aws:iam::123456789012:oidc-provider/server.example.com
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<UpdateOpenIDConnectProviderThumbprintResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>29b6031c-4f66-11e4-aefa-bfd6aEXAMPLE</RequestId>
  </ResponseMetadata>
</UpdateOpenIDConnectProviderThumbprintResponse>
```

UpdateSAMLProvider

Updates the metadata document for an existing SAML provider.

Note

This operation requires [Signature Version 4](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

SAMLMetadataDocument

An XML document generated by an identity provider (IdP) that supports SAML 2.0. The document includes the issuer's name, expiration information, and keys that can be used to validate the SAML authentication response (assertions) that are received from the IdP. You must generate the metadata document using the identity management software that is used as your organization's IdP.

Type: String

Length constraints: Minimum length of 1000. Maximum length of 10000000.

Required: Yes

SAMLProviderArn

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

Type: String

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

Required: Yes

Response Elements

The following element is returned.

SAMLProviderArn

The Amazon Resource Name (ARN) of the SAML provider that was updated.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

InvalidInput

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=UpdateSAMLProvider
&Name=arn:aws:iam::123456789012:saml-metadata/MyUniversity
&SAMLProviderDocument=VGhpcyBpcyB3aGVyZSB5b3UgcHV0IHRoZSBTQU1MIHByb3ZpZGVyIG1ldG
FkYXRhIGRvY3VtZW50
LCBCYXNlNjQtZW5jb2RlZCBpbnRvIGEgYmlnIHN0cmluZy4=
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<UpdateSAMLProviderResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<UpdateSAMLProviderResult>
  <SAMLProviderArn>arn:aws:iam::123456789012:saml-metadata/MyUniversity</SAML
ProviderArn>
</UpdateSAMLProviderResult>
<ResponseMetadata>
  <RequestId>29f47818-99f5-11e1-a4c3-27EXAMPLE804</RequestId>
</ResponseMetadata>
</UpdateSAMLProviderResponse>
```

UpdateServerCertificate

Updates the name and/or the path of the specified server certificate.

Important

You should understand the implications of changing a server certificate's path or name. For more information, see [Managing Server Certificates](#) in the *Using IAM* guide.

Note

To change a server certificate name the requester must have appropriate permissions on both the source object and the target object. For example, to change the name from ProductionCert to ProdCert, the entity making the request must have permission on ProductionCert and ProdCert, or must have permission on all (*). For more information about permissions, see [Permissions and Policies](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

NewPath

The new path for the server certificate. Include this only if you are updating the server certificate's path.

Type: String

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

Pattern: (\u002F) | (\u002F[\u0021-\u007F]+\u002F)

Required: No

NewServerCertificateName

The new name for the server certificate. Include this only if you are updating the server certificate's name. The name of the certificate cannot contain any spaces.

Type: String

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

Pattern: [\w+=,.@-]+

Required: No

ServerCertificateName

The name of the server certificate that you want to update.

Type: String

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

Pattern: [\w+=,.@-]+

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityAlreadyExists

The request was rejected because it attempted to create a resource that already exists.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=UpdateServerCertificate
&ServerCertificateName=OldProdServerCertName
&NewServerCertificateName>NewProdServerCertName
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<UpdateServerCertificateResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
<ResponseMetadata>
  <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</UpdateServerCertificateResponse>
```

UpdateSigningCertificate

Changes the status of the specified signing certificate from active to disabled, or vice versa. This action can be used to disable a user's signing certificate as part of a certificate rotation work flow.

If the `UserName` field is not specified, the `UserName` is determined implicitly based on the AWS access key ID used to sign the request. Because this action works for access keys under the AWS account, you can use this action to manage root credentials even if the AWS account has no associated users.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

CertificateId

The ID of the signing certificate you want to update.

Type: String

Length constraints: Minimum length of 24. Maximum length of 128.

Pattern: [\w] +

Required: Yes

Status

The status you want to assign to the certificate. `Active` means the certificate can be used for API calls to AWS, while `Inactive` means the certificate cannot be used.

Type: String

Valid Values: `Active` | `Inactive`

Required: Yes

UserName

The name of the user the signing certificate belongs to.

Type: String

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

Pattern: [\w+=, .@-] +

Required: No

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=UpdateSigningCertificate
&UserName=Bob
&CertificateId=TA7SMP42TDN5Z26OBPJE7EXAMPLE
&Status=Inactive
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<UpdateSigningCertificateResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</UpdateSigningCertificateResponse>
```

UpdateSSHPublicKey

Sets the status of the specified SSH public key to active or inactive. SSH public keys that are inactive cannot be used for authentication. This action can be used to disable a user's SSH public key as part of a key rotation work flow.

The SSH public key affected by this action is used only for authenticating the associated IAM user to an AWS CodeCommit repository. For more information about using SSH keys to authenticate to an AWS CodeCommit repository, see [Set up AWS CodeCommit for SSH Connections](#) in the *AWS CodeCommit User Guide*.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

SSHPublicKeyId

The unique identifier for the SSH public key.

Type: String

Length constraints: Minimum length of 20. Maximum length of 128.

Pattern: [\w] +

Required: Yes

Status

The status to assign to the SSH public key. Active means the key can be used for authentication with an AWS CodeCommit repository. Inactive means the key cannot be used.

Type: String

Valid Values: Active | Inactive

Required: Yes

UserName

The name of the IAM user associated with the SSH public key.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-] +

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=UpdateSSHPublicKey
&SSHPublicKeyId=APKAEIVFHP46CEXAMPLE
&Status=Inactive
&UserName=Jane
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<UpdateSSHPublicKeyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <ResponseMetadata>
    <RequestId>d3d9215c-f36b-11e4-97ab-c53b2EXAMPLE</RequestId>
  </ResponseMetadata>
</UpdateSSHPublicKeyResponse>
```

UpdateUser

Updates the name and/or the path of the specified user.

Important

You should understand the implications of changing a user's path or name. For more information, see [Renaming Users and Groups](#) in the *Using IAM* guide.

Note

To change a user name the requester must have appropriate permissions on both the source object and the target object. For example, to change Bob to Robert, the entity making the request must have permission on Bob and Robert, or must have permission on all (*). For more information about permissions, see [Permissions and Policies](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

NewPath

New path for the user. Include this parameter only if you're changing the user's path.

Type: String

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

Pattern: (\u002F) | (\u002F[\u0021-\u007F]+\u002F)

Required: No

NewUserName

New name for the user. Include this parameter only if you're changing the user's name.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-]+

Required: No

UserName

Name of the user to update. If you're changing the name of the user, this is the original user name.

Type: String

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

Pattern: [\w+=, .@-]+

Required: Yes

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityAlreadyExists

The request was rejected because it attempted to create a resource that already exists.

HTTP Status Code: 409

EntityTemporarilyUnmodifiable

The request was rejected because it referenced an entity that is temporarily unmodifiable, such as a user name that was deleted and then recreated. The error indicates that the request is likely to succeed if you try again after waiting several minutes. The error message describes the entity.

HTTP Status Code: 409

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=UpdateUser
&UserName=Bob
&NewUserName=Robert
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<UpdateUserResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <UpdateUserResult>
    <User>
      <Path>/division_abc/subdivision_xyz/</Path>
      <UserName>Robert</UserName>
      <UserId>AIDACKCEVSQ6C2EXAMPLE</UserId>
      <Arn>arn:aws:123456789012:user/division_abc/subdivision_xyz/Robert
    </Arn>
  </User>
  </UpdateUserResult>
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</UpdateUserResponse>
```


UploadServerCertificate

Uploads a server certificate entity for the AWS account. The server certificate entity includes a public key certificate, a private key, and an optional certificate chain, which should all be PEM-encoded.

