# Amazon Cognito Identity Provider API Reference API Version 2016-04-18



# **Amazon Cognito Identity Provider: API Reference**

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# Welcome

Using the Amazon Cognito User Pools API, you can create a user pool to manage directories and users. You can authenticate a user to obtain tokens related to user identity and access policies.

This API reference provides information about user pools in Amazon Cognito User Pools.

For more information, see the Amazon Cognito Documentation.

This document was last published on November 19, 2018.

# **Actions**

#### The following actions are supported:

- AddCustomAttributes (p. 5)
- AdminAddUserToGroup (p. 7)
- AdminConfirmSignUp (p. 9)
- AdminCreateUser (p. 12)
- AdminDeleteUser (p. 18)
- AdminDeleteUserAttributes (p. 20)
- AdminDisableProviderForUser (p. 22)
- AdminDisableUser (p. 25)
- AdminEnableUser (p. 27)
- AdminForgetDevice (p. 29)
- AdminGetDevice (p. 31)
- AdminGetUser (p. 34)
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- VerifySoftwareToken (p. 300)
- VerifyUserAttribute (p. 304)

# AddCustomAttributes

Adds additional user attributes to the user pool schema.

## Request Syntax

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

#### CustomAttributes (p. 5)

An array of custom attributes, such as Mutable and Name.

Type: Array of SchemaAttributeType (p. 360) objects

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Required: Yes

UserPoolId (p. 5)

The user pool ID for the user pool where you want to add custom attributes.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# **Response Elements**

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

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

## InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400
NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

UserImportInProgressException

This exception is thrown when you are trying to modify a user pool while a user import job is in progress for that pool.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- · AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- · AWS SDK for Python
- AWS SDK for Ruby V2

# AdminAddUserToGroup

Adds the specified user to the specified group.

Requires developer credentials.

## Request Syntax

```
"GroupName": "string",
"Username": "string",
"UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
GroupName (p. 7)
   The group name.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 128.
   Pattern: [\p{L}\p{M}\p{S}\p{N}\p{P}]+
   Required: Yes
Username (p. 7)
   The username for the user.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 128.
   Pattern: [\p{L}\p{M}\p{S}\p{N}\p{P}]+
   Required: Yes
UserPoolId (p. 7)
   The user pool ID for the user pool.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 55.
   Pattern: [\w-]+_[0-9a-zA-Z]+
   Required: Yes
```

## **Response Elements**

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

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- · AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# AdminConfirmSignUp

Confirms user registration as an admin without using a confirmation code. Works on any user.

Requires developer credentials.

# Request Syntax

```
{
    "Username": "string",
    "UserPoolId": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

#### Username (p. 9)

The user name for which you want to confirm user registration.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: Yes

## UserPoolId (p. 9)

The user pool ID for which you want to confirm user registration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

## Response Elements

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

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

## InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

## Amazon Cognito Identity Provider API Reference See Also

## InvalidLambdaResponseException

This exception is thrown when the Amazon Cognito service encounters an invalid AWS Lambda response.

HTTP Status Code: 400 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 LimitExceededException

This exception is thrown when a user exceeds the limit for a requested AWS resource.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

**TooManyFailedAttemptsException** 

This exception is thrown when the user has made too many failed attempts for a given action (e.g., sign in).

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400
UnexpectedLambdaException

This exception is thrown when the Amazon Cognito service encounters an unexpected exception with the AWS Lambda service.

HTTP Status Code: 400

UserLambdaValidationException

This exception is thrown when the Amazon Cognito service encounters a user validation exception with the AWS Lambda service.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

## See Also

## Amazon Cognito Identity Provider API Reference See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# **AdminCreateUser**

Creates a new user in the specified user pool.

If MessageAction is not set, the default is to send a welcome message via email or phone (SMS).

#### Note

This message is based on a template that you configured in your call to CreateUserPool (p. 113) or UpdateUserPool (p. 288). This template includes your custom sign-up instructions and placeholders for user name and temporary password.

Alternatively, you can call AdminCreateUser with "SUPPRESS" for the MessageAction parameter, and Amazon Cognito will not send any email.

In either case, the user will be in the FORCE\_CHANGE\_PASSWORD state until they sign in and change their password.

AdminCreateUser requires developer credentials.

## Request Syntax

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

## DesiredDeliveryMediums (p. 12)

Specify "EMAIL" if email will be used to send the welcome message. Specify "SMS" if the phone number will be used. The default value is "SMS". More than one value can be specified.

```
Type: Array of strings

Valid Values: SMS | EMAIL

Required: No
```

#### Amazon Cognito Identity Provider API Reference Request Parameters

#### ForceAliasCreation (p. 12)

This parameter is only used if the phone\_number\_verified or email\_verified attribute is set to True. Otherwise, it is ignored.

If this parameter is set to True and the phone number or email address specified in the UserAttributes parameter already exists as an alias with a different user, the API call will migrate the alias from the previous user to the newly created user. The previous user will no longer be able to log in using that alias.

If this parameter is set to False, the API throws an AliasExistsException error if the alias already exists. The default value is False.

Type: Boolean

Required: No

MessageAction (p. 12)

Set to "RESEND" to resend the invitation message to a user that already exists and reset the expiration limit on the user's account. Set to "SUPPRESS" to suppress sending the message. Only one value can be specified.

Type: String

Valid Values: RESEND | SUPPRESS

Required: No

#### TemporaryPassword (p. 12)

The user's temporary password. This password must conform to the password policy that you specified when you created the user pool.

The temporary password is valid only once. To complete the Admin Create User flow, the user must enter the temporary password in the sign-in page along with a new password to be used in all future sign-ins.

This parameter is not required. If you do not specify a value, Amazon Cognito generates one for you.

The temporary password can only be used until the user account expiration limit that you specified when you created the user pool. To reset the account after that time limit, you must call AdminCreateUser again, specifying "RESEND" for the MessageAction parameter.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 256.

Pattern: [\S]+

Required: No
UserAttributes (p. 12)

An array of name-value pairs that contain user attributes and attribute values to be set for the user to be created. You can create a user without specifying any attributes other than Username. However, any attributes that you specify as required (in CreateUserPool (p. 113) or in the Attributes tab of the console) must be supplied either by you (in your call to AdminCreateUser) or by the user (when he or she signs up in response to your welcome message).

For custom attributes, you must prepend the custom: prefix to the attribute name.

To send a message inviting the user to sign up, you must specify the user's email address or phone number. This can be done in your call to AdminCreateUser or in the **Users** tab of the Amazon Cognito console for managing your user pools.

#### Amazon Cognito Identity Provider API Reference Response Syntax

In your call to AdminCreateUser, you can set the email\_verified attribute to True, and you can set the phone\_number\_verified attribute to True. (You can also do this by calling AdminUpdateUserAttributes (p. 79).)

- email: The email address of the user to whom the message that contains the code and username will be sent. Required if the email\_verified attribute is set to True, or if "EMAIL" is specified in the DesiredDeliveryMediums parameter.
- phone\_number: The phone number of the user to whom the message that contains the code and username will be sent. Required if the phone\_number\_verified attribute is set to True, or if "SMS" is specified in the DesiredDeliveryMediums parameter.

Type: Array of AttributeType (p. 315) objects

Required: No Username (p. 12)

The username for the user. Must be unique within the user pool. Must be a UTF-8 string between 1 and 128 characters. After the user is created, the username cannot be changed.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: Yes UserPoolId (p. 12)

The user pool ID for the user pool where the user will be created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes
ValidationData (p. 12)

The user's validation data. This is an array of name-value pairs that contain user attributes and attribute values that you can use for custom validation, such as restricting the types of user accounts that can be registered. For example, you might choose to allow or disallow user sign-up based on the user's domain.

To configure custom validation, you must create a Pre Sign-up Lambda trigger for the user pool as described in the Amazon Cognito Developer Guide. The Lambda trigger receives the validation data and uses it in the validation process.

The user's validation data is not persisted.

Type: Array of AttributeType (p. 315) objects

Required: No

# Response Syntax

```
{
    "User": {
        "Attributes": [
```

```
{
    "Name": "string",
    "Value": "string"
}

],
    "Enabled": boolean,
    "MFAOptions": [
    {
        "AttributeName": "string",
        "DeliveryMedium": "string"
}

],
    "UserCreateDate": number,
    "UserLastModifiedDate": number,
    "Username": "string",
    "UserStatus": "string"
}
```

# **Response Elements**

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

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

#### User (p. 14)

The newly created user.

Type: UserType (p. 388) object

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### CodeDeliveryFailureException

This exception is thrown when a verification code fails to deliver successfully.

HTTP Status Code: 400

## InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

## InvalidLambdaResponseException

This exception is thrown when the Amazon Cognito service encounters an invalid AWS Lambda response.

HTTP Status Code: 400

## InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### InvalidPasswordException

This exception is thrown when the Amazon Cognito service encounters an invalid password.

#### Amazon Cognito Identity Provider API Reference Errors

HTTP Status Code: 400

#### InvalidSmsRoleAccessPolicyException

This exception is returned when the role provided for SMS configuration does not have permission to publish using Amazon SNS.

HTTP Status Code: 400

#### Invalid Sms Role Trust Relationship Exception

This exception is thrown when the trust relationship is invalid for the role provided for SMS configuration. This can happen if you do not trust **cognito-idp.amazonaws.com** or the external ID provided in the role does not match what is provided in the SMS configuration for the user pool.

HTTP Status Code: 400
NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

PreconditionNotMetException

This exception is thrown when a precondition is not met.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400
UnexpectedLambdaException

This exception is thrown when the Amazon Cognito service encounters an unexpected exception with the AWS Lambda service.

HTTP Status Code: 400

UnsupportedUserStateException

The request failed because the user is in an unsupported state.

HTTP Status Code: 400

UserLambdaValidationException

This exception is thrown when the Amazon Cognito service encounters a user validation exception with the AWS Lambda service.

HTTP Status Code: 400

UsernameExistsException

This exception is thrown when Amazon Cognito encounters a user name that already exists in the user pool.

HTTP Status Code: 400

## Amazon Cognito Identity Provider API Reference See Also

## UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

# See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# AdminDeleteUser

Deletes a user as an administrator. Works on any user.

Requires developer credentials.

## Request Syntax

```
{
    "Username": "string",
    "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Username (p. 18)
```

The user name of the user you wish to delete.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: Yes

## UserPoolId (p. 18)

The user pool ID for the user pool where you want to delete the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# **Response Elements**

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

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

## InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

#### Amazon Cognito Identity Provider API Reference See Also

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# AdminDeleteUserAttributes

Deletes the user attributes in a user pool as an administrator. Works on any user.

Requires developer credentials.

## Request Syntax

```
{
  "UserAttributeNames": [ "string" ],
  "Username": "string",
  "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

#### **UserAttributeNames (p. 20)**

An array of strings representing the user attribute names you wish to delete.

For custom attributes, you must prepend the custom: prefix to the attribute name.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: Yes

### Username (p. 20)

The user name of the user from which you would like to delete attributes.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: Yes

### UserPoolId (p. 20)

The user pool ID for the user pool where you want to delete user attributes.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# **Response Elements**

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

### AdminDisableProviderForUser

Disables the user from signing in with the specified external (SAML or social) identity provider. If the user to disable is a Cognito User Pools native username + password user, they are not permitted to use their password to sign-in. If the user to disable is a linked external IdP user, any link between that user and an existing user is removed. The next time the external user (no longer attached to the previously linked DestinationUser) signs in, they must create a new user account. See AdminLinkProviderForUser (p. 44).

This action is enabled only for admin access and requires developer credentials.

The ProviderName must match the value specified when creating an IdP for the pool.

To disable a native username + password user, the ProviderName value must be Cognito and the ProviderAttributeName must be Cognito\_Subject, with the ProviderAttributeValue being the name that is used in the user pool for the user.

The ProviderAttributeName must always be Cognito\_Subject for social identity providers. The ProviderAttributeValue must always be the exact subject that was used when the user was originally linked as a source user.

For de-linking a SAML identity, there are two scenarios. If the linked identity has not yet been used to sign-in, the ProviderAttributeName and ProviderAttributeValue must be the same values that were used for the SourceUser when the identities were originally linked in the AdminLinkProviderForUser (p. 44) call. (If the linking was done with ProviderAttributeName set to Cognito\_Subject, the same applies here). However, if the user has already signed in, the ProviderAttributeName must be Cognito\_Subject and ProviderAttributeValue must be the subject of the SAML assertion.

### Request Syntax

```
{
    "User": {
        "ProviderAttributeName": "string",
        "ProviderAttributeValue": "string",
        "ProviderName": "string"
},
    "UserPoolId": "string"
}
```

### **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
User (p. 22)
```

The user to be disabled.

Type: ProviderUserIdentifierType (p. 353) object

Required: Yes UserPoolId (p. 22)

The user pool ID for the user pool.

### Amazon Cognito Identity Provider API Reference Response Elements

Type: String Required: Yes

# Response Elements

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### AliasExistsException

This exception is thrown when a user tries to confirm the account with an email or phone number that has already been supplied as an alias from a different account. This exception tells user that an account with this email or phone already exists.

HTTP Status Code: 400 InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500
InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400
NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400
UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

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

AWS Command Line Interface

### Amazon Cognito Identity Provider API Reference See Also

- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# AdminDisableUser

Disables the specified user as an administrator. Works on any user.

Requires developer credentials.

### Request Syntax

```
{
   "Username": "string",
   "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Username (p. 25)
```

The user name of the user you wish to disable.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: Yes

### UserPoolId (p. 25)

The user pool ID for the user pool where you want to disable the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# **Response Elements**

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

#### Amazon Cognito Identity Provider API Reference See Also

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# AdminEnableUser

Enables the specified user as an administrator. Works on any user.

Requires developer credentials.

## Request Syntax

```
{
   "Username": "string",
   "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Username (p. 27)
```

The user name of the user you wish to enable.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: Yes

### UserPoolId (p. 27)

The user pool ID for the user pool where you want to enable the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# **Response Elements**

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

#### Amazon Cognito Identity Provider API Reference See Also

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# AdminForgetDevice

Forgets the device, as an administrator.

Requires developer credentials.

### Request Syntax

```
{
   "DeviceKey": "string",
   "Username": "string",
   "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
DeviceKey (p. 29)
   The device key.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 55.
   Pattern: [\w-]+_[0-9a-f-]+
   Required: Yes
Username (p. 29)
   The user name.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 128.
   Pattern: [\p{L}\p{M}\p{S}\p{N}\p{P}]+
   Required: Yes
UserPoolId (p. 29)
   The user pool ID.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 55.
   Pattern: [\w-]+_[0-9a-zA-Z]+
   Required: Yes
```

# Response Elements

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

### Invalid User Pool Configuration Exception

This exception is thrown when the user pool configuration is invalid.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- · AWS SDK for Python
- AWS SDK for Ruby V2

# AdminGetDevice

Gets the device, as an administrator.

Requires developer credentials.

### Request Syntax

```
{
   "DeviceKey": "string",
   "Username": "string",
   "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
DeviceKey (p. 31)
   The device key.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 55.
   Pattern: [\w-]+_[0-9a-f-]+
   Required: Yes
Username (p. 31)
   The user name.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 128.
   Pattern: [\p{L}\p{M}\p{S}\p{N}\p{P}]+
   Required: Yes
UserPoolId (p. 31)
   The user pool ID.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 55.
   Pattern: [\w-]+_[0-9a-zA-Z]+
   Required: Yes
```

# Response Syntax

```
€
```

#### Amazon Cognito Identity Provider API Reference Response Elements

# **Response Elements**

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

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

```
Device (p. 31)
```

The device.

Type: DeviceType (p. 328) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

```
HTTP Status Code: 500
InvalidParameterException
```

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

### InvalidUserPoolConfigurationException

This exception is thrown when the user pool configuration is invalid.

HTTP Status Code: 400
NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

# See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# AdminGetUser

Gets the specified user by user name in a user pool as an administrator. Works on any user.

Requires developer credentials.

# Request Syntax

```
{
    "Username": "string",
    "UserPoolId": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Username (p. 34)
```

The user name of the user you wish to retrieve.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: Yes

#### UserPoolId (p. 34)

The user pool ID for the user pool where you want to get information about the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# Response Syntax

```
"Name": "string",
         "Value": "string"
     }
   ],
   "UserCreateDate": number,
   "UserLastModifiedDate": number,
   "UserMFASettingList": [ "string" ],
   "Username": "string",
   "UserStatus": "string"
}
```

# **Response Elements**

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

```
The following data is returned in JSON format by the service.
Enabled (p. 34)
    Indicates that the status is enabled.
    Type: Boolean
MFAOptions (p. 34)
    Specifies the options for MFA (e.g., email or phone number).
    Type: Array of MFAOptionType (p. 344) objects
PreferredMfaSetting (p. 34)
    The user's preferred MFA setting.
    Type: String
UserAttributes (p. 34)
    An array of name-value pairs representing user attributes.
    Type: Array of AttributeType (p. 315) objects
UserCreateDate (p. 34)
    The date the user was created.
    Type: Timestamp
UserLastModifiedDate (p. 34)
    The date the user was last modified.
    Type: Timestamp
UserMFASettingList (p. 34)
    The list of the user's MFA settings.
    Type: Array of strings
Username (p. 34)
    The user name of the user about whom you are receiving information.
    Type: String
```

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

#### Amazon Cognito Identity Provider API Reference Errors

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

#### UserStatus (p. 34)

The user status. Can be one of the following:

- UNCONFIRMED User has been created but not confirmed.
- CONFIRMED User has been confirmed.
- · ARCHIVED User is no longer active.
- COMPROMISED User is disabled due to a potential security threat.
- UNKNOWN User status is not known.

Type: String

Valid Values: UNCONFIRMED | CONFIRMED | ARCHIVED | COMPROMISED | UNKNOWN | RESET\_REQUIRED | FORCE\_CHANGE\_PASSWORD

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

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

AWS Command Line Interface

### Amazon Cognito Identity Provider API Reference See Also

- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# **AdminInitiateAuth**

Initiates the authentication flow, as an administrator.

Requires developer credentials.

# **Request Syntax**

```
"AnalyticsMetadata": {
   "AnalyticsEndpointId": "string"
"AuthFlow": "string",
"AuthParameters": {
   "string" : "string"
"ClientId": "string",
"ClientMetadata": {
   "string" : "string"
"ContextData": {
   "EncodedData": "string",
   "HttpHeaders": [
         "headerName": "string",
         "headerValue": "string"
      }
   "IpAddress": "string",
  "ServerName": "string",
   "ServerPath": "string"
},
"UserPoolId": "string"
```

## Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

### AnalyticsMetadata (p. 38)

The analytics metadata for collecting Amazon Pinpoint metrics for AdminInitiateAuth calls.

Type: AnalyticsMetadataType (p. 314) object

Required: No

#### AuthFlow (p. 38)

The authentication flow for this call to execute. The API action will depend on this value. For example:

- REFRESH TOKEN AUTH will take in a valid refresh token and return new tokens.
- USER\_SRP\_AUTH will take in USERNAME and SRP\_A and return the SRP variables to be used for next challenge execution.
- USER\_PASSWORD\_AUTH will take in USERNAME and PASSWORD and return the next challenge or tokens.

#### Amazon Cognito Identity Provider API Reference Request Parameters

Valid values include:

- USER\_SRP\_AUTH: Authentication flow for the Secure Remote Password (SRP) protocol.
- REFRESH\_TOKEN\_AUTH/REFRESH\_TOKEN: Authentication flow for refreshing the access token and ID token by supplying a valid refresh token.
- CUSTOM AUTH: Custom authentication flow.
- ADMIN\_NO\_SRP\_AUTH: Non-SRP authentication flow; you can pass in the USERNAME and PASSWORD directly if the flow is enabled for calling the app client.
- USER\_PASSWORD\_AUTH: Non-SRP authentication flow; USERNAME and PASSWORD are passed directly. If a user migration Lambda trigger is set, this flow will invoke the user migration Lambda if the USERNAME is not found in the user pool.

Type: String

Valid Values: USER\_SRP\_AUTH | REFRESH\_TOKEN\_AUTH | REFRESH\_TOKEN | CUSTOM\_AUTH | ADMIN\_NO\_SRP\_AUTH | USER\_PASSWORD\_AUTH

Required: Yes

#### AuthParameters (p. 38)

The authentication parameters. These are inputs corresponding to the AuthFlow that you are invoking. The required values depend on the value of AuthFlow:

- For USER\_SRP\_AUTH: USERNAME (required), SRP\_A (required), SECRET\_HASH (required if the app client is configured with a client secret), DEVICE\_KEY
- For REFRESH\_TOKEN\_AUTH/REFRESH\_TOKEN: REFRESH\_TOKEN (required), SECRET\_HASH (required if the app client is configured with a client secret), DEVICE\_KEY
- For ADMIN\_NO\_SRP\_AUTH: USERNAME (required), SECRET\_HASH (if app client is configured with client secret), PASSWORD (required), DEVICE\_KEY
- For CUSTOM\_AUTH: USERNAME (required), SECRET\_HASH (if app client is configured with client secret), DEVICE\_KEY

Type: String to string map

Required: No ClientId (p. 38)

The app client ID.

Type: String

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

Pattern: [\w+]+

Required: Yes

#### ClientMetadata (p. 38)

This is a random key-value pair map which can contain any key and will be passed to your PreAuthentication Lambda trigger as-is. It can be used to implement additional validations around authentication.

Type: String to string map

Required: No

### ContextData (p. 38)

Contextual data such as the user's device fingerprint, IP address, or location used for evaluating the risk of an unexpected event by Amazon Cognito advanced security.