For information about the number of server certificates you can upload, see [Limitations on IAM Entities](#) in the *Using IAM* guide.

Note

Because the body of the public key certificate, private key, and the certificate chain can be large, you should use POST rather than GET when calling `UploadServerCertificate`. For information about setting up signatures and authorization through the API, go to [Signing AWS API Requests](#) in the *AWS General Reference*. For general information about using the Query API with IAM, go to [Making Query Requests](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

CertificateBody

The contents of the public key certificate in PEM-encoded format.

Type: String

Length constraints: Minimum length of 1. Maximum length of 16384.

Pattern: [\u0009\u000A\u000D\u0020-\u00FF]+

Required: Yes

CertificateChain

The contents of the certificate chain. This is typically a concatenation of the PEM-encoded public key certificates of the chain.

Type: String

Length constraints: Minimum length of 1. Maximum length of 2097152.

Pattern: [\u0009\u000A\u000D\u0020-\u00FF]+

Required: No

Path

The path for the server certificate. For more information about paths, see [IAM Identifiers](#) in the *Using IAM* guide.

This parameter is optional. If it is not included, it defaults to a slash (/).

Note

If you are uploading a server certificate specifically for use with Amazon CloudFront distributions, you must specify a path using the --path option. The path must begin with /cloudfront and must include a trailing slash (for example, /cloudfront/test/).

Type: String

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

Pattern: (\u002F) | (\u002F[\u0021-\u007F]+\u002F)

Required: No

PrivateKey

The contents of the private key in PEM-encoded format.

Type: String

Length constraints: Minimum length of 1. Maximum length of 16384.

Pattern: [\u0009\u000A\u000D\u0020-\u00FF] +

Required: Yes

ServerCertificateName

The name for the server certificate. Do not include the path in this value. The name of the certificate cannot contain any spaces.

Type: String

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

Pattern: [\w+=, .@-] +

Required: Yes

Response Elements

The following element is returned.

ServerCertificateMetadata

The meta information of the uploaded server certificate without its certificate body, certificate chain, and private key.

Type: [ServerCertificateMetadata \(p. 292\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

EntityAlreadyExists

The request was rejected because it attempted to create a resource that already exists.

HTTP Status Code: 409

KeyPairMismatch

The request was rejected because the public key certificate and the private key do not match.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

MalformedCertificate

The request was rejected because the certificate was malformed or expired. The error message describes the specific error.

HTTP Status Code: 400

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=UploadServerCertificate
&ServerCertificateName=ProdServerCert
&Path=/company/servercerts/
&CertificateBody=
-----BEGIN CERTIFICATE-----
MIICdzCCAeCgAwIBAgIGANC+Ha2wMA0GCSqGSIb3DQEBCUAMFMxCzAJBgNVBAYT
AlVTMRMwEQYDVQQKEwpBbWF6b24uY29tMQwwCgYDVQQLEwNBV1MxITAfBgNVBAMT
GEFXUyBMaWlpdGVkLUFzc3VvYW5jZSBQTAeFw0wOTAyMDQxNzE5MjdaFw0xMDAy
MDQxNzE5MjdaMFIxCzAJBgNVBAYTA1VTMRMwEQYDVQQKEwpBbWF6b24uY29tMRCw
FQYDVQQLEw5BV1MtRGV2ZWxvcGVyczEVMBMGAlUEAxMMNTdxNDl0c3ZwYjRtMIGf
MA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQCpB/vsOwmT/O0td1RqzKjttSBApjb
dqwNe9BrOyB08fw2+Ch5oonZYxfGUrT6mkYXH5fQot9HvASrzAKHO596FdJA6DmL
ywdWe1Oggk7zFSXO1Xv+3vPrJtaYxYo3eRIp7w80PMkiOv6M0XK8ubcTouODEJbf
suDqcLnLDxwsvwIDAQAB01cwVTAOBgNVHQ8BAf8EBAMCBaAwFgYDVR01AQH/BAww
CgYIKwYBBQUHawIwDAYDVR0TAQH/BAIwADAdBgNVHQ4EFgQULGNaBphBumaKbDRK
CAi0mH8B3mowDQYJKoZIhvcNAQEFBQADgYEAuKxhkXaCLGcqDuweKtO/AEw9ZePH
wr0XqsaIK2HZboqruebXEGsojk4Ks0WzwgrEynuHjwTn760xe39rSqXWIQGrOBaX
wFpWHVjTFMKk+tSDG1lssLHyYWWdFFU4AnejRGORJYNaRHgVTKjHphc5jEhHm0BX
AEaHzTpmeEXAMPLE=
-----END CERTIFICATE-----
&PrivateKey=
-----BEGIN DSA PRIVATE KEY-----
MIIBugIBTTKBgQD33xToSXPJ6hr37L3+KNi3/7DgywlBcv1FPPSHiw3ORuO/22mT
8Cy5fT89WwNvZ3BPKWU6OZ38TQv3eWjNc/3U3+oqVNG2poX5nCP0tO1b96HYX2mR
3FTdH6FRKbQEhpDzZ6tRrjTHjMX6sT3JRWkBd2c4bGu+HUH01H7QvrCTeQIVTKMs
TCKCyrLiGhUwUGNJUMU6y6zToGTH184Tz7TPwDGDXuy/Dk5s4jTVr+xibROC/gS
Qrs4Dzz3T1ze61vU8S1KT9UsOB5FUJNTTPCPey+Lo4mmK6b23XdTyCIT8e2fsm2j
jHHC1pIPiTkdLS3j6ZYjf8LY6TENFng+LDY/xwP017TJV0D3J/WXC2J9CEYq9o34
kq6WWn3CgyTuo54nXUgnoCb3xdG8COFrq+oTbIkHTSz3w5o/GGgKK7TDF3U1Jjq
vhNyJQ6kWBrQRRIxp5KYQ4c/Dm5kef+62mH53HpcCELguWVcffuVQpmq3EWL9Zp9
jobTJQ2VHjb5IVxi06HRSd27di3njyrzUuJCyHSDTqwLJmTThpd6OTIUTL3Tc4m2
62TITdw53KWJEXAMPLE=
-----END DSA PRIVATE KEY-----
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<UploadServerCertificateResponse xmlns="https://iam.amazonaws.com/doc/2010-05-
08/">
<UploadServerCertificateResult>
  <ServerCertificateMetadata>
```

```
<ServerCertificateName>ProdServerCert</ServerCertificateName>
<Path>/company/servercerts/</Path>
<Arn>arn:aws:iam::123456789012:server-certificate/company/servercerts/Prod
ServerCert</Arn>
<UploadDate>2010-05-08T01:02:03.004Z</UploadDate>
<ServerCertificateId>ASCACKCEVSQ6C2EXAMPLE</ServerCertificateId>
<Expiration>2012-05-08T01:02:03.004Z</Expiration>
</ServerCertificateMetadata>
</UploadServerCertificateResult>
<ResponseMetadata>
<RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
</ResponseMetadata>
</UploadServerCertificateResponse>
```

UploadSigningCertificate

Uploads an X.509 signing certificate and associates it with the specified user. Some AWS services use X.509 signing certificates to validate requests that are signed with a corresponding private key. When you upload the certificate, its default status is Active.

If the `UserName` field is not specified, the user name is determined implicitly based on the AWS access key ID used to sign the request. Because this action works for access keys under the AWS account, you can use this action to manage root credentials even if the AWS account has no associated users.

Note

Because the body of a X.509 certificate can be large, you should use POST rather than GET when calling `UploadSigningCertificate`. For information about setting up signatures and authorization through the API, go to [Signing AWS API Requests](#) in the *AWS General Reference*. For general information about using the Query API with IAM, go to [Making Query Requests](#) in the *Using IAM* guide.

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

CertificateBody

The contents of the signing certificate.

Type: String

Length constraints: Minimum length of 1. Maximum length of 16384.

Pattern: [\u0009\u000A\u000D\u0020-\u00FF]+

Required: Yes

UserName

The name of the user the signing certificate is for.

Type: String

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

Pattern: [\w+=, .@-]+

Required: No

Response Elements

The following element is returned.

Certificate

Information about the certificate.

Type: [SigningCertificate \(p. 293\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

DuplicateCertificate

The request was rejected because the same certificate is associated with an IAM user in the account.

HTTP Status Code: 409

EntityAlreadyExists

The request was rejected because it attempted to create a resource that already exists.

HTTP Status Code: 409

InvalidCertificate

The request was rejected because the certificate is invalid.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

MalformedCertificate

The request was rejected because the certificate was malformed or expired. The error message describes the specific error.

HTTP Status Code: 400

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

ServiceFailure

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

HTTP Status Code: 500

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=UploadSigningCertificate
&UserName=Bob
&CertificateBody=
-----BEGIN CERTIFICATE-----
MIICdzCCAeCgAwIBAgIGANC+Ha2wMA0GCSqGSIb3DQEBBQUAMFMxCzAJBgNVBAYT
AlVTMRMwEOYDVQQKEwpBbWF6b24uY29tMQwwCgYDVQQLEwNBV1MxITAfBgNVBAMT
GEFXUyBMaW1pdGVkLUFzc3VyyW5jZSBQDQTaeFw0wOTAyMDQxNzE5MjdaFw0xMDAy
MDQxNzE5MjdaMFIXczAJBgNVBAYTA1VTMRMwEQYDVQQKEwpBbWF6b24uY29tMRcw
FQYDVQQLEw5BV1MtRGV2ZWxvcGVyczEVMBMGA1UEAxMMNTdxNDl0c3ZwYjRtMIGf
MA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQCpB/vsOwmT/O0td1RqzKjttSBaPjbr
dqwNe9BrOyB08fw2+Ch5oonZYxfGUrT6mkYXH5fQot9HvASrzAKH0596FdJA6DmL
ywdWe1Oggk7zFSXO1Xv+3vPrJtaYxYo3eRIp7w80PMkiOv6M0XK8ubcTouODeJbf
suDqcLnLDxwsvwIDAQABo1cwVTAOBgNVHQ8BAf8EBAMCBaAwFgYDVR01AQH/BAww
CgYIKwYBBQUAwIwDAYDVR0TAQH/BAIwADAdBgNVHQ4EFgQULGNaBphBumaKbDRK
CAi0mH8B3mowDQYJKoZIhvcNAQEFBQADgYEAuKxhkXaCLGcqDuweKtO/AEw9ZePH
wr0XqsaIK2HZboqruebXEGsojK4Ks0WzwgrEynuHjwTn760xe39rSqXWI0GrOBaX
wFpWHVjTFMKK+tSDGllssLHyYWwdFFU4AnejRGORJYNaRHgVTkjHphc5jEhHm0BX
```

```
AEaHzTpmEXAMPLE=
-----END CERTIFICATE-----
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<UploadSigningCertificateResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <UploadSigningCertificateResult>
    <Certificate>
      <UserName>Bob</UserName>
      <CertificateId>TA7SMP42TDN5Z26OBPJE7EXAMPLE</CertificateId>
      <CertificateBody>
        -----BEGIN CERTIFICATE-----
MIICdzCCAeCgAwIBAgIGANc+Ha2wMA0GCSqGSIb3DQEBBQUAMFMxCzAJBgNVBAYT
AlVTMRMwEQYDVQQKEwpBbWF6b24uY29tMQwwCgYDVQQLEwNBV1MxITAfBgNVBAMT
GEFXUyBMaW1pdGVkLUFzc3VyyW5jZSBDDQTAeFw0wOTAYMDQxNzE5MjdaFw0xMDAy
MDQxNzE5MjdaMFIxCzAJBgNVBAYTA1VTMRMwEQYDVQQKEwpBbWF6b24uY29tMRcw
FQYDVQQLEw5BV1MtRGV2ZWxvcGVyczEVMBMGA1UEAxMMNTdxND10c3ZwyjRtMIGf
MA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQCpB/vsOwmT/O0td1RqzKjtSBaPjbr
dqwNe9BrOyB08fw2+Ch5oonZYXfGUrT6mkYXH5fQot9HvASrzAKHO596FdJA6DmL
ywdWe1Oggk7zFSX01Xv+3vPrJtaYxYo3eRIp7w80PMkiOv6M0XK8ubcTouODeJbf
suDqcLnLDxwsvwIDAQABo1cwVTAOBgNVHQ8BAf8EBAMCBaAwFgYDVR01AQH/BAww
CgYIKwYBBQUHAWIwDAYDVR0TAQH/BAIwADAdBgNVHQ4EFgQULGNaBphBumaKbDRK
CAi0mH8B3mowDQYJKoZIhvcNAQEFBQADgYEAuKxhkXaCLGcqDuweKtO/AEw9ZePH
wr0XqsaIK2HZboqruebXEGsojk4Ks0WzwgrEynuHjwTn760xe39rSqXWIOnGrOBaX
wFpWHVjTFMKk+tSDG1lssLHyYWwdFFU4AnejRGORJYNaRHgVTkjHphc5jEhHm0BX
AEaHzTpmEXAMPLE=
        -----END CERTIFICATE-----
      </CertificateBody>
      <Status>Active</Status>
    </Certificate>
  </UploadSigningCertificateResult>
  <ResponseMetadata>
    <RequestId>7a62c49f-347e-4fc4-9331-6e8eEXAMPLE</RequestId>
  </ResponseMetadata>
</UploadSigningCertificateResponse>
```

UploadSSHPublicKey

Uploads an SSH public key and associates it with the specified IAM user.