```
Type: ContextDataType (p. 324) object

Required: No

UserPoolId (p. 38)

The ID of the Amazon Cognito user pool.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern: [\w-]+_[0-9a-zA-Z]+

Required: Yes
```

# Response Syntax

```
"AuthenticationResult": {
     "AccessToken": "string",
     "ExpiresIn": number,
      "IdToken": "string",
      "NewDeviceMetadata": {
         "DeviceGroupKey": "string",
         "DeviceKey": "string"
      "RefreshToken": "string",
      "TokenType": "string"
   },
   "ChallengeName": "string",
   "ChallengeParameters": {
      "string" : "string"
   },
   "Session": "string"
}
```

### **Response Elements**

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

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

### AuthenticationResult (p. 40)

The result of the authentication response. This is only returned if the caller does not need to pass another challenge. If the caller does need to pass another challenge before it gets tokens, ChallengeName, ChallengeParameters, and Session are returned.

Type: AuthenticationResultType (p. 316) object

### ChallengeName (p. 40)

The name of the challenge which you are responding to with this call. This is returned to you in the AdminInitiateAuth response if you need to pass another challenge.

- MFA\_SETUP: If MFA is required, users who do not have at least one of the MFA methods set up are
  presented with an MFA\_SETUP challenge. The user must set up at least one MFA type to continue
  to authenticate.
- SELECT\_MFA\_TYPE: Selects the MFA type. Valid MFA options are SMS\_MFA for text SMS MFA, and SOFTWARE\_TOKEN\_MFA for TOTP software token MFA.

### Amazon Cognito Identity Provider API Reference Errors

- SMS MFA: Next challenge is to supply an SMS MFA CODE, delivered via SMS.
- PASSWORD\_VERIFIER: Next challenge is to supply PASSWORD\_CLAIM\_SIGNATURE,
   PASSWORD CLAIM SECRET BLOCK, and TIMESTAMP after the client-side SRP calculations.
- CUSTOM\_CHALLENGE: This is returned if your custom authentication flow determines that the user should pass another challenge before tokens are issued.
- DEVICE\_SRP\_AUTH: If device tracking was enabled on your user pool and the previous challenges were passed, this challenge is returned so that Amazon Cognito can start tracking this device.
- DEVICE PASSWORD VERIFIER: Similar to PASSWORD VERIFIER, but for devices only.
- ADMIN\_NO\_SRP\_AUTH: This is returned if you need to authenticate with USERNAME and PASSWORD directly. An app client must be enabled to use this flow.
- NEW\_PASSWORD\_REQUIRED: For users which are required to change their passwords after successful first login. This challenge should be passed with NEW\_PASSWORD and any other required attributes.

Type: String

```
Valid Values: SMS_MFA | SOFTWARE_TOKEN_MFA | SELECT_MFA_TYPE |
MFA_SETUP | PASSWORD_VERIFIER | CUSTOM_CHALLENGE | DEVICE_SRP_AUTH |
DEVICE_PASSWORD_VERIFIER | ADMIN_NO_SRP_AUTH | NEW_PASSWORD_REQUIRED
```

#### ChallengeParameters (p. 40)

The challenge parameters. These are returned to you in the AdminInitiateAuth response if you need to pass another challenge. The responses in this parameter should be used to compute inputs to the next call (AdminRespondToAuthChallenge).

All challenges require USERNAME and SECRET\_HASH (if applicable).

The value of the USER\_ID\_FOR\_SRP attribute will be the user's actual username, not an alias (such as email address or phone number), even if you specified an alias in your call to AdminInitiateAuth. This is because, in the AdminRespondToAuthChallenge API ChallengeResponses, the USERNAME attribute cannot be an alias.

Type: String to string map

### Session (p. 40)

The session which should be passed both ways in challenge-response calls to the service. If AdminInitiateAuth or AdminRespondToAuthChallenge API call determines that the caller needs to go through another challenge, they return a session with other challenge parameters. This session should be passed as it is to the next AdminRespondToAuthChallenge API call.

Type: String

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

### InvalidLambdaResponseException

This exception is thrown when the Amazon Cognito service encounters an invalid AWS Lambda response.

#### Amazon Cognito Identity Provider API Reference Errors

HTTP Status Code: 400 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### InvalidSmsRoleAccessPolicyException

This exception is returned when the role provided for SMS configuration does not have permission to publish using Amazon SNS.

HTTP Status Code: 400

#### Invalid Sms Role Trust Relation ship Exception

This exception is thrown when the trust relationship is invalid for the role provided for SMS configuration. This can happen if you do not trust **cognito-idp.amazonaws.com** or the external ID provided in the role does not match what is provided in the SMS configuration for the user pool.

HTTP Status Code: 400

#### InvalidUserPoolConfigurationException

This exception is thrown when the user pool configuration is invalid.

HTTP Status Code: 400

#### MFAMethodNotFoundException

This exception is thrown when Amazon Cognito cannot find a multi-factor authentication (MFA) method.

HTTP Status Code: 400

### NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

#### PasswordResetRequiredException

This exception is thrown when a password reset is required.

HTTP Status Code: 400

### ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

#### TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

#### UnexpectedLambdaException

This exception is thrown when the Amazon Cognito service encounters an unexpected exception with the AWS Lambda service.

HTTP Status Code: 400

### UserLambdaValidationException

This exception is thrown when the Amazon Cognito service encounters a user validation exception with the AWS Lambda service.

HTTP Status Code: 400
UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

## AdminLinkProviderForUser

Links an existing user account in a user pool (DestinationUser) to an identity from an external identity provider (SourceUser) based on a specified attribute name and value from the external identity provider. This allows you to create a link from the existing user account to an external federated user identity that has not yet been used to sign in, so that the federated user identity can be used to sign in as the existing user account.

For example, if there is an existing user with a username and password, this API links that user to a federated user identity, so that when the federated user identity is used, the user signs in as the existing user account.

#### **Important**

Because this API allows a user with an external federated identity to sign in as an existing user in the user pool, it is critical that it only be used with external identity providers and provider attributes that have been trusted by the application owner.

See also AdminDisableProviderForUser (p. 22).

This action is enabled only for admin access and requires developer credentials.

## Request Syntax

```
{
    "DestinationUser": {
        "ProviderAttributeName": "string",
        "ProviderAttributeValue": "string",
        "ProviderName": "string"
},
    "SourceUser": {
        "ProviderAttributeName": "string",
        "ProviderAttributeValue": "string",
        "ProviderName": "string"
        "ProviderName": "string"
},
    "UserPoolId": "string"
}
```

### **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

### DestinationUser (p. 44)

The existing user in the user pool to be linked to the external identity provider user account. Can be a native (Username + Password) Cognito User Pools user or a federated user (for example, a SAML or Facebook user). If the user doesn't exist, an exception is thrown. This is the user that is returned when the new user (with the linked identity provider attribute) signs in.

For a native username + password user, the ProviderAttributeValue for the DestinationUser should be the username in the user pool. For a federated user, it should be the provider-specific user\_id.

The ProviderAttributeName of the DestinationUser is ignored.

The ProviderName should be set to Cognito for users in Cognito user pools.

#### Amazon Cognito Identity Provider API Reference Response Elements

Type: ProviderUserIdentifierType (p. 353) object

Required: Yes **SourceUser (p. 44)** 

An external identity provider account for a user who does not currently exist yet in the user pool. This user must be a federated user (for example, a SAML or Facebook user), not another native user.

If the SourceUser is a federated social identity provider user (Facebook, Google, or Login with Amazon), you must set the ProviderAttributeName to Cognito\_Subject. For social identity providers, the ProviderName will be Facebook, Google, or LoginWithAmazon, and Cognito will automatically parse the Facebook, Google, and Login with Amazon tokens for id, sub, and user\_id, respectively. The ProviderAttributeValue for the user must be the same value as the id, sub, or user id value found in the social identity provider token.

For SAML, the ProviderAttributeName can be any value that matches a claim in the SAML assertion. If you wish to link SAML users based on the subject of the SAML assertion, you should map the subject to a claim through the SAML identity provider and submit that claim name as the ProviderAttributeName. If you set ProviderAttributeName to Cognito\_Subject, Cognito will automatically parse the default unique identifier found in the subject from the SAML token.

Type: ProviderUserIdentifierType (p. 353) object

Required: Yes
UserPoolId (p. 44)

The user pool ID for the user pool.

Type: String
Required: Yes

# **Response Elements**

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### AliasExistsException

This exception is thrown when a user tries to confirm the account with an email or phone number that has already been supplied as an alias from a different account. This exception tells user that an account with this email or phone already exists.

HTTP Status Code: 400 InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500
InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

#### Amazon Cognito Identity Provider API Reference See Also

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# **AdminListDevices**

Lists devices, as an administrator.

Requires developer credentials.

# **Request Syntax**

```
{
  "Limit": number,
  "PaginationToken": "string",
  "Username": "string",
  "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Limit (p. 47)
   The limit of the devices request.
   Type: Integer
   Valid Range: Minimum value of 0. Maximum value of 60.
   Required: No
PaginationToken (p. 47)
   The pagination token.
   Type: String
   Length Constraints: Minimum length of 1.
   Pattern: [\S]+
   Required: No
Username (p. 47)
   The user name.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 128.
   Pattern: [\p{L}\p{M}\p{S}\p{N}\p{P}]+
   Required: Yes
UserPoolId (p. 47)
   The user pool ID.
   Type: String
```

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

## Response Syntax

# **Response Elements**

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

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

```
Devices (p. 48)
```

The devices in the list of devices response.

Type: Array of DeviceType (p. 328) objects

### PaginationToken (p. 48)

The pagination token.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### Amazon Cognito Identity Provider API Reference See Also

### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

### InvalidUserPoolConfigurationException

This exception is thrown when the user pool configuration is invalid.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# AdminListGroupsForUser

Lists the groups that the user belongs to.

Requires developer credentials.

# **Request Syntax**

```
{
  "Limit": number,
  "NextToken": "string",
  "Username": "string",
  "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Limit (p. 50)
```

The limit of the request to list groups.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 60.

```
Required: No NextToken (p. 50)
```

An identifier that was returned from the previous call to this operation, which can be used to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1.

```
Pattern: [\S]+

Required: No

Username (p. 50)
```

The username for the user.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: Yes
UserPoolId (p. 50)

The user pool ID for the user pool.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

## Response Syntax

# **Response Elements**

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

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

```
Groups (p. 51)
```

The groups that the user belongs to.

Type: Array of GroupType (p. 335) objects

NextToken (p. 51)

An identifier that was returned from the previous call to this operation, which can be used to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### Amazon Cognito Identity Provider API Reference See Also

### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# AdminListUserAuthEvents

Lists a history of user activity and any risks detected as part of Amazon Cognito advanced security.

# Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string",
   "Username": "string",
   "UserPoolId": "string"
}
```

### **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
MaxResults (p. 53)
   The maximum number of authentication events to return.
   Type: Integer
   Valid Range: Minimum value of 0. Maximum value of 60.
   Required: No
NextToken (p. 53)
   A pagination token.
   Type: String
   Length Constraints: Minimum length of 1.
   Pattern: [\S]+
   Required: No
Username (p. 53)
   The user pool username or an alias.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 128.
   Pattern: [\p{L}\p{M}\p{S}\p{N}\p{P}]+
   Required: Yes
UserPoolId (p. 53)
   The user pool ID.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 55.
```

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

## Response Syntax

```
"AuthEvents": [
      "ChallengeResponses": [
            "ChallengeName": "string",
            "ChallengeResponse": "string"
         }
      "CreationDate": number,
      "EventContextData": {
        "City": "string",
         "Country": "string",
         "DeviceName": "string",
         "IpAddress": "string",
         "Timezone": "string"
      "EventFeedback": {
         "FeedbackDate": number,
         "FeedbackValue": "string",
         "Provider": "string"
      "EventId": "string",
      "EventResponse": "string",
      "EventRisk": {
         "RiskDecision": "string",
         "RiskLevel": "string"
      "EventType": "string"
"NextToken": "string"
```

# **Response Elements**

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

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

```
AuthEvents (p. 54)
```

The response object. It includes the EventID, EventType, CreationDate, EventRisk, and EventResponse.

Type: Array of AuthEventType (p. 318) objects

#### NextToken (p. 54)

A pagination token.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400
TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### UserPoolAddOnNotEnabledException

This exception is thrown when user pool add-ons are not enabled.

HTTP Status Code: 400

### See Also

- · AWS Command Line Interface
- AWS SDK for .NET
- · AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python

•	AWS SDK for Ruby V2

# AdminRemoveUserFromGroup

Removes the specified user from the specified group.

Requires developer credentials.

## Request Syntax

```
"GroupName": "string",
"Username": "string",
"UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
GroupName (p. 57)
   The group name.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 128.
   Pattern: [\p{L}\p{M}\p{S}\p{N}\p{P}]+
   Required: Yes
Username (p. 57)
   The username for the user.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 128.
   Pattern: [\p{L}\p{M}\p{S}\p{N}\p{P}]+
   Required: Yes
UserPoolId (p. 57)
   The user pool ID for the user pool.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 55.
   Pattern: [\w-]+_[0-9a-zA-Z]+
   Required: Yes
```

# **Response Elements**

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

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400
UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- · AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

## AdminResetUserPassword

Resets the specified user's password in a user pool as an administrator. Works on any user.

When a developer calls this API, the current password is invalidated, so it must be changed. If a user tries to sign in after the API is called, the app will get a PasswordResetRequiredException exception back and should direct the user down the flow to reset the password, which is the same as the forgot password flow. In addition, if the user pool has phone verification selected and a verified phone number exists for the user, or if email verification is selected and a verified email exists for the user, calling this API will also result in sending a message to the end user with the code to change their password.

Requires developer credentials.

## Request Syntax

```
{
   "Username": "string",
   "UserPoolId": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Username (p. 59)
```

The user name of the user whose password you wish to reset.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: Yes

UserPoolId (p. 59)

The user pool ID for the user pool where you want to reset the user's password.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

## **Response Elements**

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

## **Frrors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidEmailRoleAccessPolicyException

This exception is thrown when Amazon Cognito is not allowed to use your email identity. HTTP status code: 400.

HTTP Status Code: 400

### Invalid Lamb da Response Exception

This exception is thrown when the Amazon Cognito service encounters an invalid AWS Lambda response.

HTTP Status Code: 400

### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### InvalidSmsRoleAccessPolicyException

This exception is returned when the role provided for SMS configuration does not have permission to publish using Amazon SNS.

HTTP Status Code: 400

#### InvalidSmsRoleTrustRelationshipException

This exception is thrown when the trust relationship is invalid for the role provided for SMS configuration. This can happen if you do not trust **cognito-idp.amazonaws.com** or the external ID provided in the role does not match what is provided in the SMS configuration for the user pool.

HTTP Status Code: 400

#### LimitExceededException

This exception is thrown when a user exceeds the limit for a requested AWS resource.

HTTP Status Code: 400

#### NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

#### ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

### TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

# HTTP Status Code: 400 UnexpectedLambdaException

This exception is thrown when the Amazon Cognito service encounters an unexpected exception with the AWS Lambda service.

HTTP Status Code: 400

### UserLambdaValidationException

This exception is thrown when the Amazon Cognito service encounters a user validation exception with the AWS Lambda service.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# AdminRespondToAuthChallenge

Responds to an authentication challenge, as an administrator.

Requires developer credentials.

## Request Syntax

```
"AnalyticsMetadata": {
  "AnalyticsEndpointId": "string"
"ChallengeName": "string",
"ChallengeResponses": {
   "string" : "string"
"ClientId": "string",
"ContextData": {
   "EncodedData": "string",
   "HttpHeaders": [
         "headerName": "string",
         "headerValue": "string"
  ],
  "IpAddress": "string",
   "ServerName": "string",
   "ServerPath": "string"
},
"Session": "string",
"UserPoolId": "string"
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

### AnalyticsMetadata (p. 62)

The analytics metadata for collecting Amazon Pinpoint metrics for AdminRespondToAuthChallenge calls.

Type: AnalyticsMetadataType (p. 314) object

Required: No

### ChallengeName (p. 62)

The challenge name. For more information, see AdminInitiateAuth (p. 38).

```
Type: String
```

```
Valid Values: SMS_MFA | SOFTWARE_TOKEN_MFA | SELECT_MFA_TYPE |
MFA_SETUP | PASSWORD_VERIFIER | CUSTOM_CHALLENGE | DEVICE_SRP_AUTH |
DEVICE_PASSWORD_VERIFIER | ADMIN_NO_SRP_AUTH | NEW_PASSWORD_REQUIRED
```

Required: Yes

### Amazon Cognito Identity Provider API Reference Request Parameters

#### ChallengeResponses (p. 62)

The challenge responses. These are inputs corresponding to the value of ChallengeName, for example:

- SMS\_MFA: SMS\_MFA\_CODE, USERNAME, SECRET\_HASH (if app client is configured with client secret).
- PASSWORD\_VERIFIER: PASSWORD\_CLAIM\_SIGNATURE, PASSWORD\_CLAIM\_SECRET\_BLOCK, TIMESTAMP, USERNAME, SECRET\_HASH (if app client is configured with client secret).
- ADMIN\_NO\_SRP\_AUTH: PASSWORD, USERNAME, SECRET\_HASH (if app client is configured with client secret).
- NEW\_PASSWORD\_REQUIRED: NEW\_PASSWORD, any other required attributes, USERNAME, SECRET\_HASH (if app client is configured with client secret).

The value of the USERNAME attribute must be the user's actual username, not an alias (such as email address or phone number). To make this easier, the AdminInitiateAuth response includes the actual username value in the USERNAMEUSER\_ID\_FOR\_SRP attribute, even if you specified an alias in your call to AdminInitiateAuth.

Type: String to string map

Required: No ClientId (p. 62)

The app client ID.

Type: String

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

Pattern: [\w+]+

Required: Yes
ContextData (p. 62)

Contextual data such as the user's device fingerprint, IP address, or location used for evaluating the risk of an unexpected event by Amazon Cognito advanced security.

Type: ContextDataType (p. 324) object

Required: No Session (p. 62)

The session which should be passed both ways in challenge-response calls to the service. If InitiateAuth or RespondToAuthChallenge API call determines that the caller needs to go through another challenge, they return a session with other challenge parameters. This session should be passed as it is to the next RespondToAuthChallenge API call.

Type: String

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

Required: No UserPoolId (p. 62)

The ID of the Amazon Cognito user pool.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

```
Pattern: [\w-]+_[0-9a-zA-Z]+
Required: Yes
```

## Response Syntax

```
"AuthenticationResult": {
    "AccessToken": "string",
    "ExpiresIn": number,
    "IdToken": "string",
    "NewDeviceMetadata": {
        "DeviceGroupKey": "string",
        "DeviceKey": "string"
     },
     "RefreshToken": "string",
     "TokenType": "string"
},
    "ChallengeName": "string",
    "ChallengeParameters": {
        "string" : "string"
},
    "Session": "string"
}
```

## **Response Elements**

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

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

### AuthenticationResult (p. 64)

The result returned by the server in response to the authentication request.

```
Type: AuthenticationResultType (p. 316) object
```

### ChallengeName (p. 64)

The name of the challenge. For more information, see AdminInitiateAuth (p. 38).

```
Type: String
```

```
Valid Values: SMS_MFA | SOFTWARE_TOKEN_MFA | SELECT_MFA_TYPE |
MFA_SETUP | PASSWORD_VERIFIER | CUSTOM_CHALLENGE | DEVICE_SRP_AUTH |
DEVICE_PASSWORD_VERIFIER | ADMIN_NO_SRP_AUTH | NEW_PASSWORD_REQUIRED
```

### ChallengeParameters (p. 64)

The challenge parameters. For more information, see AdminInitiateAuth (p. 38).

Type: String to string map

### Session (p. 64)

The session which should be passed both ways in challenge-response calls to the service. If the InitiateAuth (p. 201) or RespondToAuthChallenge (p. 238) API call determines that the caller needs to go through another challenge, they return a session with other challenge parameters. This session should be passed as it is to the next RespondToAuthChallenge API call.

Type: String

### Amazon Cognito Identity Provider API Reference Errors

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

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### AliasExistsException

This exception is thrown when a user tries to confirm the account with an email or phone number that has already been supplied as an alias from a different account. This exception tells user that an account with this email or phone already exists.

HTTP Status Code: 400 CodeMismatchException

This exception is thrown if the provided code does not match what the server was expecting.

HTTP Status Code: 400 ExpiredCodeException

This exception is thrown if a code has expired.

HTTP Status Code: 400
InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

Invalid Lamb da Response Exception

This exception is thrown when the Amazon Cognito service encounters an invalid AWS Lambda response.

HTTP Status Code: 400
InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 InvalidPasswordException

This exception is thrown when the Amazon Cognito service encounters an invalid password.

HTTP Status Code: 400

InvalidSmsRoleAccessPolicyException

This exception is returned when the role provided for SMS configuration does not have permission to publish using Amazon SNS.

HTTP Status Code: 400

InvalidSmsRoleTrustRelationshipException

This exception is thrown when the trust relationship is invalid for the role provided for SMS configuration. This can happen if you do not trust **cognito-idp.amazonaws.com** or the external ID provided in the role does not match what is provided in the SMS configuration for the user pool.

HTTP Status Code: 400

### Amazon Cognito Identity Provider API Reference Errors

### Invalid User Pool Configuration Exception

This exception is thrown when the user pool configuration is invalid.

HTTP Status Code: 400

### MFAMethodNotFoundException

This exception is thrown when Amazon Cognito cannot find a multi-factor authentication (MFA) method.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

### ${\bf Password Reset Required Exception}$

This exception is thrown when a password reset is required.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

### SoftwareTokenMFANotFoundException

This exception is thrown when the software token TOTP multi-factor authentication (MFA) is not enabled for the user pool.