The SSH public key uploaded by this action can be used only for authenticating the associated IAM user to an AWS CodeCommit repository. For more information about using SSH keys to authenticate to an AWS CodeCommit repository, see [Set up AWS CodeCommit for SSH Connections](#) in the [AWS CodeCommit User Guide](#).

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 301\)](#).

SSHPublicKeyBody

The SSH public key. The public key must be encoded in ssh-rsa format or PEM format.

Type: String

Length constraints: Minimum length of 1. Maximum length of 16384.

Pattern: [\u0009\u000A\u000D\u0020-\u00FF] +

Required: Yes

UserName

The name of the IAM user to associate the SSH public key with.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-] +

Required: Yes

Response Elements

The following element is returned.

SSHPublicKey

Contains information about the SSH public key.

Type: [SSHPublicKey \(p. 294\)](#)

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 303\)](#).

DuplicateSSHPublicKey

The request was rejected because the SSH public key is already associated with the specified IAM user.

HTTP Status Code: 400

InvalidPublicKey

The request was rejected because the public key is malformed or otherwise invalid.

HTTP Status Code: 400

LimitExceeded

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error message describes the limit exceeded.

HTTP Status Code: 409

NoSuchEntity

The request was rejected because it referenced an entity that does not exist. The error message describes the entity.

HTTP Status Code: 404

UnrecognizedPublicKeyEncoding

The request was rejected because the public key encoding format is unsupported or unrecognized.

HTTP Status Code: 400

Examples

Sample Request

```
https://iam.amazonaws.com/?Action=UploadSSHPublicKey
&SSHPublicKeyBody=ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQCy75ak72GGaoZNy0cjUERIn
+mrga0C30kmkiwOeN4H6YtvCdUksVppjPOhm485WFRzvIcxMEuZ9ISAk8AfefybxH0PdQWhELSu0p
HaMnADAU7dOn3CCer08+0sycbu4ES4P+cdK1qet3ptsG/zeQNLLmOK5zjIRa1MAS3KnwLwHEVPEe4JD
+xfghu00nwzUgpneGNwk7m7qihYLFnNCFdeU8OeIr9Fmc75g5o1Hm6ZoC/bccAHurHkfcDpanJTLnfL
R5Oj14CZSSRP4kNdm+oe5+IPM78w4J9v4pXU4mizYDE21G4gUDVxOrs0X661MihX6ArVgmEK+NK5GQg
n9z jane@example.com
&UserName=Jane
&Version=2010-05-08
&AUTHPARAMS
```

Sample Response

```
<UploadSSHPublicKeyResponse xmlns="https://iam.amazonaws.com/doc/2010-05-08/">
  <UploadSSHPublicKeyResult>
    <PublicKey>
      <UploadDate>2015-06-05T20:56:46.012Z</UploadDate>
      <Fingerprint>7a:1d:ea:9e:b0:80:ac:f8:ec:d8:dc:e6:a7:2c:fc:51</Fingerprint>
      <UserName>Jane</UserName>
      <SSHPublicKeyId>APKAEIVFHP46CEEXAMPLE</SSHPublicKeyId>
      <Status>Active</Status>
      <SSHPublicKeyBody>
        ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQCy75ak72GGaoZNy0cjUERIn+mrga0C30k
        mkiwOeN4H6YtvCdUksVppjPOhm485WFRzvIcxMEuZ9ISAk8AfefybxH0PdQWhELSu0pHa
```

```
MnADAU7dOn3CCerO8+0syccbu4ES4P+cdK1qet3ptsG/zeQNLLmOK5zjIRa1MAS3KnwLwHEV
PEe4JD+xfghu00nwzUgpneGNwk7m7qihYLFnNCFdeU80eIr9Fmc75g5o1Hm6ZoC/bccAHur
HkfcDpanJTLNfLR5Oj14CZSsRP4kNdm+oe5+IPM78w4J9v4pXU4mizYDE21G4gUDVxOrs0X
66lMihX6ArVgmEK+NK5GQgn9z jane@example.com
</SSHPublicKeyBody>
</PublicKey>
</UploadSSHPublicKeyResult>
<ResponseMetadata>
  <RequestId>3da97a2f-f369-11e4-97ab-c53b2EXAMPLE</RequestId>
</ResponseMetadata>
</UploadSSHPublicKeyResponse>
```

Data Types

The AWS Identity and Access Management API contains several data types that various actions use. This section describes each data type in detail.

Note

The order of each element in the response is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [AccessKey \(p. 271\)](#)
- [AccessKeyLastUsed \(p. 272\)](#)
- [AccessKeyMetadata \(p. 273\)](#)
- [AttachedPolicy \(p. 273\)](#)
- [Group \(p. 274\)](#)
- [GroupDetail \(p. 275\)](#)
- [InstanceProfile \(p. 277\)](#)
- [LoginProfile \(p. 278\)](#)
- [ManagedPolicyDetail \(p. 279\)](#)
- [MFADevice \(p. 281\)](#)
- [OpenIDConnectProviderListEntry \(p. 281\)](#)
- [PasswordPolicy \(p. 282\)](#)
- [Policy \(p. 283\)](#)
- [PolicyDetail \(p. 285\)](#)
- [PolicyGroup \(p. 285\)](#)
- [PolicyRole \(p. 286\)](#)
- [PolicyUser \(p. 286\)](#)
- [PolicyVersion \(p. 287\)](#)
- [Role \(p. 288\)](#)
- [RoleDetail \(p. 289\)](#)
- [SAMLProviderListEntry \(p. 291\)](#)
- [ServerCertificate \(p. 291\)](#)
- [ServerCertificateMetadata \(p. 292\)](#)
- [SigningCertificate \(p. 293\)](#)

- [SSHPublicKey \(p. 294\)](#)
- [SSHPublicKeyMetadata \(p. 295\)](#)
- [User \(p. 296\)](#)
- [UserDetail \(p. 297\)](#)
- [VirtualMFADevice \(p. 299\)](#)

AccessKey

Description

Contains information about an AWS access key.

This data type is used as a response element in the [CreateAccessKey \(p. 20\)](#) and [ListAccessKeys \(p. 149\)](#) actions.

Note

The `SecretAccessKey` value is returned only in response to [CreateAccessKey \(p. 20\)](#). You can get a secret access key only when you first create an access key; you cannot recover the secret access key later. If you lose a secret access key, you must create a new access key.

Contents

AccessKeyId

The ID for this access key.

Type: String

Length constraints: Minimum length of 16. Maximum length of 32.

Pattern: [\w]+

Required: Yes

CreateDate

The date when the access key was created.

Type: DateTime

Required: No

SecretAccessKey

The secret key used to sign requests.

Type: String

Required: Yes

Status

The status of the access key. `Active` means the key is valid for API calls, while `Inactive` means it is not.

Type: String

Valid Values: `Active` | `Inactive`

Required: Yes

UserName

The name of the IAM user that the access key is associated with.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-] +

Required: Yes

AccessKeyLastUsed

Description

Contains information about the last time an AWS access key was used.

This data type is used as a response element in the [GetAccessKeyLastUsed \(p. 99\)](#) action.

Contents

LastUsedDate

The date and time, in [ISO 8601 date-time format](#), when the access key was most recently used. This field is null when:

- The user does not have an access key.
- An access key exists but has never been used, at least not since IAM started tracking this information on April 22nd, 2015.
- There is no sign-in data associated with the user

Type: DateTime

Required: Yes

Region

The AWS region where this access key was most recently used. This field is null when:

- The user does not have an access key.
- An access key exists but has never been used, at least not since IAM started tracking this information on April 22nd, 2015.
- There is no sign-in data associated with the user

For more information about AWS regions, see [Regions and Endpoints](#) in the Amazon Web Services General Reference.

Type: String

Required: Yes

ServiceName

The name of the AWS service with which this access key was most recently used. This field is null when:

- The user does not have an access key.
- An access key exists but has never been used, at least not since IAM started tracking this information on April 22nd, 2015.
- There is no sign-in data associated with the user

Type: String

Required: Yes

AccessKeyMetadata

Description

Contains information about an AWS access key, without its secret key.

This data type is used as a response element in the [ListAccessKeys \(p. 149\)](#) action.

Contents

AccessKeyId

The ID for this access key.

Type: String

Length constraints: Minimum length of 16. Maximum length of 32.

Pattern: [\w] +

Required: No

CreateDate

The date when the access key was created.

Type: DateTime

Required: No

Status

The status of the access key. Active means the key is valid for API calls; Inactive means it is not.

Type: String

Valid Values: Active | Inactive

Required: No

UserName

The name of the IAM user that the key is associated with.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-] +

Required: No

AttachedPolicy

Description

Contains information about an attached policy.

An attached policy is a managed policy that has been attached to a user, group, or role. This data type is used as a response element in the [ListAttachedGroupPolicies \(p. 154\)](#), [ListAttachedRolePolicies \(p. 157\)](#), [ListAttachedUserPolicies \(p. 160\)](#), and [GetAccountAuthorizationDetails \(p. 101\)](#) actions.

For more information about managed policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Contents

PolicyArn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the *AWS General Reference*.

Type: String

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

Required: No

PolicyName

The friendly name of the attached policy.

Type: String

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

Pattern: [\w+= , .@-] +

Required: No

Group

Description

Contains information about an IAM group entity.

This data type is used as a response element in the following actions:

- [CreateGroup \(p. 24\)](#)
- [GetGroup \(p. 119\)](#)
- [ListGroups \(p. 169\)](#)

Contents

Arn

The Amazon Resource Name (ARN) specifying the group. For more information about ARNs and how to use them in policies, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

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

Required: Yes

CreateDate

The date and time, in [ISO 8601 date-time format](#), when the group was created.

Type: DateTime

Required: Yes

GroupId

The stable and unique string identifying the group. For more information about IDs, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

Length constraints: Minimum length of 16. Maximum length of 32.

Pattern: [\w] +

Required: Yes

GroupName

The friendly name that identifies the group.

Type: String

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

Pattern: [\w+=, .@-] +

Required: Yes

Path

The path to the group. For more information about paths, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

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

Pattern: (\u002F) | (\u002F[\u0021-\u007F]+\u002F)

Required: Yes

GroupDetail

Description

Contains information about an IAM group, including all of the group's policies.

This data type is used as a response element in the [GetAccountAuthorizationDetails \(p. 101\)](#) action.

Contents

Arn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the *AWS General Reference*.

Type: String

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

Required: No

AttachedManagedPolicies

A list of the managed policies attached to the group.

Type: [AttachedPolicy \(p. 273\)](#) list

Required: No

CreateDate

The date and time, in [ISO 8601 date-time format](#), when the group was created.

Type: DateTime

Required: No

GroupId

The stable and unique string identifying the group. For more information about IDs, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

Length constraints: Minimum length of 16. Maximum length of 32.

Pattern: [\w] +

Required: No

GroupName

The friendly name that identifies the group.

Type: String

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

Pattern: [\w+=, .@-] +

Required: No

GroupPolicyList

A list of the inline policies embedded in the group.

Type: [PolicyDetail \(p. 285\)](#) list

Required: No

Path

The path to the group. For more information about paths, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

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

Pattern: (\u002F) | (\u002F[\u0021-\u007F]+\u002F)

Required: No

InstanceProfile

Description

Contains information about an instance profile.

This data type is used as a response element in the following actions:

- [CreateInstanceProfile \(p. 26\)](#)
- [GetInstanceProfile \(p. 124\)](#)
- [ListInstanceProfiles \(p. 175\)](#)
- [ListInstanceProfilesForRole \(p. 178\)](#)

Contents

Arn

The Amazon Resource Name (ARN) specifying the instance profile. For more information about ARNs and how to use them in policies, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

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

Required: Yes

CreateDate

The date when the instance profile was created.

Type: DateTime

Required: Yes

InstanceProfileId

The stable and unique string identifying the instance profile. For more information about IDs, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

Length constraints: Minimum length of 16. Maximum length of 32.

Pattern: [\w] +

Required: Yes

InstanceProfileName

The name identifying the instance profile.

Type: String

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

Pattern: [\w+=, .@-] +

Required: Yes

Path

The path to the instance profile. For more information about paths, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

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

Pattern: (\u002F) | (\u002F[\u0021-\u007F]+\u002F)

Required: Yes

Roles

The role associated with the instance profile.

Type: [Role \(p. 288\)](#) list

Required: Yes

LoginProfile

Description

Contains the user name and password create date for a user.

This data type is used as a response element in the [CreateLoginProfile \(p. 28\)](#) and [GetLoginProfile \(p. 126\)](#) actions.

Contents

CreateDate

The date when the password for the user was created.

Type: DateTime

Required: Yes

PasswordResetRequired

Specifies whether the user is required to set a new password on next sign-in.

Type: Boolean

Required: No

UserName

The name of the user, which can be used for signing in to the AWS Management Console.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=,.@-]+

Required: Yes

ManagedPolicyDetail

Description

Contains information about a managed policy, including the policy's ARN, versions, and the number of principal entities (users, groups, and roles) that the policy is attached to.

This data type is used as a response element in the [GetAccountAuthorizationDetails \(p. 101\)](#) action.

For more information about managed policies, see [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Contents

Arn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the *AWS General Reference*.

Type: String

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

Required: No

AttachmentCount

The number of principal entities (users, groups, and roles) that the policy is attached to.