HTTP Status Code: 400
TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400
UnexpectedLambdaException

This exception is thrown when the Amazon Cognito service encounters an unexpected exception with the AWS Lambda service.

HTTP Status Code: 400

### UserLambdaValidationException

This exception is thrown when the Amazon Cognito service encounters a user validation exception with the AWS Lambda service.

HTTP Status Code: 400

#### UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400
UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

# See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# AdminSetUserMFAPreference

Sets the user's multi-factor authentication (MFA) preference.

## Request Syntax

```
{
    "SMSMfaSettings": {
        "Enabled": boolean,
        "PreferredMfa": boolean
},
    "SoftwareTokenMfaSettings": {
        "Enabled": boolean,
        "PreferredMfa": boolean
},
    "Username": "string",
    "UserPoolId": "string"
}
```

## Request Parameters

SMSMfaSettings (p. 68)

Type: String

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
The SMS text message MFA settings.

Type: SMSMfaSettingsType (p. 364) object
Required: No
SoftwareTokenMfaSettings (p. 68)

The time-based one-time password software token MFA settings.

Type: SoftwareTokenMfaSettingsType (p. 366) object
Required: No
Username (p. 68)

The user pool username or alias.

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

Pattern: [\p{L}\p{M}\p{S}\p{N}\p{P}]+

Required: Yes
UserPoolId (p. 68)

The user pool ID.
```

Length Constraints: Minimum length of 1. Maximum length of 55.

### Amazon Cognito Identity Provider API Reference Response Elements

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# **Response Elements**

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

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400
NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

 ${\bf Password Reset Required Exception}$ 

This exception is thrown when a password reset is required.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400
UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400
UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

# See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- · AWS SDK for C++

- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# AdminSetUserSettings

Sets all the user settings for a specified user name. Works on any user.

Requires developer credentials.

## Request Syntax

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
MFAOptions (p. 71)
```

Specifies the options for MFA (e.g., email or phone number).

Type: Array of MFAOptionType (p. 344) objects

Required: Yes

### Username (p. 71)

The user name of the user for whom you wish to set user settings.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: Yes

### UserPoolId (p. 71)

The user pool ID for the user pool where you want to set the user's settings, such as MFA options.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+[0-9a-zA-Z]+$ 

Required: Yes

# **Response Elements**

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

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

### NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

### UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- · AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# AdminUpdateAuthEventFeedback

Provides feedback for an authentication event as to whether it was from a valid user. This feedback is used for improving the risk evaluation decision for the user pool as part of Amazon Cognito advanced security.

# Request Syntax

```
{
    "EventId": "string",
    "FeedbackValue": "string",
    "Username": "string",
    "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
EventId (p. 73)
   The authentication event ID.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 50.
   Pattern: [\w+-]+
   Required: Yes
FeedbackValue (p. 73)
   The authentication event feedback value.
   Type: String
   Valid Values: Valid | Invalid
   Required: Yes
Username (p. 73)
   The user pool username.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 128.
   Pattern: [\p{L}\p{M}\p{S}\p{N}\p{P}]+
   Required: Yes
UserPoolId (p. 73)
   The user pool ID.
```

### Amazon Cognito Identity Provider API Reference Response Elements

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

## **Response Elements**

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

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400
NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

UserPoolAddOnNotEnabledException

This exception is thrown when user pool add-ons are not enabled.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# AdminUpdateDeviceStatus

Updates the device status as an administrator.

Requires developer credentials.

# Request Syntax

```
{
   "DeviceKey": "string",
   "DeviceRememberedStatus": "string",
   "Username": "string",
   "UserPoolId": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
DeviceKey (p. 76)
   The device key.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 55.
   Pattern: [\w-]+_[0-9a-f-]+
   Required: Yes
DeviceRememberedStatus (p. 76)
   The status indicating whether a device has been remembered or not.
   Type: String
   Valid Values: remembered | not_remembered
   Required: No
Username (p. 76)
   The user name.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 128.
   Pattern: [\p{L}\p{M}\p{S}\p{N}\p{P}]+
   Required: Yes
UserPoolId (p. 76)
   The user pool ID.
   Type: String
```

### Amazon Cognito Identity Provider API Reference Response Elements

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# **Response Elements**

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

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

### InvalidUserPoolConfigurationException

This exception is thrown when the user pool configuration is invalid.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

## See Also

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

AWS Command Line Interface

- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# AdminUpdateUserAttributes

Updates the specified user's attributes, including developer attributes, as an administrator. Works on any user.

For custom attributes, you must prepend the custom: prefix to the attribute name.

In addition to updating user attributes, this API can also be used to mark phone and email as verified.

Requires developer credentials.

## **Request Syntax**

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
UserAttributes (p. 79)
```

An array of name-value pairs representing user attributes.

For custom attributes, you must prepend the custom: prefix to the attribute name.

Type: Array of AttributeType (p. 315) objects

Required: Yes

Username (p. 79)

The user name of the user for whom you want to update user attributes.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: Yes UserPoolId (p. 79)

The user pool ID for the user pool where you want to update user attributes.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

### Amazon Cognito Identity Provider API Reference Response Elements

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

## Response Elements

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

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### AliasExistsException

This exception is thrown when a user tries to confirm the account with an email or phone number that has already been supplied as an alias from a different account. This exception tells user that an account with this email or phone already exists.

HTTP Status Code: 400

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

### InvalidLambdaResponseException

This exception is thrown when the Amazon Cognito service encounters an invalid AWS Lambda response.

HTTP Status Code: 400 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

### ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### UnexpectedLambdaException

This exception is thrown when the Amazon Cognito service encounters an unexpected exception with the AWS Lambda service.

HTTP Status Code: 400

### UserLambdaValidationException

This exception is thrown when the Amazon Cognito service encounters a user validation exception with the AWS Lambda service.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

# See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# AdminUserGlobalSignOut

Signs out users from all devices, as an administrator.

Requires developer credentials.

## Request Syntax

```
{
    "Username": "string",
    "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Username (p. 82)
```

The user name.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: Yes

### UserPoolId (p. 82)

The user pool ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# **Response Elements**

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

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# AssociateSoftwareToken

Returns a unique generated shared secret key code for the user account. The request takes an access token or a session string, but not both.

## Request Syntax

```
{
  "AccessToken": "string",
  "Session": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

### AccessToken (p. 84)

The access token.

Type: String

Pattern: [A-Za-z0-9-\_=.]+

Required: No Session (p. 84)

The session which should be passed both ways in challenge-response calls to the service. This allows authentication of the user as part of the MFA setup process.

Type: String

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

Required: No

# Response Syntax

```
{
   "SecretCode": "string",
   "Session": "string"
}
```

# Response Elements

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

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

### SecretCode (p. 84)

A unique generated shared secret code that is used in the TOTP algorithm to generate a one time code.

### Amazon Cognito Identity Provider API Reference Errors

Type: String

Length Constraints: Minimum length of 16.

Pattern: [A-Za-z0-9]+

Session (p. 84)

The session which should be passed both ways in challenge-response calls to the service. This allows authentication of the user as part of the MFA setup process.

Type: String

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

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

### NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

### ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

### SoftwareTokenMFANotFoundException

This exception is thrown when the software token TOTP multi-factor authentication (MFA) is not enabled for the user pool.

HTTP Status Code: 400

## See Also

- · AWS Command Line Interface
- · AWS SDK for .NET
- · AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for JavaScript

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# ChangePassword

Changes the password for a specified user in a user pool.

# Request Syntax

```
{
    "AccessToken": "string",
    "PreviousPassword": "string",
    "ProposedPassword": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
AccessToken (p. 87)
   The access token.
   Type: String
   Pattern: [A-Za-z0-9-_=.]+
   Required: Yes
PreviousPassword (p. 87)
   The old password.
   Type: String
   Length Constraints: Minimum length of 6. Maximum length of 256.
   Pattern: [\S]+
   Required: Yes
ProposedPassword (p. 87)
   The new password.
   Type: String
   Length Constraints: Minimum length of 6. Maximum length of 256.
   Pattern: [\S]+
   Required: Yes
```

## **Response Elements**

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

## **Frrors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 InvalidPasswordException

This exception is thrown when the Amazon Cognito service encounters an invalid password.

HTTP Status Code: 400 LimitExceededException

This exception is thrown when a user exceeds the limit for a requested AWS resource.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

PasswordResetRequiredException

This exception is thrown when a password reset is required.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400
UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# **ConfirmDevice**

Confirms tracking of the device. This API call is the call that begins device tracking.

## Request Syntax

```
{
   "AccessToken": "string",
   "DeviceKey": "string",
   "DeviceName": "string",
   "DeviceSecretVerifierConfig": {
        "PasswordVerifier": "string",
        "Salt": "string"
   }
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
AccessToken (p. 90)
    The access token.
    Type: String
    Pattern: [A-Za-z0-9-_=.]+
    Required: Yes
DeviceKey (p. 90)
    The device key.
    Type: String
    Length Constraints: Minimum length of 1. Maximum length of 55.
    Pattern: [\w-]+_[0-9a-f-]+
    Required: Yes
DeviceName (p. 90)
    The device name.
    Type: String
    Length Constraints: Minimum length of 1. Maximum length of 1024.
    Required: No
DeviceSecretVerifierConfig (p. 90)
    The configuration of the device secret verifier.
    Type: DeviceSecretVerifierConfigType (p. 327) object
```

Required: No

## Response Syntax

```
{
    "UserConfirmationNecessary": boolean
}
```

## **Response Elements**

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

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

### **UserConfirmationNecessary (p. 91)**

Indicates whether the user confirmation is necessary to confirm the device response.

Type: Boolean

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

### InvalidLambdaResponseException

This exception is thrown when the Amazon Cognito service encounters an invalid AWS Lambda response.

HTTP Status Code: 400 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 InvalidPasswordException

This exception is thrown when the Amazon Cognito service encounters an invalid password.

HTTP Status Code: 400

### InvalidUserPoolConfigurationException

This exception is thrown when the user pool configuration is invalid.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

#### PasswordResetRequiredException

This exception is thrown when a password reset is required.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400 UsernameExistsException

This exception is thrown when Amazon Cognito encounters a user name that already exists in the user pool.

HTTP Status Code: 400
UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# ConfirmForgotPassword

Allows a user to enter a confirmation code to reset a forgotten password.

## Request Syntax

```
{
    "AnalyticsMetadata": {
        "AnalyticsEndpointId": "string"
},
    "ClientId": "string",
    "ConfirmationCode": "string",
    "Password": "string",
    "SecretHash": "string",
    "UserContextData": {
        "EncodedData": "string"
},
    "Username": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
AnalyticsMetadata (p. 93)
```

The Amazon Pinpoint analytics metadata for collecting metrics for ConfirmForgotPassword calls.

Type: AnalyticsMetadataType (p. 314) object

Required: No

### ClientId (p. 93)

The app client ID of the app associated with the user pool.

Type: String

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

Pattern: [\w+]+

Required: Yes

#### ConfirmationCode (p. 93)

The confirmation code sent by a user's request to retrieve a forgotten password. For more information, see ForgotPassword (p. 169)

Type: String

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

Pattern: [\S]+

Required: Yes

#### Amazon Cognito Identity Provider API Reference Response Elements

#### Password (p. 93)

The password sent by a user's request to retrieve a forgotten password.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 256.

Pattern: [\S]+

Required: Yes

SecretHash (p. 93)

A keyed-hash message authentication code (HMAC) calculated using the secret key of a user pool client and username plus the client ID in the message.

Type: String

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

Pattern:  $[\w+=/]+$ 

Required: No

UserContextData (p. 93)

Contextual data such as the user's device fingerprint, IP address, or location used for evaluating the risk of an unexpected event by Amazon Cognito advanced security.

Type: UserContextDataType (p. 370) object

Required: No Username (p. 93)

The user name of the user for whom you want to enter a code to retrieve a forgotten password.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: Yes

# **Response Elements**

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### CodeMismatchException

This exception is thrown if the provided code does not match what the server was expecting.

HTTP Status Code: 400

#### ExpiredCodeException

This exception is thrown if a code has expired.

#### Amazon Cognito Identity Provider API Reference Errors

HTTP Status Code: 400

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

### Invalid Lamb da Response Exception

This exception is thrown when the Amazon Cognito service encounters an invalid AWS Lambda response.

HTTP Status Code: 400

#### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 InvalidPasswordException

This exception is thrown when the Amazon Cognito service encounters an invalid password.

HTTP Status Code: 400

### LimitExceededException

This exception is thrown when a user exceeds the limit for a requested AWS resource.

HTTP Status Code: 400

### NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

#### TooManyFailedAttemptsException

This exception is thrown when the user has made too many failed attempts for a given action (e.g., sign in).

HTTP Status Code: 400

### TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

#### UnexpectedLambdaException

This exception is thrown when the Amazon Cognito service encounters an unexpected exception with the AWS Lambda service.

HTTP Status Code: 400

#### UserLambdaValidationException

This exception is thrown when the Amazon Cognito service encounters a user validation exception with the AWS Lambda service.

# HTTP Status Code: 400 UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# ConfirmSignUp

Confirms registration of a user and handles the existing alias from a previous user.

# Request Syntax

```
{
    "AnalyticsMetadata": {
        "AnalyticsEndpointId": "string"
},
    "ClientId": "string",
    "ConfirmationCode": "string",
    "ForceAliasCreation": boolean,
    "SecretHash": "string",
    "UserContextData": {
        "EncodedData": "string"
},
    "Username": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
AnalyticsMetadata (p. 97)
```

The Amazon Pinpoint analytics metadata for collecting metrics for ConfirmSignUp calls.

```
Type: AnalyticsMetadataType (p. 314) object
```

Required: No

### ClientId (p. 97)

The ID of the app client associated with the user pool.

Type: String

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

Pattern: [\w+]+

Required: Yes

#### ConfirmationCode (p. 97)

The confirmation code sent by a user's request to confirm registration.

Type: String

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

Pattern: [\S]+

Required: Yes

#### Amazon Cognito Identity Provider API Reference Response Elements

#### ForceAliasCreation (p. 97)

Boolean to be specified to force user confirmation irrespective of existing alias. By default set to False. If this parameter is set to True and the phone number/email used for sign up confirmation already exists as an alias with a different user, the API call will migrate the alias from the previous user to the newly created user being confirmed. If set to False, the API will throw an AliasExistsException error.

Type: Boolean Required: No

SecretHash (p. 97)

A keyed-hash message authentication code (HMAC) calculated using the secret key of a user pool client and username plus the client ID in the message.

Type: String

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

Pattern:  $[\w+=/]+$ 

Required: No

#### UserContextData (p. 97)

Contextual data such as the user's device fingerprint, IP address, or location used for evaluating the risk of an unexpected event by Amazon Cognito advanced security.

Type: UserContextDataType (p. 370) object

Required: No Username (p. 97)

The user name of the user whose registration you wish to confirm.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: Yes

# **Response Elements**

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### AliasExistsException

This exception is thrown when a user tries to confirm the account with an email or phone number that has already been supplied as an alias from a different account. This exception tells user that an account with this email or phone already exists.

HTTP Status Code: 400

#### Amazon Cognito Identity Provider API Reference Errors

#### CodeMismatchException

This exception is thrown if the provided code does not match what the server was expecting.

HTTP Status Code: 400

### ExpiredCodeException

This exception is thrown if a code has expired.

HTTP Status Code: 400

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidLambdaResponseException

This exception is thrown when the Amazon Cognito service encounters an invalid AWS Lambda response.

HTTP Status Code: 400

### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### LimitExceededException

This exception is thrown when a user exceeds the limit for a requested AWS resource.

HTTP Status Code: 400

### NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

### ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

### Too Many Failed Attempts Exception

This exception is thrown when the user has made too many failed attempts for a given action (e.g., sign in).

HTTP Status Code: 400

### TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### UnexpectedLambdaException

This exception is thrown when the Amazon Cognito service encounters an unexpected exception with the AWS Lambda service.

HTTP Status Code: 400

### UserLambdaValidationException

This exception is thrown when the Amazon Cognito service encounters a user validation exception with the AWS Lambda service.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# CreateGroup

Creates a new group in the specified user pool.

Requires developer credentials.

# Request Syntax

```
{
   "Description": "string",
   "GroupName": "string",
   "Precedence": number,
   "RoleArn": "string",
   "UserPoolId": "string"
}
```

### **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Description (p. 101)
```

A string containing the description of the group.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

#### GroupName (p. 101)

The name of the group. Must be unique.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: Yes

Precedence (p. 101)

A nonnegative integer value that specifies the precedence of this group relative to the other groups that a user can belong to in the user pool. Zero is the highest precedence value. Groups with lower Precedence values take precedence over groups with higher or null Precedence values. If a user belongs to two or more groups, it is the group with the lowest precedence value whose role ARN will be used in the cognito:roles and cognito:preferred\_role claims in the user's tokens.

Two groups can have the same Precedence value. If this happens, neither group takes precedence over the other. If two groups with the same Precedence have the same role ARN, that role is used in the cognito:preferred\_role claim in tokens for users in each group. If the two groups have different role ARNs, the cognito:preferred\_role claim is not set in users' tokens.

The default Precedence value is null.

```
Type: Integer
                  Valid Range: Minimum value of 0.
                   Required: No
RoleArn (p. 101)
                  The role ARN for the group.
                  Type: String
                  Length Constraints: Minimum length of 20. Maximum length of 2048.
                  Pattern: arn: [\w+=/, .@-]+: [\w+=
                    [\w+=/,.@-]+)?(:[\w+=/,.@-]+)?
                   Required: No
UserPoolId (p. 101)
                  The user pool ID for the user pool.
                  Type: String
                  Length Constraints: Minimum length of 1. Maximum length of 55.
                  Pattern: [\w-]+_[0-9a-zA-Z]+
                   Required: Yes
```

## Response Syntax

```
"Group": {
    "CreationDate": number,
    "Description": "string",
    "GroupName": "string",
    "LastModifiedDate": number,
    "Precedence": number,
    "RoleArn": "string",
    "UserPoolId": "string"
}
```

# **Response Elements**

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

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

```
Group (p. 102)
```

The group object for the group.

Type: GroupType (p. 335) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### GroupExistsException

This exception is thrown when Amazon Cognito encounters a group that already exists in the user pool.

HTTP Status Code: 400 InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 LimitExceededException

This exception is thrown when a user exceeds the limit for a requested AWS resource.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- · AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# CreateIdentityProvider

Creates an identity provider for a user pool.

# Request Syntax

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
AttributeMapping (p. 104)
```

A mapping of identity provider attributes to standard and custom user pool attributes.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 32.

Required: No IdpIdentifiers (p. 104)

A list of identity provider identifiers.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 40.

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

Required: No

ProviderDetails (p. 104)

The identity provider details, such as MetadataURL and MetadataFile.

Type: String to string map

Required: Yes

ProviderName (p. 104)

The identity provider name.

```
Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: [^_][\p{L}\p{M}\p{S}\p{N}\p{P}][^_]+

Required: Yes

ProviderType (p. 104)

The identity provider type.

Type: String

Valid Values: SAML | Facebook | Google | LoginWithAmazon | OIDC

Required: Yes

UserPoolId (p. 104)

The user pool ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern: [\w-]+_[0-9a-zA-Z]+

Required: Yes
```

## Response Syntax

```
{
    "IdentityProvider": {
        "AttributeMapping": {
             "string" : "string"
        },
        "CreationDate": number,
        "IdpIdentifiers": [ "string" ],
        "LastModifiedDate": number,
        "ProviderDetails": {
             "string" : "string"
        },
        "ProviderName": "string",
        "ProviderType": "string",
        "UserPoolId": "string"
    }
}
```

# **Response Elements**

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

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

```
IdentityProvider (p. 105)
```

The newly created identity provider object.

Type: IdentityProviderType (p. 338) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### DuplicateProviderException

This exception is thrown when the provider is already supported by the user pool.

HTTP Status Code: 400

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 LimitExceededException

This exception is thrown when a user exceeds the limit for a requested AWS resource.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- · AWS SDK for Python
- AWS SDK for Ruby V2

# CreateResourceServer

Creates a new OAuth2.0 resource server and defines custom scopes in it.

## Request Syntax

### **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Identifier (p. 107)
```

A unique resource server identifier for the resource server. This could be an HTTPS endpoint where the resource server is located. For example, https://my-weather-api.example.com.