Type: Integer

Required: No

CreateDate

The date and time, in [ISO 8601 date-time format](#), when the policy was created.

Type: DateTime

Required: No

DefaultVersionId

The identifier for the version of the policy that is set as the default (operative) version.

For more information about policy versions, see [Versioning for Managed Policies](#) in the *Using IAM* guide.

Type: String

Pattern: v[1-9][0-9]*(\.[A-Za-z0-9-]*)?

Required: No

Description

A friendly description of the policy.

Type: String

Length constraints: Minimum length of 0. Maximum length of 1000.

Required: No

IsAttachable

Specifies whether the policy can be attached to an IAM user, group, or role.

Type: Boolean

Required: No

Path

The path to the policy.

For more information about paths, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

Pattern: ((/ [A-Za-z0-9\.,\+@=_-] +) *) /

Required: No

PolicyId

The stable and unique string identifying the policy.

For more information about IDs, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

Length constraints: Minimum length of 16. Maximum length of 32.

Pattern: [\w] +

Required: No

PolicyName

The friendly name (not ARN) identifying the policy.

Type: String

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

Pattern: [\w+=, .@-] +

Required: No

PolicyVersionList

A list containing information about the versions of the policy.

Type: [PolicyVersion](#) (p. 287) list

Required: No

UpdateDate

The date and time, in [ISO 8601 date-time format](#), when the policy was last updated.

When a policy has only one version, this field contains the date and time when the policy was created. When a policy has more than one version, this field contains the date and time when the most recent policy version was created.

Type: DateTime

Required: No

MFADevice

Description

Contains information about an MFA device.

This data type is used as a response element in the [ListMFADevices \(p. 181\)](#) action.

Contents

EnableDate

The date when the MFA device was enabled for the user.

Type: DateTime

Required: Yes

SerialNumber

The serial number that uniquely identifies the MFA device. For virtual MFA devices, the serial number is the device ARN.

Type: String

Length constraints: Minimum length of 9. Maximum length of 256.

Pattern: [\w+=/:,.@-]+

Required: Yes

UserName

The user with whom the MFA device is associated.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=,.@-]+

Required: Yes

OpenIDConnectProviderListEntry

Description

Contains the Amazon Resource Name (ARN) for an IAM OpenID Connect provider.

Contents

Arn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the [AWS General Reference](#).

Type: String

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

Required: No

PasswordPolicy

Description

Contains information about the account password policy.

This data type is used as a response element in the [GetAccountPasswordPolicy \(p. 109\)](#) action.

Contents

AllowUsersToChangePassword

Specifies whether IAM users are allowed to change their own password.

Type: Boolean

Required: No

ExpirePasswords

Specifies whether IAM users are required to change their password after a specified number of days.

Type: Boolean

Required: No

HardExpiry

Specifies whether IAM users are prevented from setting a new password after their password has expired.

Type: Boolean

Required: No

MaxPasswordAge

The number of days that an IAM user password is valid.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 1095.

Required: No

MinimumPasswordLength

Minimum length to require for IAM user passwords.

Type: Integer

Valid range: Minimum value of 6. Maximum value of 128.

Required: No

PasswordReusePrevention

Specifies the number of previous passwords that IAM users are prevented from reusing.

Type: Integer

Valid range: Minimum value of 1. Maximum value of 24.

Required: No

RequireLowercaseCharacters

Specifies whether to require lowercase characters for IAM user passwords.

Type: Boolean

Required: No

RequireNumbers

Specifies whether to require numbers for IAM user passwords.

Type: Boolean

Required: No

RequireSymbols

Specifies whether to require symbols for IAM user passwords.

Type: Boolean

Required: No

RequireUppercaseCharacters

Specifies whether to require uppercase characters for IAM user passwords.

Type: Boolean

Required: No

Policy

Description

Contains information about a managed policy.

This data type is used as a response element in the [CreatePolicy \(p. 33\)](#), [GetPolicy \(p. 130\)](#), and [ListPolicies \(p. 186\)](#) actions.

For more information about managed policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Contents

Arn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the *AWS General Reference*.

Type: String

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

Required: No

AttachmentCount

The number of entities (users, groups, and roles) that the policy is attached to.

Type: Integer

Required: No

CreateDate

The date and time, in [ISO 8601 date-time format](#), when the policy was created.

Type: DateTime

Required: No

DefaultVersionId

The identifier for the version of the policy that is set as the default version.

Type: String

Pattern: v[1-9][0-9]*(\.[A-Za-z0-9-]*)?

Required: No

Description

A friendly description of the policy.

This element is included in the response to the [GetPolicy \(p. 130\)](#) operation. It is not included in the response to the [ListPolicies \(p. 186\)](#) operation.

Type: String

Length constraints: Minimum length of 0. Maximum length of 1000.

Required: No

IsAttachable

Specifies whether the policy can be attached to an IAM user, group, or role.

Type: Boolean

Required: No

Path

The path to the policy.

For more information about paths, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

Pattern: ((/[A-Za-z0-9\.,\+@=_-]+)*)/

Required: No

PolicyId

The stable and unique string identifying the policy.

For more information about IDs, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

Length constraints: Minimum length of 16. Maximum length of 32.

Pattern: [\w]+

Required: No

PolicyName

The friendly name (not ARN) identifying the policy.

Type: String

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

Pattern: [\w+=, .@-] +

Required: No

UpdateDate

The date and time, in [ISO 8601 date-time format](#), when the policy was last updated.

When a policy has only one version, this field contains the date and time when the policy was created. When a policy has more than one version, this field contains the date and time when the most recent policy version was created.

Type: DateTime

Required: No

PolicyDetail

Description

Contains information about an IAM policy, including the policy document.

This data type is used as a response element in the [GetAccountAuthorizationDetails \(p. 101\)](#) action.

Contents

PolicyDocument

The policy document.

Type: String

Length constraints: Minimum length of 1. Maximum length of 131072.

Pattern: [\u0009\u000A\u000D\u0020-\u00FF] +

Required: No

PolicyName

The name of the policy.

Type: String

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

Pattern: [\w+=, .@-] +

Required: No

PolicyGroup

Description

Contains information about a group that a managed policy is attached to.

This data type is used as a response element in the [ListEntitiesForPolicy \(p. 163\)](#) action.

For more information about managed policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Contents

GroupName

The name (friendly name, not ARN) identifying the group.

Type: String

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

Pattern: [\w+=, .@-] +

Required: No

PolicyRole

Description

Contains information about a role that a managed policy is attached to.

This data type is used as a response element in the [ListEntitiesForPolicy \(p. 163\)](#) action.

For more information about managed policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Contents

RoleName

The name (friendly name, not ARN) identifying the role.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-] +

Required: No

PolicyUser

Description

Contains information about a user that a managed policy is attached to.

This data type is used as a response element in the [ListEntitiesForPolicy \(p. 163\)](#) action.

For more information about managed policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Contents

UserName

The name (friendly name, not ARN) identifying the user.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-] +

Required: No

PolicyVersion

Description

Contains information about a version of a managed policy.

This data type is used as a response element in the [CreatePolicyVersion \(p. 36\)](#), [GetPolicyVersion \(p. 132\)](#), [ListPolicyVersions \(p. 190\)](#), and [GetAccountAuthorizationDetails \(p. 101\)](#) actions.

For more information about managed policies, refer to [Managed Policies and Inline Policies](#) in the *Using IAM* guide.

Contents

CreateDate

The date and time, in [ISO 8601 date-time format](#), when the policy version was created.

Type: DateTime

Required: No

Document

The policy document.

The policy document is returned in the response to the [GetPolicyVersion \(p. 132\)](#) and [GetAccountAuthorizationDetails \(p. 101\)](#) operations. It is not returned in the response to the [CreatePolicyVersion \(p. 36\)](#) or [ListPolicyVersions \(p. 190\)](#) operations.

Type: String

Length constraints: Minimum length of 1. Maximum length of 131072.

Pattern: [\u0009\u000A\u000D\u0020-\u00FF] +

Required: No

IsDefaultVersion

Specifies whether the policy version is set as the policy's default version.

Type: Boolean

Required: No

VersionId

The identifier for the policy version.

Policy version identifiers always begin with `v` (always lowercase). When a policy is created, the first policy version is `v1`.

Type: String

Pattern: `v[1-9][0-9]*(\.[A-Za-z0-9-]*)?`

Required: No

Role

Description

Contains information about an IAM role.

This data type is used as a response element in the following actions:

- [CreateRole \(p. 39\)](#)
- [GetRole \(p. 134\)](#)
- [ListRoles \(p. 196\)](#)

Contents

Arn

The Amazon Resource Name (ARN) specifying the role. For more information about ARNs and how to use them in policies, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

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

Required: Yes

AssumeRolePolicyDocument

The policy that grants an entity permission to assume the role.

Type: String

Length constraints: Minimum length of 1. Maximum length of 131072.

Pattern: `[\u0009\u000A\u000D\u0020-\u00FF]+`

Required: No

CreateDate

The date and time, in [ISO 8601 date-time format](#), when the role was created.

Type: DateTime

Required: Yes

Path

The path to the role. For more information about paths, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

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

Pattern: (\u002F) | (\u002F[\u0021-\u007F]+\u002F)

Required: Yes

RoleId

The stable and unique string identifying the role. For more information about IDs, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

Length constraints: Minimum length of 16. Maximum length of 32.

Pattern: [\w]+

Required: Yes

RoleName

The friendly name that identifies the role.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=,.@-]+

Required: Yes

RoleDetail

Description

Contains information about an IAM role, including all of the role's policies.

This data type is used as a response element in the [GetAccountAuthorizationDetails \(p. 101\)](#) action.

Contents

Arn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the *AWS General Reference*.

Type: String

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

Required: No

AssumeRolePolicyDocument

The trust policy that grants permission to assume the role.

Type: String

Length constraints: Minimum length of 1. Maximum length of 131072.

Pattern: [\u0009\u000A\u000D\u0020-\u00FF]+

Required: No

AttachedManagedPolicies

A list of managed policies attached to the role. These policies are the role's access (permissions) policies.

Type: [AttachedPolicy \(p. 273\)](#) list

Required: No

CreateDate

The date and time, in [ISO 8601 date-time format](#), when the role was created.

Type: DateTime

Required: No

InstanceProfileList

Contains a list of instance profiles.

Type: [InstanceProfile \(p. 277\)](#) list

Required: No

Path

The path to the role. For more information about paths, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

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

Pattern: (\u002F) | (\u002F[\u0021-\u007F]+\u002F)

Required: No

RoleId

The stable and unique string identifying the role. For more information about IDs, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

Length constraints: Minimum length of 16. Maximum length of 32.

Pattern: [\w]+

Required: No

RoleName

The friendly name that identifies the role.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=,.@-]+

Required: No

RolePolicyList

A list of inline policies embedded in the role. These policies are the role's access (permissions) policies.

Type: [PolicyDetail \(p. 285\)](#) list

Required: No

SAMLProviderListEntry

Description

Contains the list of SAML providers for this account.

Contents

Arn

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

Type: String

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

Required: No

CreateDate

The date and time when the SAML provider was created.

Type: DateTime

Required: No

ValidUntil

The expiration date and time for the SAML provider.

Type: DateTime

Required: No

ServerCertificate

Description

Contains information about a server certificate.

This data type is used as a response element in the [GetServerCertificate \(p. 140\)](#) action.

Contents

CertificateBody

The contents of the public key certificate.

Type: String

Length constraints: Minimum length of 1. Maximum length of 16384.

Pattern: [\u0009\u000A\u000D\u0020-\u00FF]+

Required: Yes

CertificateChain

The contents of the public key certificate chain.

Type: String

Length constraints: Minimum length of 1. Maximum length of 2097152.

Pattern: [\u0009\u000A\u000D\u0020-\u00FF] +

Required: No

ServerCertificateMetadata

The meta information of the server certificate, such as its name, path, ID, and ARN.

Type: [ServerCertificateMetadata \(p. 292\)](#)

Required: Yes

ServerCertificateMetadata

Description

Contains information about a server certificate without its certificate body, certificate chain, and private key.

This data type is used as a response element in the [UploadServerCertificate \(p. 260\)](#) and [ListServerCertificates \(p. 201\)](#) actions.

Contents

Arn

The Amazon Resource Name (ARN) specifying the server certificate. For more information about ARNs and how to use them in policies, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

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

Required: Yes

Expiration

The date on which the certificate is set to expire.

Type: DateTime

Required: No

Path

The path to the server certificate. For more information about paths, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

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

Pattern: (\u002F) | (\u002F[\u0021-\u007F]+\u002F)

Required: Yes

ServerCertificateId

The stable and unique string identifying the server certificate. For more information about IDs, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

Length constraints: Minimum length of 16. Maximum length of 32.

Pattern: [\w]+

Required: Yes

ServerCertificateName

The name that identifies the server certificate.

Type: String

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

Pattern: [\w+=, .@-]+

Required: Yes

UploadDate

The date when the server certificate was uploaded.

Type: DateTime

Required: No

SigningCertificate

Description

Contains information about an X.509 signing certificate.

This data type is used as a response element in the [UploadSigningCertificate \(p. 264\)](#) and [ListSigningCertificates \(p. 204\)](#) actions.

Contents

CertificateBody

The contents of the signing certificate.

Type: String

Length constraints: Minimum length of 1. Maximum length of 16384.

Pattern: [\u0009\u000A\u000D\u0020-\u00FF]+

Required: Yes

CertificateId

The ID for the signing certificate.

Type: String

Length constraints: Minimum length of 24. Maximum length of 128.

Pattern: [\w]+

Required: Yes

Status

The status of the signing certificate. `Active` means the key is valid for API calls, while `Inactive` means it is not.

Type: String

Valid Values: Active | Inactive

Required: Yes

UploadDate

The date when the signing certificate was uploaded.