```
Type: String
```

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

```
Pattern: [\x21\x23-\x5B\x5D-\x7E]+
```

Required: Yes

#### Name (p. 107)

A friendly name for the resource server.

Type: String

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

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

Required: Yes

#### **Scopes (p. 107)**

A list of scopes. Each scope is map, where the keys are name and description.

Type: Array of ResourceServerScopeType (p. 354) objects

Array Members: Maximum number of 25 items.

Required: No

#### UserPoolId (p. 107)

The user pool ID for the user pool.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

### Response Syntax

# **Response Elements**

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

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

### ResourceServer (p. 108)

The newly created resource server.

Type: ResourceServerType (p. 355) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### LimitExceededException

This exception is thrown when a user exceeds the limit for a requested AWS resource.

# HTTP Status Code: 400 **NotAuthorizedException**

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# CreateUserImportJob

Creates the user import job.

# **Request Syntax**

```
{
    "CloudWatchLogsRoleArn": "string",
    "JobName": "string",
    "UserPoolId": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
CloudWatchLogsRoleArn (p. 110)
```

The role ARN for the Amazon CloudWatch Logging role for the user import job.

Type: String

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

```
Pattern: arn:[\w+=/,.@-]+:[\w+=/,.@-]+:([\w+=/,.@-]*)?:[0-9]+:[\w+=/,.@-]+(: [\w+=/,.@-]+)?(:[\w+=/,.@-]+)?
```

Required: Yes

#### JobName (p. 110)

The job name for the user import job.

Type: String

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

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

Required: Yes

### UserPoolId (p. 110)

The user pool ID for the user pool that the users are being imported into.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# Response Syntax

```
{
```

#### Amazon Cognito Identity Provider API Reference Response Elements

```
"UserImportJob": {
      "CloudWatchLogsRoleArn": "string",
      "CompletionDate": number,
      "CompletionMessage": "string",
      "CreationDate": number,
      "FailedUsers": number,
      "ImportedUsers": number,
      "JobId": "string",
      "JobName": "string",
      "PreSignedUrl": "string",
      "SkippedUsers": number,
      "StartDate": number,
      "Status": "string",
      "UserPoolId": "string"
   }
}
```

# **Response Elements**

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

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

#### UserImportJob (p. 110)

The job object that represents the user import job.

Type: UserImportJobType (p. 371) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 LimitExceededException

This exception is thrown when a user exceeds the limit for a requested AWS resource.

HTTP Status Code: 400 NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

#### PreconditionNotMetException

This exception is thrown when a precondition is not met.

HTTP Status Code: 400

#### ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

# See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# CreateUserPool

Creates a new Amazon Cognito user pool and sets the password policy for the pool.

# **Request Syntax**

```
"AdminCreateUserConfig": {
  "AllowAdminCreateUserOnly": boolean,
   "InviteMessageTemplate": {
     "EmailMessage": "string",
      "EmailSubject": "string",
      "SMSMessage": "string"
   "UnusedAccountValidityDays": number
"AliasAttributes": [ "string" ],
"AutoVerifiedAttributes": [ "string" ],
"DeviceConfiguration": {
  "ChallengeRequiredOnNewDevice": boolean,
   "DeviceOnlyRememberedOnUserPrompt": boolean
"EmailConfiguration": {
   "ReplyToEmailAddress": "string",
   "SourceArn": "string"
"EmailVerificationMessage": "string",
"EmailVerificationSubject": "string",
"LambdaConfig": {
  "CreateAuthChallenge": "string",
   "CustomMessage": "string",
  "DefineAuthChallenge": "string",
  "PostAuthentication": "string",
  "PostConfirmation": "string",
   "PreAuthentication": "string",
   "PreSignUp": "string",
  "PreTokenGeneration": "string",
  "UserMigration": "string",
   "VerifyAuthChallengeResponse": "string"
},
"MfaConfiguration": "string",
"Policies": {
   "PasswordPolicy": {
      "MinimumLength": number,
      "RequireLowercase": boolean,
      "RequireNumbers": boolean,
      "RequireSymbols": boolean,
      "RequireUppercase": boolean
"PoolName": "string",
"Schema": [
      "AttributeDataType": "string",
      "DeveloperOnlyAttribute": boolean,
      "Mutable": boolean,
      "Name": "string",
      "NumberAttributeConstraints": {
         "MaxValue": "string",
         "MinValue": "string"
      "Required": boolean,
      "StringAttributeConstraints": {
```

```
"MaxLength": "string",
            "MinLength": "string"
     }
   ],
   "SmsAuthenticationMessage": "string",
   "SmsConfiguration": {
     "ExternalId": "string",
     "SnsCallerArn": "string"
   "SmsVerificationMessage": "string",
   "UsernameAttributes": [ "string" ],
   "UserPoolAddOns": {
      "AdvancedSecurityMode": "string"
   },
   "UserPoolTags": {
      "string" : "string"
   "VerificationMessageTemplate": {
     "DefaultEmailOption": "string",
      "EmailMessage": "string",
      "EmailMessageByLink": "string",
     "EmailSubject": "string",
     "EmailSubjectByLink": "string",
      "SmsMessage": "string"
   }
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
AdminCreateUserConfig (p. 113)
```

The configuration for AdminCreateUser requests.

Type: AdminCreateUserConfigType (p. 312) object

Required: No

#### AliasAttributes (p. 113)

Attributes supported as an alias for this user pool. Possible values: **phone\_number**, **email**, or **preferred\_username**.

```
Type: Array of strings
```

Valid Values: phone\_number | email | preferred\_username

Required: No

#### **AutoVerifiedAttributes (p. 113)**

The attributes to be auto-verified. Possible values: email, phone\_number.

Type: Array of strings

Valid Values: phone\_number | email

Required: No

### **DeviceConfiguration (p. 113)**

The device configuration.

Type: DeviceConfigurationType (p. 326) object

Required: No

### **EmailConfiguration (p. 113)**

The email configuration.

Type: EmailConfigurationType (p. 331) object

Required: No

### EmailVerificationMessage (p. 113)

A string representing the email verification message.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 20000.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}\s*]*\{####}$   $[\p{L}\p{S}\p{N}\p{P}\s*]*$ 

Required: No

#### EmailVerificationSubject (p. 113)

A string representing the email verification subject.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 140.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}\s]+$ 

Required: No

#### LambdaConfig (p. 113)

The Lambda trigger configuration information for the new user pool.

#### Note

In a push model, event sources (such as Amazon S3 and custom applications) need permission to invoke a function. So you will need to make an extra call to add permission for these event sources to invoke your Lambda function.

For more information on using the Lambda API to add permission, see AddPermission . For adding permission using the AWS CLI, see add-permission .

Type: LambdaConfigType (p. 340) object

Required: No

#### MfaConfiguration (p. 113)

Specifies MFA configuration details.

Type: String

Valid Values: OFF | ON | OPTIONAL

Required: No

#### Amazon Cognito Identity Provider API Reference Request Parameters

```
Policies (p. 113)
    The policies associated with the new user pool.
    Type: UserPoolPolicyType (p. 382) object
    Required: No
PoolName (p. 113)
    A string used to name the user pool.
    Type: String
    Length Constraints: Minimum length of 1. Maximum length of 128.
    Pattern: [\w\s+=, .@-]+
    Required: Yes
Schema (p. 113)
    An array of schema attributes for the new user pool. These attributes can be standard or custom
    attributes.
    Type: Array of SchemaAttributeType (p. 360) objects
    Array Members: Minimum number of 1 item. Maximum number of 50 items.
    Required: No
SmsAuthenticationMessage (p. 113)
    A string representing the SMS authentication message.
    Type: String
    Length Constraints: Minimum length of 6. Maximum length of 140.
    Pattern: . * \ { #### \ } . *
    Required: No
SmsConfiguration (p. 113)
    The SMS configuration.
    Type: SmsConfigurationType (p. 362) object
    Required: No
SmsVerificationMessage (p. 113)
    A string representing the SMS verification message.
    Type: String
    Length Constraints: Minimum length of 6. Maximum length of 140.
    Pattern: . * \ { #### \ } . *
    Required: No
UsernameAttributes (p. 113)
    Specifies whether email addresses or phone numbers can be specified as usernames when a user
```

signs up.

#### Amazon Cognito Identity Provider API Reference Response Syntax

```
Type: Array of strings

Valid Values: phone_number | email
```

Required: No

#### UserPoolAddOns (p. 113)

Used to enable advanced security risk detection. Set the key AdvancedSecurityMode to the value "AUDIT".

Type: UserPoolAddOnsType (p. 374) object

Required: No

#### UserPoolTags (p. 113)

The cost allocation tags for the user pool. For more information, see Adding Cost Allocation Tags to Your User Pool

Type: String to string map

Required: No

#### VerificationMessageTemplate (p. 113)

The template for the verification message that the user sees when the app requests permission to access the user's information.

Type: VerificationMessageTemplateType (p. 390) object

Required: No

# Response Syntax

```
"UserPool": {
   "AdminCreateUserConfig": {
      "AllowAdminCreateUserOnly": boolean,
      "InviteMessageTemplate": {
         "EmailMessage": "string",
         "EmailSubject": "string",
         "SMSMessage": "string"
      "UnusedAccountValidityDays": number
   "AliasAttributes": [ "string" ],
   "Arn": "string",
   "AutoVerifiedAttributes": [ "string" ],
   "CreationDate": number,
   "CustomDomain": "string",
   "DeviceConfiguration": {
      "ChallengeRequiredOnNewDevice": boolean,
      "DeviceOnlyRememberedOnUserPrompt": boolean
   },
   "Domain": "string",
   "EmailConfiguration": {
      "ReplyToEmailAddress": "string",
      "SourceArn": "string"
   },
   "EmailConfigurationFailure": "string",
   "EmailVerificationMessage": "string",
   "EmailVerificationSubject": "string",
```

```
"EstimatedNumberOfUsers": number,
"Id": "string",
"LambdaConfig": {
   "CreateAuthChallenge": "string",
   "CustomMessage": "string",
   "DefineAuthChallenge": "string",
   "PostAuthentication": "string",
   "PostConfirmation": "string",
   "PreAuthentication": "string",
   "PreSignUp": "string",
   "PreTokenGeneration": "string",
   "UserMigration": "string",
   "VerifyAuthChallengeResponse": "string"
"LastModifiedDate": number,
"MfaConfiguration": "string",
"Name": "string",
"Policies": {
   "PasswordPolicy": {
      "MinimumLength": number,
      "RequireLowercase": boolean,
      "RequireNumbers": boolean,
      "RequireSymbols": boolean,
      "RequireUppercase": boolean
   }
},
"SchemaAttributes": [
  {
      "AttributeDataType": "string",
      "DeveloperOnlyAttribute": boolean,
      "Mutable": boolean,
      "Name": "string",
      "NumberAttributeConstraints": {
         "MaxValue": "string",
         "MinValue": "string"
      "Required": boolean,
      "StringAttributeConstraints": {
         "MaxLength": "string",
"MinLength": "string"
      }
   }
٦,
"SmsAuthenticationMessage": "string",
"SmsConfiguration": {
   "ExternalId": "string",
   "SnsCallerArn": "string"
},
"SmsConfigurationFailure": "string",
"SmsVerificationMessage": "string",
"Status": "string",
"UsernameAttributes": [ "string" ],
"UserPoolAddOns": {
   "AdvancedSecurityMode": "string"
"UserPoolTags": {
   "string" : "string"
"VerificationMessageTemplate": {
   "DefaultEmailOption": "string",
   "EmailMessage": "string",
   "EmailMessageByLink": "string",
   "EmailSubject": "string",
   "EmailSubjectByLink": "string",
   "SmsMessage": "string"
}
```

}

# **Response Elements**

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

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

#### UserPool (p. 117)

A container for the user pool details.

Type: UserPoolType (p. 383) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

### Invalid Email Role Access Policy Exception

This exception is thrown when Amazon Cognito is not allowed to use your email identity. HTTP status code: 400.

HTTP Status Code: 400 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### InvalidSmsRoleAccessPolicyException

This exception is returned when the role provided for SMS configuration does not have permission to publish using Amazon SNS.

HTTP Status Code: 400

#### InvalidSmsRoleTrustRelationshipException

This exception is thrown when the trust relationship is invalid for the role provided for SMS configuration. This can happen if you do not trust **cognito-idp.amazonaws.com** or the external ID provided in the role does not match what is provided in the SMS configuration for the user pool.

HTTP Status Code: 400

#### LimitExceededException

This exception is thrown when a user exceeds the limit for a requested AWS resource.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400 UserPoolTaggingException

This exception is thrown when a user pool tag cannot be set or updated.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# CreateUserPoolClient

Creates the user pool client.

### Request Syntax

```
"AllowedOAuthFlows": [ "string" ],
"AllowedOAuthFlowsUserPoolClient": boolean,
"AllowedOAuthScopes": [ "string" ],
"AnalyticsConfiguration": {
  "ApplicationId": "string",
   "ExternalId": "string",
   "RoleArn": "string",
   "UserDataShared": boolean
},
"CallbackURLs": [ "string" ],
"ClientName": "string",
"DefaultRedirectURI": "string",
"ExplicitAuthFlows": [ "string" ],
"GenerateSecret": boolean,
"LogoutURLs": [ "string" ],
"ReadAttributes": [ "string" ],
"RefreshTokenValidity": number,
"SupportedIdentityProviders": [ "string" ],
"UserPoolId": "string",
"WriteAttributes": [ "string" ]
```

### **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

### AllowedOAuthFlows (p. 121)

Set to code to initiate a code grant flow, which provides an authorization code as the response. This code can be exchanged for access tokens with the token endpoint.

Set to token to specify that the client should get the access token (and, optionally, ID token, based on scopes) directly.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 3 items.

```
Valid Values: code | implicit | client_credentials
```

Required: No

#### AllowedOAuthFlowsUserPoolClient (p. 121)

Set to True if the client is allowed to follow the OAuth protocol when interacting with Cognito user pools.

Type: Boolean

Required: No

#### Amazon Cognito Identity Provider API Reference Request Parameters

#### AllowedOAuthScopes (p. 121)

A list of allowed OAuth scopes. Currently supported values are "phone", "email", "openid", and "Cognito".

Type: Array of strings

Array Members: Maximum number of 25 items.

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

Pattern:  $[\x21\x23-\x5B\x5D-\x7E]$ +

Required: No

#### AnalyticsConfiguration (p. 121)

The Amazon Pinpoint analytics configuration for collecting metrics for this user pool.

Type: AnalyticsConfigurationType (p. 313) object

Required: No

### CallbackURLs (p. 121)

A list of allowed redirect (callback) URLs for the identity providers.

A redirect URI must:

- Be an absolute URI.
- · Be registered with the authorization server.
- Not include a fragment component.

See OAuth 2.0 - Redirection Endpoint.

Amazon Cognito requires HTTPS over HTTP except for http://localhost for testing purposes only.

App callback URLs such as myapp://example are also supported.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: No

#### ClientName (p. 121)

The client name for the user pool client you would like to create.

Type: String

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

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

Required: Yes

#### DefaultRedirectURI (p. 121)

The default redirect URI. Must be in the CallbackURLs list.

#### Amazon Cognito Identity Provider API Reference Request Parameters

A redirect URI must:

- Be an absolute URI.
- Be registered with the authorization server.
- Not include a fragment component.

See OAuth 2.0 - Redirection Endpoint.

Amazon Cognito requires HTTPS over HTTP except for http://localhost for testing purposes only.

App callback URLs such as myapp://example are also supported.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: No

### ExplicitAuthFlows (p. 121)

The explicit authentication flows.

Type: Array of strings

Valid Values: ADMIN\_NO\_SRP\_AUTH | CUSTOM\_AUTH\_FLOW\_ONLY | USER\_PASSWORD\_AUTH

Required: No

#### GenerateSecret (p. 121)

Boolean to specify whether you want to generate a secret for the user pool client being created.

Type: Boolean

Required: No

### LogoutURLs (p. 121)

A list of allowed logout URLs for the identity providers.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: No

#### ReadAttributes (p. 121)

The read attributes.

Type: Array of strings

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

Required: No

#### RefreshTokenValidity (p. 121)

The time limit, in days, after which the refresh token is no longer valid and cannot be used.

#### Amazon Cognito Identity Provider API Reference Response Syntax

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 3650.

Required: No

#### SupportedIdentityProviders (p. 121)

A list of provider names for the identity providers that are supported on this client.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: No

#### UserPoolId (p. 121)

The user pool ID for the user pool where you want to create a user pool client.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

#### WriteAttributes (p. 121)

The user pool attributes that the app client can write to.

If your app client allows users to sign in through an identity provider, this array must include all attributes that are mapped to identity provider attributes. Amazon Cognito updates mapped attributes when users sign in to your application through an identity provider. If your app client lacks write access to a mapped attribute, Amazon Cognito throws an error when it attempts to update the attribute. For more information, see Specifying Identity Provider Attribute Mappings for Your User Pool.

Type: Array of strings

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

Required: No

# Response Syntax

```
{
   "UserPoolClient": {
      "AllowedOAuthFlows": [ "string" ],
      "AllowedOAuthFlowsUserPoolClient": boolean,
      "AllowedOAuthScopes": [ "string" ],
      "AnalyticsConfiguration": {
            "ApplicationId": "string",
            "ExternalId": "string",
            "RoleArn": "string",
            "UserDataShared": boolean
      },
      "CallbackURLs": [ "string" ],
      "ClientId": "string",
      "ClientName": "string",
      "cli
```

#### Amazon Cognito Identity Provider API Reference Response Elements

```
"ClientSecret": "string",
   "CreationDate": number,
   "DefaultRedirectURI": "string",
   "ExplicitAuthFlows": [ "string" ],
   "LastModifiedDate": number,
   "LogoutURLs": [ "string" ],
   "ReadAttributes": [ "string" ],
   "RefreshTokenValidity": number,
   "SupportedIdentityProviders": [ "string" ],
   "UserPoolId": "string",
   "WriteAttributes": [ "string" ]
}
```

# **Response Elements**

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

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

### UserPoolClient (p. 124)

The user pool client that was just created.

Type: UserPoolClientType (p. 376) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

```
HTTP Status Code: 500
InvalidOAuthFlowException
```

This exception is thrown when the specified OAuth flow is invalid.

HTTP Status Code: 400 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 LimitExceededException

This exception is thrown when a user exceeds the limit for a requested AWS resource.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

# HTTP Status Code: 400 ScopeDoesNotExistException

This exception is thrown when the specified scope does not exist.

HTTP Status Code: 400 **TooManyRequestsException** 

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# CreateUserPoolDomain

Creates a new domain for a user pool.

## Request Syntax

```
{
    "CustomDomainConfig": {
        "CertificateArn": "string"
},
    "Domain": "string",
    "UserPoolId": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

#### CustomDomainConfig (p. 127)

Required: Yes

The configuration for a custom domain that hosts the sign-up and sign-in webpages for your application.

Provide this parameter only if you want to use a custom domain for your user pool. Otherwise, you can exclude this parameter and use the Amazon Cognito hosted domain instead.

For more information about the hosted domain and custom domains, see Configuring a User Pool Domain.

```
Type: CustomDomainConfigType (p. 325) object
Required: No
Domain (p. 127)

The domain string.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: ^[a-z0-9](?:[a-z0-9\-]{0,61}[a-z0-9])?$

Required: Yes
UserPoolId (p. 127)

The user pool ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern: [\w-]+_[0-9a-zA-Z]+
```

## Response Syntax

```
{
    "CloudFrontDomain": "string"
}
```

# **Response Elements**

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

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

#### CloudFrontDomain (p. 128)

The Amazon CloudFront endpoint that you use as the target of the alias that you set up with your Domain Name Service (DNS) provider.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern:  $^[a-z0-9](?:[a-z0-9])?$ \$

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 LimitExceededException

This exception is thrown when a user exceeds the limit for a requested AWS resource.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# DeleteGroup

Deletes a group. Currently only groups with no members can be deleted.

Requires developer credentials.

## Request Syntax

```
{
    "GroupName": "string",
    "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
GroupName (p. 130)
```

```
The name of the group.
```

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: Yes

#### UserPoolId (p. 130)

The user pool ID for the user pool.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# **Response Elements**

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# DeleteIdentityProvider

Deletes an identity provider for a user pool.

## Request Syntax

```
{
    "ProviderName": "string",
    "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
ProviderName (p. 132)
```

The identity provider name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: Yes

#### UserPoolId (p. 132)

The user pool ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# **Response Elements**

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400
NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400
TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

UnsupportedIdentityProviderException

This exception is thrown when the specified identifier is not supported.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# DeleteResourceServer

Deletes a resource server.

## Request Syntax

```
{
  "Identifier": "string",
  "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Identifier (p. 134)
```

The identifier for the resource server.

Type: String

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

Pattern:  $[\x21\x23-\x5B\x5D-\x7E]$ +

Required: Yes

UserPoolId (p. 134)

The user pool ID for the user pool that hosts the resource server.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# **Response Elements**

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400
NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400
TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# DeleteUser

Allows a user to delete himself or herself.

## Request Syntax

```
{
    "AccessToken": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

#### AccessToken (p. 136)

The access token from a request to delete a user.

```
Type: String
```

Pattern: [A-Za-z0-9-\_=.]+

Required: Yes

# **Response Elements**

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

#### PasswordResetRequiredException

This exception is thrown when a password reset is required.

# HTTP Status Code: 400 ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400
UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# **DeleteUserAttributes**

Deletes the attributes for a user.

## Request Syntax

```
{
    "AccessToken": "string",
    "UserAttributeNames": [ "string" ]
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

#### AccessToken (p. 138)

The access token used in the request to delete user attributes.

Type: String

Pattern: [A-Za-z0-9- =.]+

Required: Yes

**UserAttributeNames (p. 138)** 

An array of strings representing the user attribute names you wish to delete.

For custom attributes, you must prepend the custom: prefix to the attribute name.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: Yes

# **Response Elements**

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

#### PasswordResetRequiredException

This exception is thrown when a password reset is required.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400
UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400
UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- · AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# DeleteUserPool

Deletes the specified Amazon Cognito user pool.

## Request Syntax

```
{
    "UserPoolId": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

#### UserPoolId (p. 140)

The user pool ID for the user pool you want to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# **Response Elements**

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500
InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

### ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

#### User Import In Progress Exception

This exception is thrown when you are trying to modify a user pool while a user import job is in progress for that pool.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# DeleteUserPoolClient

Allows the developer to delete the user pool client.

## Request Syntax

```
{
    "ClientId": "string",
    "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
ClientId (p. 142)
```

The app client ID of the app associated with the user pool.

Type: String

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

Pattern: [\w+]+

Required: Yes

UserPoolId (p. 142)

The user pool ID for the user pool where you want to delete the client.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# **Response Elements**

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400
TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# DeleteUserPoolDomain

Deletes a domain for a user pool.

## Request Syntax

```
{
    "Domain": "string",
    "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Domain (p. 144)
```

The domain string.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern:  $^[a-z0-9](?:[a-z0-9])?$ \$

Required: Yes

#### UserPoolId (p. 144)

The user pool ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# **Response Elements**

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# DescribeldentityProvider

Gets information about a specific identity provider.

### Request Syntax

```
{
    "ProviderName": "string",
    "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
ProviderName (p. 146)
```

The identity provider name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: Yes

UserPoolId (p. 146)

The user pool ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# Response Syntax

#### Amazon Cognito Identity Provider API Reference Response Elements

```
"UserPoolId": "string"
}
```

# **Response Elements**

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

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

#### IdentityProvider (p. 146)

The identity provider that was deleted.

Type: IdentityProviderType (p. 338) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

### HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- · AWS SDK for Go

- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# DescribeResourceServer

Describes a resource server.

# **Request Syntax**

```
{
    "Identifier": "string",
    "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Identifier (p. 149)
```

The identifier for the resource server

Type: String

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

Pattern:  $[\x21\x23-\x5B\x5D-\x7E]$ +

Required: Yes

#### UserPoolId (p. 149)

The user pool ID for the user pool that hosts the resource server.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-z]+$ 

Required: Yes

# Response Syntax

# **Response Elements**

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

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

ResourceServer (p. 149)

The resource server.

Type: ResourceServerType (p. 355) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400 **TooManyRequestsException** 

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- · AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- · AWS SDK for Python

AWS SDK for Ruby V2	

# DescribeRiskConfiguration

Describes the risk configuration.

# Request Syntax

```
{
    "ClientId": "string",
    "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
ClientId (p. 152)

The app client ID.

Type: String

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

Pattern: [\w+]+

Required: No

UserPoolId (p. 152)

The user pool ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern: [\w-]+_[0-9a-zA-Z]+

Required: Yes
```

## Response Syntax

```
"MediumAction": {
               "EventAction": "string",
               "Notify": boolean
            }
         },
         "NotifyConfiguration": {
            "BlockEmail": {
               "HtmlBody": "string",
               "Subject": "string",
               "TextBody": "string"
            "From": "string",
            "MfaEmail": {
               "HtmlBody": "string",
               "Subject": "string",
               "TextBody": "string"
            "NoActionEmail": {
               "HtmlBody": "string",
               "Subject": "string",
               "TextBody": "string"
            "ReplyTo": "string",
            "SourceArn": "string"
      "ClientId": "string",
      "CompromisedCredentialsRiskConfiguration": {
         "Actions": {
            "EventAction": "string"
         "EventFilter": [ "string" ]
      },
      "LastModifiedDate": number,
      "RiskExceptionConfiguration": {
         "BlockedIPRangeList": [ "string" ],
         "SkippedIPRangeList": [ "string" ]
      "UserPoolId": "string"
   }
}
```

## **Response Elements**

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

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

#### RiskConfiguration (p. 152)

The risk configuration.

Type: RiskConfigurationType (p. 357) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

### HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

UserPoolAddOnNotEnabledException

This exception is thrown when user pool add-ons are not enabled.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# DescribeUserImportJob

Describes the user import job.

### Request Syntax

```
{
   "JobId": "string",
   "UserPoolId": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Jobid (p. 155)
```

The job ID for the user import job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern: import-[0-9a-zA-Z-]+

Required: Yes
UserPoolId (p. 155)

The user pool ID for the user pool that the users are being imported into.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# Response Syntax

```
{
    "UserImportJob": {
        "CloudWatchLogsRoleArn": "string",
        "CompletionDate": number,
        "CompletionMessage": "string",
        "CreationDate": number,
        "FailedUsers": number,
        "ImportedUsers": number,
        "JobId": "string",
        "JobName": "string",
        "PreSignedUrl": "string",
        "SkippedUsers": number,
        "StartDate": number,
}
```

#### Amazon Cognito Identity Provider API Reference Response Elements

```
"Status": "string",
    "UserPoolId": "string"
}
```

# **Response Elements**

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

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

#### UserImportJob (p. 155)

The job object that represents the user import job.

Type: UserImportJobType (p. 371) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400
NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

#### ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

#### TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- · AWS SDK for C++
- · AWS SDK for Go

- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# DescribeUserPool

Returns the configuration information and metadata of the specified user pool.

## Request Syntax

```
{
    "UserPoolId": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
UserPoolId (p. 158)
```

The user pool ID for the user pool you want to describe.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

## Response Syntax

```
"UserPool": {
   "AdminCreateUserConfig": {
     "AllowAdminCreateUserOnly": boolean,
      "InviteMessageTemplate": {
         "EmailMessage": "string",
         "EmailSubject": "string",
         "SMSMessage": "string"
      "UnusedAccountValidityDays": number
   "AliasAttributes": [ "string" ],
   "Arn": "string",
   "AutoVerifiedAttributes": [ "string" ],
   "CreationDate": number,
   "CustomDomain": "string",
   "DeviceConfiguration": {
      "ChallengeRequiredOnNewDevice": boolean,
      "DeviceOnlyRememberedOnUserPrompt": boolean
   "Domain": "string",
   "EmailConfiguration": {
      "ReplyToEmailAddress": "string",
      "SourceArn": "string"
   "EmailConfigurationFailure": "string",
```

```
"EmailVerificationMessage": "string",
"EmailVerificationSubject": "string",
"EstimatedNumberOfUsers": number,
"Id": "string",
"LambdaConfig": {
   "CreateAuthChallenge": "string",
   "CustomMessage": "string",
   "DefineAuthChallenge": "string",
   "PostAuthentication": "string",
   "PostConfirmation": "string"
   "PreAuthentication": "string",
   "PreSignUp": "string",
   "PreTokenGeneration": "string",
   "UserMigration": "string",
   "VerifyAuthChallengeResponse": "string"
"LastModifiedDate": number,
"MfaConfiguration": "string",
"Name": "string",
"Policies": {
   "PasswordPolicy": {
      "MinimumLength": number,
      "RequireLowercase": boolean,
      "RequireNumbers": boolean,
      "RequireSymbols": boolean,
      "RequireUppercase": boolean
  }
"SchemaAttributes": [
  {
      "AttributeDataType": "string",
      "DeveloperOnlyAttribute": boolean,
      "Mutable": boolean,
      "Name": "string",
      "NumberAttributeConstraints": {
         "MaxValue": "string",
         "MinValue": "string"
      "Required": boolean,
      "StringAttributeConstraints": {
         "MaxLength": "string",
         "MinLength": "string"
      }
  }
],
"SmsAuthenticationMessage": "string",
"SmsConfiguration": {
   "ExternalId": "string",
   "SnsCallerArn": "string"
"SmsConfigurationFailure": "string",
"SmsVerificationMessage": "string",
"Status": "string",
"UsernameAttributes": [ "string" ],
"UserPoolAddOns": {
  "AdvancedSecurityMode": "string"
"UserPoolTags": {
   "string" : "string"
"VerificationMessageTemplate": {
   "DefaultEmailOption": "string",
   "EmailMessage": "string",
   "EmailMessageByLink": "string",
   "EmailSubject": "string",
   "EmailSubjectByLink": "string",
```

#### Amazon Cognito Identity Provider API Reference Response Elements

```
"SmsMessage": "string"
}
}
```

# **Response Elements**

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

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

#### UserPool (p. 158)

The container of metadata returned by the server to describe the pool.

Type: UserPoolType (p. 383) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

#### TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

#### UserPoolTaggingException

This exception is thrown when a user pool tag cannot be set or updated.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# DescribeUserPoolClient

Client method for returning the configuration information and metadata of the specified user pool app client.

## Request Syntax

```
{
    "ClientId": "string",
    "UserPoolId": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
ClientId (p. 162)
```

The app client ID of the app associated with the user pool.

Type: String

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

Pattern: [\w+]+

Required: Yes

#### UserPoolId (p. 162)

The user pool ID for the user pool you want to describe.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

## Response Syntax

```
"UserPoolClient": {
    "AllowedOAuthFlows": [ "string" ],
    "AllowedOAuthFlowsUserPoolClient": boolean,
    "AllowedOAuthScopes": [ "string" ],
    "AnalyticsConfiguration": {
        "ApplicationId": "string",
        "ExternalId": "string",
        "RoleArn": "string",
        "UserDataShared": boolean
    },
```

#### Amazon Cognito Identity Provider API Reference Response Elements

```
"CallbackURLs": [ "string" ],
     "ClientId": "string",
     "ClientName": "string",
     "ClientSecret": "string",
      "CreationDate": number,
      "DefaultRedirectURI": "string",
      "ExplicitAuthFlows": [ "string" ],
     "LastModifiedDate": number,
      "LogoutURLs": [ "string" ],
      "ReadAttributes": [ "string" ],
      "RefreshTokenValidity": number,
      "SupportedIdentityProviders": [ "string" ],
     "UserPoolId": "string",
      "WriteAttributes": [ "string" ]
   }
}
```

## Response Elements

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

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

#### UserPoolClient (p. 162)

The user pool client from a server response to describe the user pool client.

Type: UserPoolClientType (p. 376) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# DescribeUserPoolDomain

Gets information about a domain.

### Request Syntax

```
{
    "Domain": "string"
}
```

### **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Domain (p. 165)
```

The domain string.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern:  $^[a-z0-9](?:[a-z0-9])?$ \$

Required: Yes

### Response Syntax

```
{
    "DomainDescription": {
        "AWSAccountId": "string",
        "CloudFrontDistribution": "string",
        "CustomDomainConfig": {
            "CertificateArn": "string"
        },
        "Domain": "string",
        "S3Bucket": "string",
        "Status": "string",
        "UserPoolId": "string",
        "Version": "string"
}
```

# **Response Elements**

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

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

#### DomainDescription (p. 165)

A domain description object containing information about the domain.

Type: DomainDescriptionType (p. 329) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500
InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400
NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- · AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# **ForgetDevice**

Forgets the specified device.

### Request Syntax

```
{
    "AccessToken": "string",
    "DeviceKey": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
AccessToken (p. 167)
```

The access token for the forgotten device request.

```
Type: String

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

Required: No

DeviceKey (p. 167)

The device key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern: [\w-]+_[0-9a-f-]+

Required: Yes
```

# **Response Elements**

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### InvalidUserPoolConfigurationException

This exception is thrown when the user pool configuration is invalid.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

#### PasswordResetRequiredException

This exception is thrown when a password reset is required.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400
UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# ForgotPassword

Calling this API causes a message to be sent to the end user with a confirmation code that is required to change the user's password. For the Username parameter, you can use the username or user alias. If a verified phone number exists for the user, the confirmation code is sent to the phone number. Otherwise, if a verified email exists, the confirmation code is sent to the email. If neither a verified phone number nor a verified email exists, InvalidParameterException is thrown. To use the confirmation code for resetting the password, call ConfirmForgotPassword (p. 93).

### Request Syntax

```
{
    "AnalyticsMetadata": {
        "AnalyticsEndpointId": "string"
},
    "ClientId": "string",
    "SecretHash": "string",
    "UserContextData": {
        "EncodedData": "string"
},
    "Username": "string"
}
```

### **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
AnalyticsMetadata (p. 169)
```

The Amazon Pinpoint analytics metadata for collecting metrics for ForgotPassword calls.

Type: AnalyticsMetadataType (p. 314) object

Required: No ClientId (p. 169)

The ID of the client associated with the user pool.

Type: String

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

Pattern: [\w+]+
Required: Yes
SecretHash (p. 169)

A keyed-hash message authentication code (HMAC) calculated using the secret key of a user pool client and username plus the client ID in the message.

Type: String

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

Pattern:  $[\w+=/]+$ 

#### Required: No

#### UserContextData (p. 169)

Contextual data such as the user's device fingerprint, IP address, or location used for evaluating the risk of an unexpected event by Amazon Cognito advanced security.

```
Type: UserContextDataType (p. 370) object
```

### Required: No

#### Username (p. 169)

The user name of the user for whom you want to enter a code to reset a forgotten password.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: Yes

### Response Syntax

```
"CodeDeliveryDetails": {
    "AttributeName": "string",
    "DeliveryMedium": "string",
    "Destination": "string"
}
```

## **Response Elements**

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

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

#### CodeDeliveryDetails (p. 170)

The code delivery details returned by the server in response to the request to reset a password.

Type: CodeDeliveryDetailsType (p. 321) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### CodeDeliveryFailureException

This exception is thrown when a verification code fails to deliver successfully.

HTTP Status Code: 400

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

#### Amazon Cognito Identity Provider API Reference Errors

HTTP Status Code: 500

#### InvalidEmailRoleAccessPolicyException

This exception is thrown when Amazon Cognito is not allowed to use your email identity. HTTP status code: 400.

HTTP Status Code: 400

#### InvalidLambdaResponseException

This exception is thrown when the Amazon Cognito service encounters an invalid AWS Lambda response.

HTTP Status Code: 400 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### InvalidSmsRoleAccessPolicyException

This exception is returned when the role provided for SMS configuration does not have permission to publish using Amazon SNS.

HTTP Status Code: 400

#### InvalidSmsRoleTrustRelationshipException

This exception is thrown when the trust relationship is invalid for the role provided for SMS configuration. This can happen if you do not trust **cognito-idp.amazonaws.com** or the external ID provided in the role does not match what is provided in the SMS configuration for the user pool.

HTTP Status Code: 400
LimitExceededException

This exception is thrown when a user exceeds the limit for a requested AWS resource.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

#### UnexpectedLambdaException

This exception is thrown when the Amazon Cognito service encounters an unexpected exception with the AWS Lambda service.

HTTP Status Code: 400

#### UserLambdaValidationException

This exception is thrown when the Amazon Cognito service encounters a user validation exception with the AWS Lambda service.

HTTP Status Code: 400
UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

## **GetCSVHeader**

Gets the header information for the .csv file to be used as input for the user import job.

### Request Syntax

```
{
    "UserPoolId": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
UserPoolId (p. 173)
```

The user pool ID for the user pool that the users are to be imported into.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

## Response Syntax

```
{
    "CSVHeader": [ "string" ],
    "UserPoolId": "string"
}
```

## **Response Elements**

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

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

```
CSVHeader (p. 173)
```

The header information for the .csv file for the user import job.

Type: Array of strings

UserPoolId (p. 173)

The user pool ID for the user pool that the users are to be imported into.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

#### Amazon Cognito Identity Provider API Reference Errors

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# **GetDevice**

Gets the device.

### Request Syntax

```
{
    "AccessToken": "string",
    "DeviceKey": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
AccessToken (p. 175)

The access token.

Type: String

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

Required: No

DeviceKey (p. 175)

The device key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern: [\w-]+_[0-9a-f-]+

Required: Yes
```

## Response Syntax

## **Response Elements**

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

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

**Device (p. 175)** 

The device.

Type: DeviceType (p. 328) object

#### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### InvalidUserPoolConfigurationException

This exception is thrown when the user pool configuration is invalid.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

#### PasswordResetRequiredException

This exception is thrown when a password reset is required.

HTTP Status Code: 400

#### ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

#### UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400

#### UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

# See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# **GetGroup**

Gets a group.

Requires developer credentials.

## Request Syntax

```
{
    "GroupName": "string",
    "UserPoolId": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
GroupName (p. 178)

The name of the group.

Type: String

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

Pattern: [\p\{L\}\p\{M\}\p\{S\}\p\{N\}\p\{P\}]+

Required: Yes

UserPoolId (p. 178)

The user pool ID for the user pool.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern: [\w-]+[0-9a-zA-Z]+
```

# Response Syntax

Required: Yes

```
"Group": {
    "CreationDate": number,
    "Description": "string",
    "GroupName": "string",
    "LastModifiedDate": number,
    "Precedence": number,
    "RoleArn": "string",
    "UserPoolId": "string"
}
```

## **Response Elements**

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

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

```
Group (p. 178)
```

The group object for the group.

Type: GroupType (p. 335) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400 **TooManyRequestsException** 

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- · AWS Command Line Interface
- AWS SDK for .NET
- · AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- · AWS SDK for Python

AWS SDK for Ruby V2

# GetIdentityProviderByIdentifier

Gets the specified identity provider.

### Request Syntax

```
{
   "IdpIdentifier": "string",
   "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
IdpIdentifier (p. 181)

The identity provider ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 40.

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

Required: Yes

UserPoolId (p. 181)

The user pool ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern: [\w-]+_[0-9a-zA-Z]+

Required: Yes
```

### Response Syntax

```
{
   "IdentityProvider": {
        "AttributeMapping": {
            "string" : "string"
        },
        "CreationDate": number,
        "IdpIdentifiers": [ "string" ],
        "LastModifiedDate": number,
        "ProviderDetails": {
                  "string" : "string"
        },
        "ProviderName": "string",
        "ProviderType": "string",
        "string",
        "string",
        "providerType": "string",
        "string",
        "string",
        "providerType": "string",
        "stri
```

#### Amazon Cognito Identity Provider API Reference Response Elements

```
"UserPoolId": "string"
}
```

# **Response Elements**

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

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

```
IdentityProvider (p. 181)
```

The identity provider object.

Type: IdentityProviderType (p. 338) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- · AWS SDK for Go

- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# GetSigningCertificate

This method takes a user pool ID, and returns the signing certificate.

### Request Syntax

```
{
    "UserPoolId": "string"
}
```

### **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
UserPoolId (p. 184)
```

The user pool ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# Response Syntax

```
{
    "Certificate": "string"
}
```

## **Response Elements**

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

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

#### Certificate (p. 184)

The signing certificate.

Type: String

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

# HTTP Status Code: 500 ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

## GetUlCustomization

Gets the UI Customization information for a particular app client's app UI, if there is something set. If nothing is set for the particular client, but there is an existing pool level customization (app clientId will be ALL), then that is returned. If nothing is present, then an empty shape is returned.

### Request Syntax

```
{
    "ClientId": "string",
    "UserPoolId": "string"
}
```

### **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
ClientId (p. 186)
```

The client ID for the client app.

Type: String

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

Pattern: [\w+]+

Required: No

#### UserPoolId (p. 186)

The user pool ID for the user pool.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

## Response Syntax

```
"UICustomization": {
    "ClientId": "string",
    "CreationDate": number,
    "CSS": "string",
    "CSSVersion": "string",
    "ImageUrl": "string",
    "LastModifiedDate": number,
    "UserPoolId": "string"
}
```

}

# **Response Elements**

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

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

#### **UICustomization (p. 186)**

The UI customization information.

Type: UICustomizationType (p. 368) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400
NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- · AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for JavaScript

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# **GetUser**

Gets the user attributes and metadata for a user.

### Request Syntax

```
{
    "AccessToken": "string"
}
```

### **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

#### AccessToken (p. 189)

The access token returned by the server response to get information about the user.

```
Type: String

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

Required: Yes
```

## Response Syntax

## **Response Elements**

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

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

```
MFAOptions (p. 189)
```

Specifies the options for MFA (e.g., email or phone number).

#### Amazon Cognito Identity Provider API Reference Errors

Type: Array of MFAOptionType (p. 344) objects

PreferredMfaSetting (p. 189)

The user's preferred MFA setting.

Type: String

**UserAttributes (p. 189)** 

An array of name-value pairs representing user attributes.

For custom attributes, you must prepend the custom: prefix to the attribute name.

Type: Array of AttributeType (p. 315) objects

**UserMFASettingList (p. 189)** 

The list of the user's MFA settings.

Type: Array of strings

Username (p. 189)

The user name of the user you wish to retrieve from the get user request.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

Password Reset Required Exception

This exception is thrown when a password reset is required.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

#### TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400
UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# GetUserAttributeVerificationCode

Gets the user attribute verification code for the specified attribute name.

### Request Syntax

```
{
    "AccessToken": "string",
    "AttributeName": "string"
}
```

### **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
AccessToken (p. 192)
```

The access token returned by the server response to get the user attribute verification code.

```
Type: String

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

Required: Yes

AttributeName (p. 192)
```

The attribute name returned by the server response to get the user attribute verification code.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: Yes

## Response Syntax

```
{
    "CodeDeliveryDetails": {
        "AttributeName": "string",
        "DeliveryMedium": "string",
        "Destination": "string"
    }
}
```

# **Response Elements**

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

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

#### Amazon Cognito Identity Provider API Reference Errors

#### CodeDeliveryDetails (p. 192)

The code delivery details returned by the server in response to the request to get the user attribute verification code.

Type: CodeDeliveryDetailsType (p. 321) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### CodeDeliveryFailureException

This exception is thrown when a verification code fails to deliver successfully.

HTTP Status Code: 400 InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidEmailRoleAccessPolicyException

This exception is thrown when Amazon Cognito is not allowed to use your email identity. HTTP status code: 400.

HTTP Status Code: 400

#### InvalidLambdaResponseException

This exception is thrown when the Amazon Cognito service encounters an invalid AWS Lambda response.

HTTP Status Code: 400 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### InvalidSmsRoleAccessPolicyException

This exception is returned when the role provided for SMS configuration does not have permission to publish using Amazon SNS.

HTTP Status Code: 400

#### InvalidSmsRoleTrustRelationshipException

This exception is thrown when the trust relationship is invalid for the role provided for SMS configuration. This can happen if you do not trust **cognito-idp.amazonaws.com** or the external ID provided in the role does not match what is provided in the SMS configuration for the user pool.

HTTP Status Code: 400

#### LimitExceededException

This exception is thrown when a user exceeds the limit for a requested AWS resource.

HTTP Status Code: 400

#### NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

#### PasswordResetRequiredException

This exception is thrown when a password reset is required.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400
UnexpectedLambdaException

This exception is thrown when the Amazon Cognito service encounters an unexpected exception with the AWS Lambda service.

HTTP Status Code: 400

#### UserLambdaValidationException

This exception is thrown when the Amazon Cognito service encounters a user validation exception with the AWS Lambda service.

HTTP Status Code: 400
UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python

AWS SDK for Ruby V2	

# GetUserPoolMfaConfig

Gets the user pool multi-factor authentication (MFA) configuration.