Type: DateTime

Required: No

UserName

The name of the user the signing certificate is associated with.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-] +

Required: Yes

SSHPublicKey

Description

Contains information about an SSH public key.

This data type is used as a response element in the [GetSSHPublicKey \(p. 142\)](#) and [UploadSSHPublicKey \(p. 267\)](#) actions.

Contents

Fingerprint

The MD5 message digest of the SSH public key.

Type: String

Length constraints: Minimum length of 48. Maximum length of 48.

Pattern: [: \w] +

Required: Yes

SSHPublicKeyBody

The SSH public key.

Type: String

Length constraints: Minimum length of 1. Maximum length of 16384.

Pattern: [\u0009\u000A\u000D\u0020-\u00FF] +

Required: Yes

SSHPublicKeyId

The unique identifier for the SSH public key.

Type: String

Length constraints: Minimum length of 20. Maximum length of 128.

Pattern: [\w]+

Required: Yes

Status

The status of the SSH public key. `Active` means the key can be used for authentication with an AWS CodeCommit repository. `Inactive` means the key cannot be used.

Type: String

Valid Values: `Active` | `Inactive`

Required: Yes

UploadDate

The date and time, in [ISO 8601 date-time format](#), when the SSH public key was uploaded.

Type: DateTime

Required: No

UserName

The name of the IAM user associated with the SSH public key.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-]+

Required: Yes

SSHPublicKeyMetadata

Description

Contains information about an SSH public key, without the key's body or fingerprint.

This data type is used as a response element in the [ListSSHPublicKeys \(p. 207\)](#) action.

Contents

SSHPublicKeyId

The unique identifier for the SSH public key.

Type: String

Length constraints: Minimum length of 20. Maximum length of 128.

Pattern: [\w]+

Required: Yes

Status

The status of the SSH public key. `Active` means the key can be used for authentication with an AWS CodeCommit repository. `Inactive` means the key cannot be used.

Type: String

Valid Values: Active | Inactive

Required: Yes

UploadDate

The date and time, in [ISO 8601 date-time format](#), when the SSH public key was uploaded.

Type: DateTime

Required: Yes

UserName

The name of the IAM user associated with the SSH public key.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-] +

Required: Yes

User

Description

Contains information about an IAM user entity.

This data type is used as a response element in the following actions:

- [CreateUser \(p. 45\)](#)
- [GetUser \(p. 145\)](#)
- [ListUsers \(p. 213\)](#)

Contents

Arn

The Amazon Resource Name (ARN) that identifies the user. For more information about ARNs and how to use ARNs in policies, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

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

Required: Yes

CreateDate

The date and time, in [ISO 8601 date-time format](#), when the user was created.

Type: DateTime

Required: Yes

PasswordLastUsed

The date and time, in [ISO 8601 date-time format](#), when the user's password was last used to sign in to an AWS website. For a list of AWS websites that capture a user's last sign-in time, see the

[Credential Reports](#) topic in the *Using IAM* guide. If a password is used more than once in a five-minute span, only the first use is returned in this field. This field is null (not present) when:

- The user does not have a password
- The password exists but has never been used (at least not since IAM started tracking this information on October 20th, 2014)
- there is no sign-in data associated with the user

This value is returned only in the [GetUser \(p. 145\)](#) and [ListUsers \(p. 213\)](#) actions.

Type: DateTime

Required: No

Path

The path to the user. For more information about paths, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

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

Pattern: (\u002F) | (\u002F[\u0021-\u007F]+\u002F)

Required: Yes

UserId

The stable and unique string identifying the user. For more information about IDs, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

Length constraints: Minimum length of 16. Maximum length of 32.

Pattern: [\w]+

Required: Yes

UserName

The friendly name identifying the user.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=,.@-]+

Required: Yes

UserDetail

Description

Contains information about an IAM user, including all the user's policies and all the IAM groups the user is in.

This data type is used as a response element in the [GetAccountAuthorizationDetails \(p. 101\)](#) action.

Contents

Arn

The Amazon Resource Name (ARN). ARNs are unique identifiers for AWS resources.

For more information about ARNs, go to [Amazon Resource Names \(ARNs\) and AWS Service Namespaces](#) in the *AWS General Reference*.

Type: String

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

Required: No

AttachedManagedPolicies

A list of the managed policies attached to the user.

Type: [AttachedPolicy](#) (p. 273) list

Required: No

CreateDate

The date and time, in [ISO 8601 date-time format](#), when the user was created.

Type: DateTime

Required: No

GroupList

A list of IAM groups that the user is in.

Type: String list

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

Pattern: [\w+= , .@-] +

Required: No

Path

The path to the user. For more information about paths, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

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

Pattern: (\u002F) | (\u002F[\u0021-\u007F]+\u002F)

Required: No

UserId

The stable and unique string identifying the user. For more information about IDs, see [IAM Identifiers](#) in the *Using IAM* guide.

Type: String

Length constraints: Minimum length of 16. Maximum length of 32.

Pattern: [\w] +

Required: No

UserName

The friendly name identifying the user.

Type: String

Length constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w+=, .@-] +

Required: No

UserPolicyList

A list of the inline policies embedded in the user.

Type: [PolicyDetail \(p. 285\)](#) list

Required: No

VirtualMFADevice

Description

Contains information about a virtual MFA device.

Contents

Base32StringSeed

The Base32 seed defined as specified in [RFC3548](#). The `Base32StringSeed` is Base64-encoded.

Type: Blob

Required: No

EnableDate

The date and time on which the virtual MFA device was enabled.

Type: DateTime

Required: No

QRCodePNG

A QR code PNG image that encodes `otpauth://totp/$virtualMFADeviceName@$AccountName?secret=$Base32String` where `$virtualMFADeviceName` is one of the create call arguments, `AccountName` is the user name if set (otherwise, the account ID otherwise), and `Base32String` is the seed in Base32 format. The `Base32String` value is Base64-encoded.

Type: Blob

Required: No

SerialNumber

The serial number associated with `VirtualMFADevice`.

Type: String

Length constraints: Minimum length of 9. Maximum length of 256.

Pattern: [\w+=/:, .@-] +

Required: Yes

User

Contains information about an IAM user entity.

This data type is used as a response element in the following actions:

- [CreateUser \(p. 45\)](#)
- [GetUser \(p. 145\)](#)
- [ListUsers \(p. 213\)](#)

Type: [User \(p. 296\)](#)

Required: No

Common Parameters

The following table lists the parameters that all actions use for signing Signature Version 4 requests. Any action-specific parameters are listed in the topic for that action. To view sample requests, see [Examples of Signed Signature Version 4 Requests](#) or [Signature Version 4 Test Suite](#) 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'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 [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. For a list of services that support AWS Security Token Service, go to [Using Temporary Security Credentials to Access AWS](#) in *Using Temporary Security Credentials*.

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 common errors that all actions return. Any action-specific errors are listed in the topic for the action.

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

Throttling

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationErrorResponse

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

HTTP Status Code: 400