### Request Syntax

```
{
    "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
UserPoolId (p. 196)
```

The user pool ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

### Response Syntax

```
{
    "MfaConfiguration": "string",
    "SmsMfaConfiguration": {
        "SmsAuthenticationMessage": "string",
        "ExternalId": "string",
        "SnsCallerArn": "string"
     }
},
    "SoftwareTokenMfaConfiguration": {
        "Enabled": boolean
}
```

# **Response Elements**

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

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

MfaConfiguration (p. 196)

The multi-factor (MFA) configuration.

#### Amazon Cognito Identity Provider API Reference Errors

Type: String

Valid Values: OFF | ON | OPTIONAL

SmsMfaConfiguration (p. 196)

The SMS text message multi-factor (MFA) configuration.

Type: SmsMfaConfigType (p. 363) object SoftwareTokenMfaConfiguration (p. 196)

The software token multi-factor (MFA) configuration.

Type: SoftwareTokenMfaConfigType (p. 365) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500
InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for JavaScript

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# GlobalSignOut

Signs out users from all devices.

### Request Syntax

```
{
    "AccessToken": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

#### AccessToken (p. 199)

```
The access token.
```

Type: String

Pattern: [A-Za-z0-9-\_=.]+

Required: Yes

## **Response Elements**

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

#### PasswordResetRequiredException

This exception is thrown when a password reset is required.

# HTTP Status Code: 400 ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400
UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

### **InitiateAuth**

Initiates the authentication flow.

### Request Syntax

```
{
    "AnalyticsMetadata": {
        "AnalyticsEndpointId": "string"
},
    "AuthFlow": "string",
    "AuthParameters": {
        "string" : "string"
},
    "ClientId": "string",
    "ClientMetadata": {
        "string" : "string"
},
    "UserContextData": {
        "EncodedData": "string"
}
```

### **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

#### AnalyticsMetadata (p. 201)

The Amazon Pinpoint analytics metadata for collecting metrics for InitiateAuth calls.

Type: AnalyticsMetadataType (p. 314) object

Required: No

#### AuthFlow (p. 201)

The authentication flow for this call to execute. The API action will depend on this value. For example:

- REFRESH\_TOKEN\_AUTH will take in a valid refresh token and return new tokens.
- USER\_SRP\_AUTH will take in USERNAME and SRP\_A and return the SRP variables to be used for next challenge execution.
- USER\_PASSWORD\_AUTH will take in USERNAME and PASSWORD and return the next challenge or tokens.

#### Valid values include:

- USER\_SRP\_AUTH: Authentication flow for the Secure Remote Password (SRP) protocol.
- REFRESH\_TOKEN\_AUTH/REFRESH\_TOKEN: Authentication flow for refreshing the access token and ID token by supplying a valid refresh token.
- CUSTOM\_AUTH: Custom authentication flow.
- USER\_PASSWORD\_AUTH: Non-SRP authentication flow; USERNAME and PASSWORD are passed directly. If a user migration Lambda trigger is set, this flow will invoke the user migration Lambda if the USERNAME is not found in the user pool.

#### Amazon Cognito Identity Provider API Reference Response Syntax

ADMIN NO SRP AUTH is not a valid value.

Type: String

Valid Values: USER\_SRP\_AUTH | REFRESH\_TOKEN\_AUTH | REFRESH\_TOKEN | CUSTOM\_AUTH | ADMIN\_NO\_SRP\_AUTH | USER\_PASSWORD\_AUTH

Required: Yes

#### AuthParameters (p. 201)

The authentication parameters. These are inputs corresponding to the AuthFlow that you are invoking. The required values depend on the value of AuthFlow:

- For USER\_SRP\_AUTH: USERNAME (required), SRP\_A (required), SECRET\_HASH (required if the app client is configured with a client secret), DEVICE\_KEY
- For REFRESH\_TOKEN\_AUTH/REFRESH\_TOKEN: REFRESH\_TOKEN (required), SECRET\_HASH (required if the app client is configured with a client secret), DEVICE\_KEY
- For CUSTOM\_AUTH: USERNAME (required), SECRET\_HASH (if app client is configured with client secret), DEVICE\_KEY

Type: String to string map

Required: No ClientId (p. 201)

The app client ID.

Type: String

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

Pattern: [\w+]+

Required: Yes

#### ClientMetadata (p. 201)

This is a random key-value pair map which can contain any key and will be passed to your PreAuthentication Lambda trigger as-is. It can be used to implement additional validations around authentication.

Type: String to string map

Required: No

#### UserContextData (p. 201)

Contextual data such as the user's device fingerprint, IP address, or location used for evaluating the risk of an unexpected event by Amazon Cognito advanced security.

Type: UserContextDataType (p. 370) object

Required: No

```
{
    "AuthenticationResult": {
        "AccessToken": "string",
        "ExpiresIn": number,
```

#### Amazon Cognito Identity Provider API Reference Response Elements

```
"IdToken": "string",
   "NewDeviceMetadata": {
        "DeviceGroupKey": "string",
        "DeviceKey": "string"
    },
    "RefreshToken": "string",
    "TokenType": "string"
},
   "ChallengeName": "string",
   "ChallengeParameters": {
        "string" : "string"
},
   "Session": "string"
}
```

## **Response Elements**

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

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

#### AuthenticationResult (p. 202)

The result of the authentication response. This is only returned if the caller does not need to pass another challenge. If the caller does need to pass another challenge before it gets tokens, ChallengeName, ChallengeParameters, and Session are returned.

Type: AuthenticationResultType (p. 316) object

#### ChallengeName (p. 202)

The name of the challenge which you are responding to with this call. This is returned to you in the AdminInitiateAuth response if you need to pass another challenge.

Valid values include the following. Note that all of these challenges require USERNAME and SECRET\_HASH (if applicable) in the parameters.

- SMS\_MFA: Next challenge is to supply an SMS\_MFA\_CODE, delivered via SMS.
- PASSWORD\_VERIFIER: Next challenge is to supply PASSWORD\_CLAIM\_SIGNATURE,
   PASSWORD CLAIM SECRET BLOCK, and TIMESTAMP after the client-side SRP calculations.
- CUSTOM\_CHALLENGE: This is returned if your custom authentication flow determines that the user should pass another challenge before tokens are issued.
- DEVICE\_SRP\_AUTH: If device tracking was enabled on your user pool and the previous challenges were passed, this challenge is returned so that Amazon Cognito can start tracking this device.
- DEVICE\_PASSWORD\_VERIFIER: Similar to PASSWORD\_VERIFIER, but for devices only.
- NEW\_PASSWORD\_REQUIRED: For users which are required to change their passwords after successful first login. This challenge should be passed with NEW\_PASSWORD and any other required attributes.

Type: String

```
Valid Values: SMS_MFA | SOFTWARE_TOKEN_MFA | SELECT_MFA_TYPE |
MFA_SETUP | PASSWORD_VERIFIER | CUSTOM_CHALLENGE | DEVICE_SRP_AUTH |
DEVICE_PASSWORD_VERIFIER | ADMIN_NO_SRP_AUTH | NEW_PASSWORD_REQUIRED
```

#### ChallengeParameters (p. 202)

The challenge parameters. These are returned to you in the InitiateAuth response if you need to pass another challenge. The responses in this parameter should be used to compute inputs to the next call (RespondToAuthChallenge).

#### Amazon Cognito Identity Provider API Reference Errors

All challenges require USERNAME and SECRET HASH (if applicable).

Type: String to string map

#### Session (p. 202)

The session which should be passed both ways in challenge-response calls to the service. If the InitiateAuth (p. 201) or RespondToAuthChallenge (p. 238) API call determines that the caller needs to go through another challenge, they return a session with other challenge parameters. This session should be passed as it is to the next RespondToAuthChallenge API call.

Type: String

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidLambdaResponseException

This exception is thrown when the Amazon Cognito service encounters an invalid AWS Lambda response.

HTTP Status Code: 400 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### InvalidUserPoolConfigurationException

This exception is thrown when the user pool configuration is invalid.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

#### PasswordResetRequiredException

This exception is thrown when a password reset is required.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

# HTTP Status Code: 400 UnexpectedLambdaException

This exception is thrown when the Amazon Cognito service encounters an unexpected exception with the AWS Lambda service.

HTTP Status Code: 400

#### UserLambdaValidationException

This exception is thrown when the Amazon Cognito service encounters a user validation exception with the AWS Lambda service.

HTTP Status Code: 400
UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400
UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

## ListDevices

Lists the devices.

## Request Syntax

```
{
   "AccessToken": "string",
   "Limit": number,
   "PaginationToken": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
AccessToken (p. 206)
```

The access tokens for the request to list devices.

```
Type: String

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

Required: Yes
```

The limit of the device request.

Type: Integer

Limit (p. 206)

Valid Range: Minimum value of 0. Maximum value of 60.

Required: No

#### PaginationToken (p. 206)

The pagination token for the list request.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+
Required: No

#### Amazon Cognito Identity Provider API Reference Response Elements

### **Response Elements**

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

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

```
Devices (p. 206)
```

The devices returned in the list devices response.

```
Type: Array of DeviceType (p. 328) objects
```

#### PaginationToken (p. 206)

The pagination token for the list device response.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### InvalidUserPoolConfigurationException

This exception is thrown when the user pool configuration is invalid.

HTTP Status Code: 400

#### NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

#### PasswordResetRequiredException

This exception is thrown when a password reset is required.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400
UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# ListGroups

Lists the groups associated with a user pool.

Requires developer credentials.

### Request Syntax

```
{
    "Limit": number,
    "NextToken": "string",
    "UserPoolId": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Limit (p. 209)
```

The limit of the request to list groups.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 60.

Required: No NextToken (p. 209)

An identifier that was returned from the previous call to this operation, which can be used to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+
Required: No

UserPoolId (p. 209)

The user pool ID for the user pool.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

```
{
```

#### Amazon Cognito Identity Provider API Reference Response Elements

## **Response Elements**

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

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

```
Groups (p. 209)
```

The group objects for the groups.

Type: Array of GroupType (p. 335) objects

#### NextToken (p. 209)

An identifier that was returned from the previous call to this operation, which can be used to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

#### ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

## ListIdentityProviders

Lists information about all identity providers for a user pool.

### Request Syntax

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

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
MaxResults (p. 212)

The maximum number of identity providers to return.

Type: Integer
```

Valid Range: Minimum value of 1. Maximum value of 60.

```
Required: No NextToken (p. 212)
```

A pagination token.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+

Required: No

UserPoolId (p. 212)

The user pool ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

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

#### Amazon Cognito Identity Provider API Reference Response Elements

## **Response Elements**

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

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

```
NextToken (p. 212)
```

A pagination token.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+
Providers (p. 212)

A list of identity provider objects.

Type: Array of ProviderDescription (p. 352) objects

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

#### ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

#### TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

## ListResourceServers

Lists the resource servers for a user pool.

### Request Syntax

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

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
MaxResults (p. 215)
```

The maximum number of resource servers to return.

Type: Integer

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

Required: No NextToken (p. 215)

A pagination token.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+
Required: No

The user pool ID for the user pool.

Type: String

UserPoolId (p. 215)

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

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

## **Response Elements**

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

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

```
NextToken (p. 215)
```

A pagination token.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+

#### ResourceServers (p. 215)

The resource servers.

Type: Array of ResourceServerType (p. 355) objects

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

#### ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

## ListUserImportJobs

Lists the user import jobs.

## Request Syntax

```
{
   "MaxResults": number,
   "PaginationToken": "string",
   "UserPoolId": "string"
}
```

### **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
MaxResults (p. 218)
```

The maximum number of import jobs you want the request to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 60.

Required: Yes

#### PaginationToken (p. 218)

An identifier that was returned from the previous call to ListUserImportJobs, which can be used to return the next set of import jobs in the list.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+

Required: No

#### UserPoolId (p. 218)

The user pool ID for the user pool that the users are being imported into.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

```
{
    "PaginationToken": "string",
```

```
"UserImportJobs": [
         "CloudWatchLogsRoleArn": "string",
         "CompletionDate": number,
         "CompletionMessage": "string",
         "CreationDate": number,
         "FailedUsers": number,
         "ImportedUsers": number,
         "JobId": "string",
         "JobName": "string",
         "PreSignedUrl": "string",
         "SkippedUsers": number,
         "StartDate": number,
         "Status": "string",
         "UserPoolId": "string"
   ]
}
```

## **Response Elements**

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

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

#### PaginationToken (p. 218)

An identifier that can be used to return the next set of user import jobs in the list.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+

#### UserImportJobs (p. 218)

The user import jobs.

Type: Array of UserImportJobType (p. 371) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### NotAuthorizedException

This exception is thrown when a user is not authorized.

# HTTP Status Code: 400 ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400 **TooManyRequestsException** 

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- · AWS SDK for Python
- AWS SDK for Ruby V2

## ListUserPoolClients

Lists the clients that have been created for the specified user pool.

## Request Syntax

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

### **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
MaxResults (p. 221)
```

The maximum number of results you want the request to return when listing the user pool clients.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 60.

Required: No NextToken (p. 221)

An identifier that was returned from the previous call to this operation, which can be used to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+
Required: No

UserPoolId (p. 221)

The user pool ID for the user pool where you want to list user pool clients.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

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

#### Amazon Cognito Identity Provider API Reference Response Elements

## **Response Elements**

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

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

#### NextToken (p. 221)

An identifier that was returned from the previous call to this operation, which can be used to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+
UserPoolClients (p. 221)

The user pool clients in the response that lists user pool clients.

Type: Array of UserPoolClientDescription (p. 375) objects

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400
NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

## ListUserPools

Lists the user pools associated with an AWS account.

### Request Syntax

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

### **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
MaxResults (p. 224)
```

The maximum number of results you want the request to return when listing the user pools.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 60.

Required: Yes NextToken (p. 224)

An identifier that was returned from the previous call to this operation, which can be used to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+
Required: No

#### Amazon Cognito Identity Provider API Reference Response Elements

```
"PreTokenGeneration": "string",
    "UserMigration": "string",
    "VerifyAuthChallengeResponse": "string"
},
    "LastModifiedDate": number,
    "Name": "string",
    "Status": "string"
}
```

## **Response Elements**

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

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

#### NextToken (p. 224)

An identifier that was returned from the previous call to this operation, which can be used to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+
UserPools (p. 224)

The user pools from the response to list users.

Type: Array of UserPoolDescriptionType (p. 380) objects

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500
InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

#### TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

## ListUsers

Lists the users in the Amazon Cognito user pool.

## Request Syntax

```
{
  "AttributesToGet": [ "string" ],
  "Filter": "string",
  "Limit": number,
  "PaginationToken": "string",
  "UserPoolId": "string"
}
```

### **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

#### AttributesToGet (p. 227)

An array of strings, where each string is the name of a user attribute to be returned for each user in the search results. If the array is null, all attributes are returned.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: No

Filter (p. 227)

A filter string of the form "AttributeName Filter-Type "AttributeValue"". Quotation marks within the filter string must be escaped using the backslash (\) character. For example, "family\_name = \"Reddy\"".

- AttributeName: The name of the attribute to search for. You can only search for one attribute at a time
- Filter-Type: For an exact match, use =, for example, "given\_name = \"Jon\"". For a prefix ("starts with") match, use ^=, for example, "given\_name ^= \"Jon\"".
- AttributeValue: The attribute value that must be matched for each user.

If the filter string is empty, ListUsers returns all users in the user pool.

You can only search for the following standard attributes:

- username (case-sensitive)
- email
- phone\_number
- name
- given\_name
- family\_name

#### Amazon Cognito Identity Provider API Reference Response Syntax

- preferred\_username
- cognito:user\_status (called **Status** in the Console) (case-insensitive)
- status (called **Enabled** in the Console) (case-sensitive)
- sub

Custom attributes are not searchable.

For more information, see Searching for Users Using the ListUsers API and Examples of Using the ListUsers API in the *Amazon Cognito Developer Guide*.

Type: String

Length Constraints: Maximum length of 256.

Required: No

#### Limit (p. 227)

Maximum number of users to be returned.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 60.

Required: No

#### PaginationToken (p. 227)

An identifier that was returned from the previous call to this operation, which can be used to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+

Required: No

#### UserPoolId (p. 227)

The user pool ID for the user pool on which the search should be performed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

## **Response Elements**

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

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

#### PaginationToken (p. 228)

An identifier that was returned from the previous call to this operation, which can be used to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+

#### Users (p. 228)

The users returned in the request to list users.

Type: Array of UserType (p. 388) objects

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

#### ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400 **TooManyRequestsException** 

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

## ListUsersInGroup

Lists the users in the specified group.

Requires developer credentials.

## Request Syntax

```
"GroupName": "string",
   "Limit": number,
   "NextToken": "string",
   "UserPoolId": "string"
}
```

### **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
GroupName (p. 231)
   The name of the group.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 128.
   Pattern: [\p{L}\p{M}\p{S}\p{N}\p{P}]+
   Required: Yes
Limit (p. 231)
   The limit of the request to list users.
   Type: Integer
   Valid Range: Minimum value of 0. Maximum value of 60.
   Required: No
NextToken (p. 231)
```

An identifier that was returned from the previous call to this operation, which can be used to return the next set of items in the list.

```
Type: String
   Length Constraints: Minimum length of 1.
   Pattern: [\S]+
    Required: No
UserPoolId (p. 231)
    The user pool ID for the user pool.
```

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ Required: Yes

## Response Syntax

```
"NextToken": "string",
   "Users": [
         "Attributes": [
               "Name": "string",
               "Value": "string"
         ],
         "Enabled": boolean,
         "MFAOptions": [
               "AttributeName": "string",
               "DeliveryMedium": "string"
         ],
         "UserCreateDate": number,
         "UserLastModifiedDate": number,
         "Username": "string",
         "UserStatus": "string"
   ]
}
```

## **Response Elements**

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

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

#### NextToken (p. 232)

An identifier that was returned from the previous call to this operation, which can be used to return the next set of items in the list.

Type: String

Length Constraints: Minimum length of 1.

Pattern: [\S]+ Users (p. 232)

The users returned in the request to list users.

Type: Array of UserType (p. 388) objects

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400 **TooManyRequestsException** 

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

## ResendConfirmationCode

Resends the confirmation (for confirmation of registration) to a specific user in the user pool.

### Request Syntax

```
{
    "AnalyticsMetadata": {
        "AnalyticsEndpointId": "string"
},
    "ClientId": "string",
    "SecretHash": "string",
    "UserContextData": {
        "EncodedData": "string"
},
    "Username": "string"
}
```

### Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
AnalyticsMetadata (p. 234)
```

The Amazon Pinpoint analytics metadata for collecting metrics for ResendConfirmationCode calls.

Type: AnalyticsMetadataType (p. 314) object

Required: No

#### ClientId (p. 234)

The ID of the client associated with the user pool.

Type: String

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

Pattern: [\w+]+

Required: Yes

#### SecretHash (p. 234)

A keyed-hash message authentication code (HMAC) calculated using the secret key of a user pool client and username plus the client ID in the message.

Type: String

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

Pattern:  $[\w+=/]+$ 

Required: No

#### UserContextData (p. 234)

Contextual data such as the user's device fingerprint, IP address, or location used for evaluating the risk of an unexpected event by Amazon Cognito advanced security.

Type: UserContextDataType (p. 370) object

Required: No

#### Username (p. 234)

The user name of the user to whom you wish to resend a confirmation code.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: Yes

### Response Syntax

```
{
    "CodeDeliveryDetails": {
        "AttributeName": "string",
        "DeliveryMedium": "string",
        "Destination": "string"
}
```

## **Response Elements**

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

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

#### CodeDeliveryDetails (p. 235)

The code delivery details returned by the server in response to the request to resend the confirmation code.

Type: CodeDeliveryDetailsType (p. 321) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### CodeDeliveryFailureException

This exception is thrown when a verification code fails to deliver successfully.

HTTP Status Code: 400

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

### Amazon Cognito Identity Provider API Reference Errors

HTTP Status Code: 500

### InvalidEmailRoleAccessPolicyException

This exception is thrown when Amazon Cognito is not allowed to use your email identity. HTTP status code: 400.

HTTP Status Code: 400

### InvalidLambdaResponseException

This exception is thrown when the Amazon Cognito service encounters an invalid AWS Lambda response.

HTTP Status Code: 400 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

#### InvalidSmsRoleAccessPolicyException

This exception is returned when the role provided for SMS configuration does not have permission to publish using Amazon SNS.

HTTP Status Code: 400

### Invalid Sms Role Trust Relationship Exception

This exception is thrown when the trust relationship is invalid for the role provided for SMS configuration. This can happen if you do not trust **cognito-idp.amazonaws.com** or the external ID provided in the role does not match what is provided in the SMS configuration for the user pool.

HTTP Status Code: 400
LimitExceededException

This exception is thrown when a user exceeds the limit for a requested AWS resource.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### UnexpectedLambdaException

This exception is thrown when the Amazon Cognito service encounters an unexpected exception with the AWS Lambda service.

HTTP Status Code: 400

### User Lamb da Validation Exception

This exception is thrown when the Amazon Cognito service encounters a user validation exception with the AWS Lambda service.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# RespondToAuthChallenge

Responds to the authentication challenge.

## Request Syntax

```
{
    "AnalyticsMetadata": {
        "AnalyticsEndpointId": "string"
},
    "ChallengeName": "string",
    "ChallengeResponses": {
        "string" : "string"
},
    "ClientId": "string",
    "Session": "string",
    "UserContextData": {
        "EncodedData": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

### AnalyticsMetadata (p. 238)

The Amazon Pinpoint analytics metadata for collecting metrics for RespondToAuthChallenge calls.

Type: AnalyticsMetadataType (p. 314) object

Required: No

### ChallengeName (p. 238)

The challenge name. For more information, see InitiateAuth (p. 201).

ADMIN NO SRP AUTH is not a valid value.

Type: String

Valid Values: SMS\_MFA | SOFTWARE\_TOKEN\_MFA | SELECT\_MFA\_TYPE |
MFA\_SETUP | PASSWORD\_VERIFIER | CUSTOM\_CHALLENGE | DEVICE\_SRP\_AUTH |
DEVICE\_PASSWORD\_VERIFIER | ADMIN\_NO\_SRP\_AUTH | NEW\_PASSWORD\_REQUIRED

Required: Yes

### ChallengeResponses (p. 238)

The challenge responses. These are inputs corresponding to the value of ChallengeName, for example:

- SMS\_MFA: SMS\_MFA\_CODE, USERNAME, SECRET\_HASH (if app client is configured with client secret).
- PASSWORD\_VERIFIER: PASSWORD\_CLAIM\_SIGNATURE, PASSWORD\_CLAIM\_SECRET\_BLOCK, TIMESTAMP, USERNAME, SECRET\_HASH (if app client is configured with client secret).

### Amazon Cognito Identity Provider API Reference Response Syntax

NEW\_PASSWORD\_REQUIRED: NEW\_PASSWORD, any other required attributes, USERNAME,
 SECRET HASH (if app client is configured with client secret).

Type: String to string map

Required: No

#### ClientId (p. 238)

The app client ID.

Type: String

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

Pattern: [\w+]+

Required: Yes

### Session (p. 238)

The session which should be passed both ways in challenge-response calls to the service. If InitiateAuth or RespondToAuthChallenge API call determines that the caller needs to go through another challenge, they return a session with other challenge parameters. This session should be passed as it is to the next RespondToAuthChallenge API call.

Type: String

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

Required: No

#### UserContextData (p. 238)

Contextual data such as the user's device fingerprint, IP address, or location used for evaluating the risk of an unexpected event by Amazon Cognito advanced security.

Type: UserContextDataType (p. 370) object

Required: No

### Response Syntax

```
"AuthenticationResult": {
    "AccessToken": "string",
    "ExpiresIn": number,
    "IdToken": "string",
    "NewDeviceMetadata": {
        "DeviceGroupKey": "string",
        "DeviceKey": "string"
      },
      "RefreshToken": "string",
      "TokenType": "string"
},
    "ChallengeName": "string",
    "ChallengeParameters": {
        "string" : "string"
    },
    "Session": "string"
}
```

## **Response Elements**

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

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

### AuthenticationResult (p. 239)

The result returned by the server in response to the request to respond to the authentication challenge.

Type: AuthenticationResultType (p. 316) object

### ChallengeName (p. 239)

The challenge name. For more information, see InitiateAuth (p. 201).

Type: String

```
Valid Values: SMS_MFA | SOFTWARE_TOKEN_MFA | SELECT_MFA_TYPE |
MFA_SETUP | PASSWORD_VERIFIER | CUSTOM_CHALLENGE | DEVICE_SRP_AUTH |
DEVICE_PASSWORD_VERIFIER | ADMIN_NO_SRP_AUTH | NEW_PASSWORD_REQUIRED
```

#### ChallengeParameters (p. 239)

The challenge parameters. For more information, see InitiateAuth (p. 201).

Type: String to string map

### Session (p. 239)

The session which should be passed both ways in challenge-response calls to the service. If the InitiateAuth (p. 201) or RespondToAuthChallenge (p. 238) API call determines that the caller needs to go through another challenge, they return a session with other challenge parameters. This session should be passed as it is to the next RespondToAuthChallenge API call.

Type: String

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### AliasExistsException

This exception is thrown when a user tries to confirm the account with an email or phone number that has already been supplied as an alias from a different account. This exception tells user that an account with this email or phone already exists.

HTTP Status Code: 400

### CodeMismatchException

This exception is thrown if the provided code does not match what the server was expecting.

HTTP Status Code: 400

### ExpiredCodeException

This exception is thrown if a code has expired.

### Amazon Cognito Identity Provider API Reference Errors

HTTP Status Code: 400
InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

#### InvalidLambdaResponseException

This exception is thrown when the Amazon Cognito service encounters an invalid AWS Lambda response.

HTTP Status Code: 400 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 InvalidPasswordException

This exception is thrown when the Amazon Cognito service encounters an invalid password.

HTTP Status Code: 400

#### InvalidSmsRoleAccessPolicyException

This exception is returned when the role provided for SMS configuration does not have permission to publish using Amazon SNS.

HTTP Status Code: 400

#### InvalidSmsRoleTrustRelationshipException

This exception is thrown when the trust relationship is invalid for the role provided for SMS configuration. This can happen if you do not trust **cognito-idp.amazonaws.com** or the external ID provided in the role does not match what is provided in the SMS configuration for the user pool.

HTTP Status Code: 400

### InvalidUserPoolConfigurationException

This exception is thrown when the user pool configuration is invalid.

HTTP Status Code: 400

MFAMethodNotFoundException

This exception is thrown when Amazon Cognito cannot find a multi-factor authentication (MFA) method.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

### PasswordResetRequiredException

This exception is thrown when a password reset is required.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

#### SoftwareTokenMFANotFoundException

This exception is thrown when the software token TOTP multi-factor authentication (MFA) is not enabled for the user pool.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400
UnexpectedLambdaException

This exception is thrown when the Amazon Cognito service encounters an unexpected exception with the AWS Lambda service.

HTTP Status Code: 400

### UserLambdaValidationException

This exception is thrown when the Amazon Cognito service encounters a user validation exception with the AWS Lambda service.

HTTP Status Code: 400
UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- · AWS SDK for .NFT
- · AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# SetRiskConfiguration

Configures actions on detected risks. To delete the risk configuration for UserPoolId or ClientId, pass null values for all four configuration types.

To enable Amazon Cognito advanced security features, update the user pool to include the UserPoolAddOns keyAdvancedSecurityMode.

See UpdateUserPool (p. 288).

## Request Syntax

```
"AccountTakeoverRiskConfiguration": {
      "Actions": {
         "HighAction": {
            "EventAction": "string",
            "Notify": boolean
         "LowAction": {
            "EventAction": "string",
            "Notify": boolean
         "MediumAction": {
            "EventAction": "string",
            "Notify": boolean
         }
      "NotifyConfiguration": {
         "BlockEmail": {
           "HtmlBody": "string",
            "Subject": "string",
            "TextBody": "string"
         "From": "string",
         "MfaEmail": {
            "HtmlBody": "string",
            "Subject": "string",
            "TextBody": "string"
         },
         "NoActionEmail": {
            "HtmlBody": "string",
            "Subject": "string",
            "TextBody": "string"
         "ReplyTo": "string",
         "SourceArn": "string"
      }
   },
   "ClientId": "string",
   "CompromisedCredentialsRiskConfiguration": {
      "Actions": {
         "EventAction": "string"
      "EventFilter": [ "string" ]
   "RiskExceptionConfiguration": {
      "BlockedIPRangeList": [ "string" ],
      "SkippedIPRangeList": [ "string" ]
   },
   "UserPoolId": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

### AccountTakeoverRiskConfiguration (p. 243)

The account takeover risk configuration.

Type: AccountTakeoverRiskConfigurationType (p. 311) object

Required: No ClientId (p. 243)

The app client ID. If ClientId is null, then the risk configuration is mapped to userPoolId. When the client ID is null, the same risk configuration is applied to all the clients in the userPool.

Otherwise, ClientId is mapped to the client. When the client ID is not null, the user pool configuration is overridden and the risk configuration for the client is used instead.

Type: String

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

Pattern: [\w+]+

Required: No

### CompromisedCredentialsRiskConfiguration (p. 243)

The compromised credentials risk configuration.

Type: CompromisedCredentialsRiskConfigurationType (p. 323) object

Required: No

### RiskExceptionConfiguration (p. 243)

The configuration to override the risk decision.

Type: RiskExceptionConfigurationType (p. 359) object

Required: No

### UserPoolId (p. 243)

The user pool ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

## Response Syntax

{

```
"RiskConfiguration": {
      "AccountTakeoverRiskConfiguration": {
         "Actions": {
            "HighAction": {
               "EventAction": "string",
               "Notify": boolean
            "LowAction": {
               "EventAction": "string",
               "Notify": boolean
            "MediumAction": {
               "EventAction": "string",
               "Notify": boolean
            }
         },
"NotifyConfiguration": {
            "BlockEmail": {
               "HtmlBody": "string",
               "Subject": "string",
               "TextBody": "string"
            "From": "string",
            "MfaEmail": {
               "HtmlBody": "string",
               "Subject": "string",
               "TextBody": "string"
            "NoActionEmail": {
               "HtmlBody": "string",
               "Subject": "string",
               "TextBody": "string"
            "ReplyTo": "string",
            "SourceArn": "string"
         }
      },
      "ClientId": "string",
      "CompromisedCredentialsRiskConfiguration": {
         "Actions": {
            "EventAction": "string"
         "EventFilter": [ "string" ]
      },
      "LastModifiedDate": number,
      "RiskExceptionConfiguration": {
         "BlockedIPRangeList": [ "string" ],
         "SkippedIPRangeList": [ "string" ]
      "UserPoolId": "string"
   }
}
```

## **Response Elements**

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

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

### RiskConfiguration (p. 244)

The risk configuration.

Type: RiskConfigurationType (p. 357) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### CodeDeliveryFailureException

This exception is thrown when a verification code fails to deliver successfully.

HTTP Status Code: 400
InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

### InvalidEmailRoleAccessPolicyException

This exception is thrown when Amazon Cognito is not allowed to use your email identity. HTTP status code: 400.

HTTP Status Code: 400 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400
NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

UserPoolAddOnNotEnabledException

This exception is thrown when user pool add-ons are not enabled.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- · AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java

- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

## SetUlCustomization

Sets the UI customization information for a user pool's built-in app UI.

You can specify app UI customization settings for a single client (with a specific clientId) or for all clients (by setting the clientId to ALL). If you specify ALL, the default configuration will be used for every client that has no UI customization set previously. If you specify UI customization settings for a particular client, it will no longer fall back to the ALL configuration.

#### Note

To use this API, your user pool must have a domain associated with it. Otherwise, there is no place to host the app's pages, and the service will throw an error.

## Request Syntax

```
{
    "ClientId": "string",
    "CSS": "string",
    "ImageFile": blob,
    "UserPoolId": "string"
}
```

## **Request Parameters**

The user pool ID for the user pool.

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
ClientId (p. 248)

The client ID for the client app.

Type: String

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

Pattern: [\w+]+

Required: No

CSS (p. 248)

The CSS values in the UI customization.

Type: String

Required: No

ImageFile (p. 248)

The uploaded logo image for the UI customization.

Type: Base64-encoded binary data object

Required: No

UserPoolId (p. 248)
```

### Amazon Cognito Identity Provider API Reference Response Syntax

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

## **Response Syntax**

```
{
   "UICustomization": {
      "ClientId": "string",
      "CreationDate": number,
      "CSS": "string",
      "CSSVersion": "string",
      "ImageUrl": "string",
      "LastModifiedDate": number,
      "UserPoolId": "string"
   }
}
```

## **Response Elements**

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

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

**UICustomization (p. 249)** 

The UI customization information.

Type: UICustomizationType (p. 368) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

### ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

## SetUserMFAPreference

Set the user's multi-factor authentication (MFA) method preference.

## Request Syntax

```
{
   "AccessToken": "string",
   "SMSMfaSettings": {
        "Enabled": boolean,
        "PreferredMfa": boolean
},
   "SoftwareTokenMfaSettings": {
        "Enabled": boolean,
        "PreferredMfa": boolean
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
AccessToken (p. 251)

The access token.

Type: String

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

Required: Yes

SMSMfaSettings (p. 251)

The SMS text message multi-factor authentication (MFA) settings.

Type: SMSMfaSettingsType (p. 364) object

Required: No

SoftwareTokenMfaSettings (p. 251)

The time-based one-time password software token MFA settings.

Type: SoftwareTokenMfaSettingsType (p. 366) object

Required: No
```

## **Response Elements**

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

### Password Reset Required Exception

This exception is thrown when a password reset is required.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400
UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400
UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- · AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# SetUserPoolMfaConfig

Set the user pool MFA configuration.

## Request Syntax

```
{
    "MfaConfiguration": "string",
    "SmsMfaConfiguration": {
        "SmsAuthenticationMessage": "string",
        "SmsConfiguration": {
            "ExternalId": "string",
            "SnsCallerArn": "string"
        }
    },
    "SoftwareTokenMfaConfiguration": {
        "Enabled": boolean
    },
    "UserPoolId": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
MfaConfiguration (p. 253)
   The MFA configuration.
   Type: String
   Valid Values: OFF | ON | OPTIONAL
    Required: No
SmsMfaConfiguration (p. 253)
   The SMS text message MFA configuration.
    Type: SmsMfaConfigType (p. 363) object
    Required: No
SoftwareTokenMfaConfiguration (p. 253)
   The software token MFA configuration.
    Type: SoftwareTokenMfaConfigType (p. 365) object
    Required: No
UserPoolId (p. 253)
   The user pool ID.
    Type: String
   Length Constraints: Minimum length of 1. Maximum length of 55.
```

```
Pattern: [\w-]+_[0-9a-zA-Z]+
Required: Yes
```

## Response Syntax

```
{
    "MfaConfiguration": "string",
    "SmsMfaConfiguration": {
        "SmsAuthenticationMessage": "string",
        "ExternalId": "string",
        "snsCallerArn": "string"
     }
},
    "SoftwareTokenMfaConfiguration": {
        "Enabled": boolean
}
```

# **Response Elements**

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

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

```
MfaConfiguration (p. 254)
```

The MFA configuration.

Type: String

Valid Values: OFF | ON | OPTIONAL

SmsMfaConfiguration (p. 254)

The SMS text message MFA configuration.

Type: SmsMfaConfigType (p. 363) object SoftwareTokenMfaConfiguration (p. 254)

The software token MFA configuration.

Type: SoftwareTokenMfaConfigType (p. 365) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500
InvalidParameterException

### This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

### InvalidSmsRoleAccessPolicyException

This exception is returned when the role provided for SMS configuration does not have permission to publish using Amazon SNS.

HTTP Status Code: 400

### Invalid Sms Role Trust Relation ship Exception

This exception is thrown when the trust relationship is invalid for the role provided for SMS configuration. This can happen if you do not trust **cognito-idp.amazonaws.com** or the external ID provided in the role does not match what is provided in the SMS configuration for the user pool.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# SetUserSettings

Sets the user settings like multi-factor authentication (MFA). If MFA is to be removed for a particular attribute pass the attribute with code delivery as null. If null list is passed, all MFA options are removed.

## Request Syntax

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
AccessToken (p. 256)
```

The access token for the set user settings request.

```
Type: String

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

Required: Yes

MFAOptions (p. 256)
```

Specifies the options for MFA (e.g., email or phone number).

Type: Array of MFAOptionType (p. 344) objects

Required: Yes

## **Response Elements**

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

### PasswordResetRequiredException

This exception is thrown when a password reset is required.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400
UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400
UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# SignUp

Registers the user in the specified user pool and creates a user name, password, and user attributes.

## **Request Syntax**

```
"AnalyticsMetadata": {
      "AnalyticsEndpointId": "string"
   "ClientId": "string",
   "Password": "string",
   "SecretHash": "string",
   "UserAttributes": [
         "Name": "string",
         "Value": "string"
   ],
   "UserContextData": {
     "EncodedData": "string"
   "Username": "string",
   "ValidationData": [
         "Name": "string",
         "Value": "string"
   ]
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

### AnalyticsMetadata (p. 258)

The Amazon Pinpoint analytics metadata for collecting metrics for SignUp calls.

Type: AnalyticsMetadataType (p. 314) object

Required: No ClientId (p. 258)

The ID of the client associated with the user pool.

Type: String

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

Pattern: [\w+]+

Required: Yes

Password (p. 258)

The password of the user you wish to register.

### Amazon Cognito Identity Provider API Reference Response Syntax

```
Type: String

Length Constraints: Minimum length of 6. Maximum length of 256.

Pattern: [\s]+

Required: Yes

SecretHash (p. 258)

A keyed-hash message authentication code (HMAC) calculated using the secret key of a user pool client and username plus the client ID in the message.
```

Type: String

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

Pattern: [\w+=/]+
Required: No

### **UserAttributes (p. 258)**

An array of name-value pairs representing user attributes.

For custom attributes, you must prepend the custom: prefix to the attribute name.

Type: Array of AttributeType (p. 315) objects

Required: No

### UserContextData (p. 258)

Contextual data such as the user's device fingerprint, IP address, or location used for evaluating the risk of an unexpected event by Amazon Cognito advanced security.

Type: UserContextDataType (p. 370) object

Required: No Username (p. 258)

The user name of the user you wish to register.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: Yes

### ValidationData (p. 258)

The validation data in the request to register a user.

Type: Array of AttributeType (p. 315) objects

Required: No

## Response Syntax

```
{
    "CodeDeliveryDetails": {
        "AttributeName": "string",
```

### Amazon Cognito Identity Provider API Reference Response Elements

```
"DeliveryMedium": "string",
    "Destination": "string"
},
"UserConfirmed": boolean,
    "UserSub": "string"
}
```

## **Response Elements**

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

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

### CodeDeliveryDetails (p. 259)

The code delivery details returned by the server response to the user registration request.

Type: CodeDeliveryDetailsType (p. 321) object

### UserConfirmed (p. 259)

A response from the server indicating that a user registration has been confirmed.

Type: Boolean UserSub (p. 259)

The UUID of the authenticated user. This is not the same as username.

Type: String

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### CodeDeliveryFailureException

This exception is thrown when a verification code fails to deliver successfully.

HTTP Status Code: 400 InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

### InvalidEmailRoleAccessPolicyException

This exception is thrown when Amazon Cognito is not allowed to use your email identity. HTTP status code: 400.

HTTP Status Code: 400

#### InvalidLambdaResponseException

This exception is thrown when the Amazon Cognito service encounters an invalid AWS Lambda response.

HTTP Status Code: 400

### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 InvalidPasswordException

This exception is thrown when the Amazon Cognito service encounters an invalid password.

HTTP Status Code: 400

### InvalidSmsRoleAccessPolicyException

This exception is returned when the role provided for SMS configuration does not have permission to publish using Amazon SNS.

HTTP Status Code: 400

### InvalidSmsRoleTrustRelationshipException

This exception is thrown when the trust relationship is invalid for the role provided for SMS configuration. This can happen if you do not trust **cognito-idp.amazonaws.com** or the external ID provided in the role does not match what is provided in the SMS configuration for the user pool.

HTTP Status Code: 400 NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400
UnexpectedLambdaException

This exception is thrown when the Amazon Cognito service encounters an unexpected exception with the AWS Lambda service.

HTTP Status Code: 400

### UserLambdaValidationException

This exception is thrown when the Amazon Cognito service encounters a user validation exception with the AWS Lambda service.

HTTP Status Code: 400

#### UsernameExistsException

This exception is thrown when Amazon Cognito encounters a user name that already exists in the user pool.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# StartUserImportJob

Starts the user import.

## Request Syntax

```
{
   "JobId": "string",
   "UserPoolId": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Jobid (p. 263)
```

The job ID for the user import job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern: import-[0-9a-zA-Z-]+

Required: Yes

UserPoolId (p. 263)

The user pool ID for the user pool that the users are being imported into.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

## Response Syntax

```
{
   "UserImportJob": {
      "CloudWatchLogsRoleArn": "string",
      "CompletionDate": number,
      "CompletionMessage": "string",
      "CreationDate": number,
      "FailedUsers": number,
      "ImportedUsers": number,
      "JobId": "string",
      "JobName": "string",
      "PreSignedUrl": "string",
      "SkippedUsers": number,
      "StartDate": number,
```

### Amazon Cognito Identity Provider API Reference Response Elements

```
"Status": "string",
    "UserPoolId": "string"
}
```

## **Response Elements**

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

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

### UserImportJob (p. 263)

The job object that represents the user import job.

Type: UserImportJobType (p. 371) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
PreconditionNotMetException

This exception is thrown when a precondition is not met.

HTTP Status Code: 400

### ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

### TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# StopUserImportJob

Stops the user import job.

## Request Syntax

```
{
   "JobId": "string",
   "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Jobid (p. 266)
```

The job ID for the user import job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern: import-[0-9a-zA-Z-]+

Required: Yes

UserPoolId (p. 266)

The user pool ID for the user pool that the users are being imported into.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

## Response Syntax

```
"UserImportJob": {
    "CloudWatchLogsRoleArn": "string",
    "CompletionDate": number,
    "CompletionMessage": "string",
    "CreationDate": number,
    "FailedUsers": number,
    "ImportedUsers": number,
    "JobId": "string",
    "JobName": "string",
    "PreSignedUrl": "string",
    "SkippedUsers": number,
    "StartDate": number,
```

### Amazon Cognito Identity Provider API Reference Response Elements

```
"Status": "string",
    "UserPoolId": "string"
}
```

## **Response Elements**

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

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

### UserImportJob (p. 266)

The job object that represents the user import job.

Type: UserImportJobType (p. 371) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

#### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
PreconditionNotMetException

This exception is thrown when a precondition is not met.

HTTP Status Code: 400

### ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

### TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

### See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# UpdateAuthEventFeedback

Provides the feedback for an authentication event whether it was from a valid user or not. This feedback is used for improving the risk evaluation decision for the user pool as part of Amazon Cognito advanced security.

## Request Syntax

```
"EventId": "string",
    "FeedbackToken": "string",
    "FeedbackValue": "string",
    "Username": "string",
    "UserPoolId": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
EventId (p. 269)
   The event ID.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 50.
   Pattern: [\w+-]+
   Required: Yes
FeedbackToken (p. 269)
   The feedback token.
   Type: String
   Pattern: [A-Za-z0-9-_=.]+
   Required: Yes
FeedbackValue (p. 269)
   The authentication event feedback value.
   Type: String
   Valid Values: Valid | Invalid
   Required: Yes
Username (p. 269)
   The user pool username.
   Type: String
```

### Amazon Cognito Identity Provider API Reference Response Elements

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: Yes
UserPoolId (p. 269)

The user pool ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

## **Response Elements**

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

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500
InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

UserPoolAddOnNotEnabledException

This exception is thrown when user pool add-ons are not enabled.

HTTP Status Code: 400

## See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# **UpdateDeviceStatus**

Updates the device status.

# **Request Syntax**

```
{
   "AccessToken": "string",
   "DeviceKey": "string",
   "DeviceRememberedStatus": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
AccessToken (p. 272)
   The access token.
   Type: String
   Pattern: [A-Za-z0-9-_=.]+
   Required: Yes
DeviceKey (p. 272)
   The device key.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 55.
   Pattern: [\w-]+_[0-9a-f-]+
   Required: Yes
DeviceRememberedStatus (p. 272)
   The status of whether a device is remembered.
   Type: String
   Valid Values: remembered | not_remembered
   Required: No
```

# **Response Elements**

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

# **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

## InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

### InvalidUserPoolConfigurationException

This exception is thrown when the user pool configuration is invalid.

HTTP Status Code: 400
NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

#### PasswordResetRequiredException

This exception is thrown when a password reset is required.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400
UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

# See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# **UpdateGroup**

Updates the specified group with the specified attributes.

Requires developer credentials.

# **Request Syntax**

```
{
   "Description": "string",
   "GroupName": "string",
   "Precedence": number,
   "RoleArn": "string",
   "UserPoolId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Description (p. 275)
```

A string containing the new description of the group.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

# GroupName (p. 275)

The name of the group.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: Yes

### Precedence (p. 275)

The new precedence value for the group. For more information about this parameter, see CreateGroup (p. 101).

Type: Integer

Valid Range: Minimum value of 0.

Required: No

# RoleArn (p. 275)

The new role ARN for the group. This is used for setting the cognito:roles and cognito:preferred\_role claims in the token.

```
Type: String
```

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

```
Pattern: arn: [\w+=/, .@-]+: [\w+=/, .@-]+: [\w+=/, .@-]*)?: [0-9]+: [\w+=/, .@-]+(: [\w+=/, .@-]+)?
```

Required: No

### UserPoolId (p. 275)

The user pool ID for the user pool.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# Response Syntax

```
"Group": {
    "CreationDate": number,
    "Description": "string",
    "GroupName": "string",
    "LastModifiedDate": number,
    "Precedence": number,
    "RoleArn": "string",
    "UserPoolId": "string"
}
```

# **Response Elements**

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

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

## **Group (p. 276)**

The group object for the group.

Type: GroupType (p. 335) object

# **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

## InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

## InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400
NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

# See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# **UpdateIdentityProvider**

Updates identity provider information for a user pool.

# Request Syntax

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
AttributeMapping (p. 278)
```

The identity provider attribute mapping to be changed.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 32.

Required: No

IdpIdentifiers (p. 278)

A list of identity provider identifiers.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 40.

Pattern:  $[\w\s+=.@-]+$ 

Required: No

ProviderDetails (p. 278)

The identity provider details to be updated, such as MetadataURL and MetadataFile.

Type: String to string map

Required: No

ProviderName (p. 278)

The identity provider name.

```
Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: [\p{L}\p{M}\p{S}\p{N}\p{P}]+

Required: Yes

UserPoolId (p. 278)

The user pool ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern: [\w-]+_[0-9a-zA-Z]+

Required: Yes
```

# Response Syntax

```
{
    "IdentityProvider": {
        "string" : "string"
      },
      "CreationDate": number,
      "IdpIdentifiers": [ "string" ],
      "LastModifiedDate": number,
      "ProviderDetails": {
        "string" : "string"
      },
      "ProviderName": "string",
      "ProviderType": "string",
      "UserPoolId": "string"
    }
}
```

# **Response Elements**

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

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

```
IdentityProvider (p. 279)
```

The identity provider object.

Type: IdentityProviderType (p. 338) object

# **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

UnsupportedIdentityProviderException

This exception is thrown when the specified identifier is not supported.

HTTP Status Code: 400

# See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# **UpdateResourceServer**

Updates the name and scopes of resource server. All other fields are read-only.

# Request Syntax

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
Identifier (p. 281)
    The identifier for the resource server.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 256.
   Pattern: [\x21\x23-\x5B\x5D-\x7E]+
    Required: Yes
Name (p. 281)
   The name of the resource server.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 256.
   Pattern: [\w\s+=, .@-]+
    Required: Yes
Scopes (p. 281)
   The scope values to be set for the resource server.
    Type: Array of ResourceServerScopeType (p. 354) objects
    Array Members: Maximum number of 25 items.
    Required: No
```

## UserPoolId (p. 281)

The user pool ID for the user pool.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# Response Syntax

# **Response Elements**

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

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

# ResourceServer (p. 282)

The resource server.

Type: ResourceServerType (p. 355) object

# **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

# InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

### NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400 **TooManyRequestsException** 

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

# See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# UpdateUserAttributes

Allows a user to update a specific attribute (one at a time).

# Request Syntax

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

# AccessToken (p. 284)

The access token for the request to update user attributes.

```
Type: String

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

Required: Yes

UserAttributes (p. 284)
```

An array of name-value pairs representing user attributes.

For custom attributes, you must prepend the custom: prefix to the attribute name.

Type: Array of AttributeType (p. 315) objects

Required: Yes

# Response Syntax

# **Response Elements**

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

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

# CodeDeliveryDetailsList (p. 284)

The code delivery details list from the server for the request to update user attributes.

Type: Array of CodeDeliveryDetailsType (p. 321) objects

# **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

# AliasExistsException

This exception is thrown when a user tries to confirm the account with an email or phone number that has already been supplied as an alias from a different account. This exception tells user that an account with this email or phone already exists.

HTTP Status Code: 400

CodeDeliveryFailureException

This exception is thrown when a verification code fails to deliver successfully.

HTTP Status Code: 400

CodeMismatchException

This exception is thrown if the provided code does not match what the server was expecting.

HTTP Status Code: 400 ExpiredCodeException

This exception is thrown if a code has expired.

HTTP Status Code: 400
InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

InvalidEmailRoleAccessPolicyException

This exception is thrown when Amazon Cognito is not allowed to use your email identity. HTTP status code: 400.

HTTP Status Code: 400

# InvalidLambdaResponseException

This exception is thrown when the Amazon Cognito service encounters an invalid AWS Lambda response.

HTTP Status Code: 400

### Amazon Cognito Identity Provider API Reference Errors

## InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

# InvalidSmsRoleAccessPolicyException

This exception is returned when the role provided for SMS configuration does not have permission to publish using Amazon SNS.

HTTP Status Code: 400

# InvalidSmsRoleTrustRelationshipException

This exception is thrown when the trust relationship is invalid for the role provided for SMS configuration. This can happen if you do not trust **cognito-idp.amazonaws.com** or the external ID provided in the role does not match what is provided in the SMS configuration for the user pool.

HTTP Status Code: 400

# ${\bf Not Authorized Exception}$

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

### PasswordResetRequiredException

This exception is thrown when a password reset is required.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

# UnexpectedLambdaException

This exception is thrown when the Amazon Cognito service encounters an unexpected exception with the AWS Lambda service.

HTTP Status Code: 400

# UserLambdaValidationException

This exception is thrown when the Amazon Cognito service encounters a user validation exception with the AWS Lambda service.

HTTP Status Code: 400

#### UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400

### UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

# See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# **UpdateUserPool**

Updates the specified user pool with the specified attributes. If you don't provide a value for an attribute, it will be set to the default value. You can get a list of the current user pool settings with DescribeUserPool (p. 158).

# Request Syntax

```
"AdminCreateUserConfig": {
  "AllowAdminCreateUserOnly": boolean,
   "InviteMessageTemplate": {
     "EmailMessage": "string",
      "EmailSubject": "string",
     "SMSMessage": "string"
   },
   "UnusedAccountValidityDays": number
},
"AutoVerifiedAttributes": [ "string" ],
"DeviceConfiguration": {
   "ChallengeRequiredOnNewDevice": boolean,
   "DeviceOnlyRememberedOnUserPrompt": boolean
},
"EmailConfiguration": {
   "ReplyToEmailAddress": "string",
   "SourceArn": "string"
"EmailVerificationMessage": "string",
"EmailVerificationSubject": "string",
"LambdaConfig": {
  "CreateAuthChallenge": "string",
  "CustomMessage": "string",
  "DefineAuthChallenge": "string",
   "PostAuthentication": "string",
   "PostConfirmation": "string",
   "PreAuthentication": "string",
  "PreSignUp": "string"
  "PreTokenGeneration": "string",
   "UserMigration": "string",
   "VerifyAuthChallengeResponse": "string"
},
"MfaConfiguration": "string",
"Policies": {
   "PasswordPolicy": {
      "MinimumLength": number,
      "RequireLowercase": boolean,
      "RequireNumbers": boolean,
      "RequireSymbols": boolean,
      "RequireUppercase": boolean
   }
},
"SmsAuthenticationMessage": "string",
"SmsConfiguration": {
  "ExternalId": "string",
   "SnsCallerArn": "string"
},
"SmsVerificationMessage": "string",
"UserPoolAddOns": {
   "AdvancedSecurityMode": "string"
"UserPoolId": "string",
"UserPoolTags": {
```

### Amazon Cognito Identity Provider API Reference Request Parameters

```
"string" : "string"
},

"VerificationMessageTemplate": {
    "DefaultEmailOption": "string",
    "EmailMessage": "string",
    "EmailMessageByLink": "string",
    "EmailSubject": "string",
    "EmailSubjectByLink": "string",
    "SmsMessage": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
AdminCreateUserConfig (p. 288)
```

The configuration for AdminCreateUser requests.

Type: AdminCreateUserConfigType (p. 312) object

Required: No

#### AutoVerifiedAttributes (p. 288)

The attributes that are automatically verified when the Amazon Cognito service makes a request to update user pools.

```
Type: Array of strings
```

Valid Values: phone\_number | email

Required: No

## DeviceConfiguration (p. 288)

Device configuration.

Type: DeviceConfigurationType (p. 326) object

Required: No

# **EmailConfiguration (p. 288)**

Email configuration.

Type: EmailConfigurationType (p. 331) object

Required: No

# EmailVerificationMessage (p. 288)

The contents of the email verification message.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 20000.

Pattern: [\p{L}\p{M}\p{S}\p{N}\p{P}\s\*]\*\{###\}
[\p{L}\p{M}\p{S}\p{N}\p{P}\s\*]\*

### Amazon Cognito Identity Provider API Reference Request Parameters

```
Required: No
```

### EmailVerificationSubject (p. 288)

The subject of the email verification message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 140.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}\s]+$ 

Required: No

## LambdaConfig (p. 288)

The AWS Lambda configuration information from the request to update the user pool.

Type: LambdaConfigType (p. 340) object

Required: No

# MfaConfiguration (p. 288)

Can be one of the following values:

- OFF MFA tokens are not required and cannot be specified during user registration.
- ON MFA tokens are required for all user registrations. You can only specify required when you are initially creating a user pool.
- OPTIONAL Users have the option when registering to create an MFA token.

Type: String

Valid Values: OFF | ON | OPTIONAL

Required: No Policies (p. 288)

A container with the policies you wish to update in a user pool.

Type: UserPoolPolicyType (p. 382) object

Required: No

### SmsAuthenticationMessage (p. 288)

The contents of the SMS authentication message.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 140.

Pattern: . \* \ { #### \ } . \*

Required: No

# SmsConfiguration (p. 288)

SMS configuration.

Type: SmsConfigurationType (p. 362) object

Required: No

# SmsVerificationMessage (p. 288)

A container with information about the SMS verification message.

## Amazon Cognito Identity Provider API Reference Response Elements

Type: String

Length Constraints: Minimum length of 6. Maximum length of 140.

Pattern: . \* \ { #### \ } . \*

Required: No

### UserPoolAddOns (p. 288)

Used to enable advanced security risk detection. Set the key AdvancedSecurityMode to the value "AUDIT".

Type: UserPoolAddOnsType (p. 374) object

Required: No UserPoolId (p. 288)

The user pool ID for the user pool you want to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: Yes

# UserPoolTags (p. 288)

The cost allocation tags for the user pool. For more information, see Adding Cost Allocation Tags to Your User Pool

Type: String to string map

Required: No

# VerificationMessageTemplate (p. 288)

The template for verification messages.

Type: VerificationMessageTemplateType (p. 390) object

Required: No

# **Response Elements**

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

# **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

# ConcurrentModificationException

This exception is thrown if two or more modifications are happening concurrently.

HTTP Status Code: 400

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

### InvalidEmailRoleAccessPolicyException

This exception is thrown when Amazon Cognito is not allowed to use your email identity. HTTP status code: 400.

HTTP Status Code: 400
InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

### InvalidSmsRoleAccessPolicyException

This exception is returned when the role provided for SMS configuration does not have permission to publish using Amazon SNS.

HTTP Status Code: 400

### InvalidSmsRoleTrustRelationshipException

This exception is thrown when the trust relationship is invalid for the role provided for SMS configuration. This can happen if you do not trust **cognito-idp.amazonaws.com** or the external ID provided in the role does not match what is provided in the SMS configuration for the user pool.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

#### UserImportInProgressException

This exception is thrown when you are trying to modify a user pool while a user import job is in progress for that pool.

HTTP Status Code: 400
UserPoolTaggingException

This exception is thrown when a user pool tag cannot be set or updated.

HTTP Status Code: 400

# See Also

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

AWS Command Line Interface

- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# **UpdateUserPoolClient**

Updates the specified user pool app client with the specified attributes. If you don't provide a value for an attribute, it will be set to the default value. You can get a list of the current user pool app client settings with DescribeUserPoolClient (p. 162).

# Request Syntax

```
"AllowedOAuthFlows": [ "string" ],
   "AllowedOAuthFlowsUserPoolClient": boolean,
   "AllowedOAuthScopes": [ "string" ],
   "AnalyticsConfiguration": {
     "ApplicationId": "string",
      "ExternalId": "string",
     "RoleArn": "string",
     "UserDataShared": boolean
   },
   "CallbackURLs": [ "string" ],
   "ClientId": "string",
   "ClientName": "string",
   "DefaultRedirectURI": "string",
   "ExplicitAuthFlows": [ "string" ],
   "LogoutURLs": [ "string" ],
   "ReadAttributes": [ "string" ],
   "RefreshTokenValidity": number,
   "SupportedIdentityProviders": [ "string" ],
   "UserPoolId": "string",
   "WriteAttributes": [ "string" ]
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

#### AllowedOAuthFlows (p. 294)

Set to code to initiate a code grant flow, which provides an authorization code as the response. This code can be exchanged for access tokens with the token endpoint.

Set to token to specify that the client should get the access token (and, optionally, ID token, based on scopes) directly.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 3 items.

Valid Values: code | implicit | client\_credentials

Required: No

#### AllowedOAuthFlowsUserPoolClient (p. 294)

Set to TRUE if the client is allowed to follow the OAuth protocol when interacting with Cognito user pools.

Type: Boolean

### Amazon Cognito Identity Provider API Reference Request Parameters

#### Required: No

### AllowedOAuthScopes (p. 294)

A list of allowed OAuth scopes. Currently supported values are "phone", "email", "openid", and "Cognito".

Type: Array of strings

Array Members: Maximum number of 25 items.

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

Pattern:  $[\x21\x23-\x5B\x5D-\x7E]$ +

Required: No

### AnalyticsConfiguration (p. 294)

The Amazon Pinpoint analytics configuration for collecting metrics for this user pool.

Type: AnalyticsConfigurationType (p. 313) object

Required: No

# CallbackURLs (p. 294)

A list of allowed redirect (callback) URLs for the identity providers.

A redirect URI must:

- Be an absolute URI.
- Be registered with the authorization server.
- Not include a fragment component.

See OAuth 2.0 - Redirection Endpoint.

Amazon Cognito requires HTTPS over HTTP except for http://localhost for testing purposes only.

App callback URLs such as myapp://example are also supported.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: No

# ClientId (p. 294)

The ID of the client associated with the user pool.

Type: String

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

Pattern: [\w+]+

Required: Yes

ClientName (p. 294)

The client name from the update user pool client request.

### Amazon Cognito Identity Provider API Reference Request Parameters

Type: String

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

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

Required: No

### DefaultRedirectURI (p. 294)

The default redirect URI. Must be in the CallbackURLs list.

A redirect URI must:

- Be an absolute URI.
- Be registered with the authorization server.
- Not include a fragment component.

See OAuth 2.0 - Redirection Endpoint.

Amazon Cognito requires HTTPS over HTTP except for http://localhost for testing purposes only.

App callback URLs such as myapp://example are also supported.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: No

### ExplicitAuthFlows (p. 294)

Explicit authentication flows.

Type: Array of strings

Valid Values: ADMIN\_NO\_SRP\_AUTH | CUSTOM\_AUTH\_FLOW\_ONLY | USER\_PASSWORD\_AUTH

Required: No LogoutURLs (p. 294)

A list of allowed logout URLs for the identity providers.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: No

# ReadAttributes (p. 294)

The read-only attributes of the user pool.

Type: Array of strings

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

Required: No

### RefreshTokenValidity (p. 294)

The time limit, in days, after which the refresh token is no longer valid and cannot be used.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 3650.

Required: No

# SupportedIdentityProviders (p. 294)

A list of provider names for the identity providers that are supported on this client.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: No

#### UserPoolId (p. 294)

The user pool ID for the user pool where you want to update the user pool client.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-z]+$ 

Required: Yes

### WriteAttributes (p. 294)

The writeable attributes of the user pool.

Type: Array of strings

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

Required: No

# Response Syntax

```
"UserPoolClient": {
    "AllowedOAuthFlows": [ "string" ],
    "AllowedOAuthFlowsUserPoolClient": boolean,
    "AllowedOAuthScopes": [ "string" ],
    "AnalyticsConfiguration": {
        "ApplicationId": "string",
        "ExternalId": "string",
        "RoleArn": "string",
        "UserDataShared": boolean
    },
    "CallbackURLs": [ "string" ],
    "ClientId": "string",
    "ClientName": "string",
    "ClientSecret": "string",
    "CreationDate": number,
    "DefaultRedirectURI": "string",
```

### Amazon Cognito Identity Provider API Reference Response Elements

```
"ExplicitAuthFlows": [ "string" ],
   "LastModifiedDate": number,
   "LogoutURLs": [ "string" ],
   "ReadAttributes": [ "string" ],
   "RefreshTokenValidity": number,
   "SupportedIdentityProviders": [ "string" ],
   "UserPoolId": "string",
   "WriteAttributes": [ "string" ]
}
```

# **Response Elements**

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

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

# UserPoolClient (p. 297)

The user pool client value from the response from the server when an update user pool client request is made.

Type: UserPoolClientType (p. 376) object

# **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

## ConcurrentModificationException

This exception is thrown if two or more modifications are happening concurrently.

HTTP Status Code: 400

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

InvalidOAuthFlowException

This exception is thrown when the specified OAuth flow is invalid.

HTTP Status Code: 400 InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

# ${\bf Scope Does Not Exist Exception}$

This exception is thrown when the specified scope does not exist.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400

# See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# VerifySoftwareToken

Use this API to register a user's entered TOTP code and mark the user's software token MFA status as "verified" if successful. The request takes an access token or a session string, but not both.

# Request Syntax

```
{
   "AccessToken": "string",
   "FriendlyDeviceName": "string",
   "Session": "string",
   "UserCode": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
AccessToken (p. 300)
    The access token.
    Type: String
    Pattern: [A-Za-z0-9-_=.]+
    Required: No
FriendlyDeviceName (p. 300)
    The friendly device name.
    Type: String
    Required: No
Session (p. 300)
    The session which should be passed both ways in challenge-response calls to the service.
    Type: String
    Length Constraints: Minimum length of 20. Maximum length of 2048.
    Required: No
UserCode (p. 300)
    The one time password computed using the secret code returned by AssociateSoftwareToken (p. 84)
    Type: String
    Length Constraints: Fixed length of 6.
    Pattern: [0-9]+
    Required: Yes
```

# Response Syntax

```
{
   "Session": "string",
   "Status": "string"
}
```

# **Response Elements**

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

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

```
Session (p. 301)
```

The session which should be passed both ways in challenge-response calls to the service.

Type: String

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

### **Status (p. 301)**

The status of the verify software token.

Type: String

Valid Values: SUCCESS | ERROR

# **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

# CodeMismatchException

This exception is thrown if the provided code does not match what the server was expecting.

HTTP Status Code: 400

#### EnableSoftwareTokenMFAException

This exception is thrown when there is a code mismatch and the service fails to configure the software token TOTP multi-factor authentication (MFA).

HTTP Status Code: 400

### InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500

### InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400

### InvalidUserPoolConfigurationException

This exception is thrown when the user pool configuration is invalid.

# HTTP Status Code: 400 **NotAuthorizedException**

This exception is thrown when a user is not authorized.

HTTP Status Code: 400 **NotAuthorizedException** 

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

### PasswordResetRequiredException

This exception is thrown when a password reset is required.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

# SoftwareTokenMFANotFoundException

This exception is thrown when the software token TOTP multi-factor authentication (MFA) is not enabled for the user pool.

HTTP Status Code: 400
TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400
UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400 UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

# See Also

- AWS Command Line Interface
- · AWS SDK for .NET
- · AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- · AWS SDK for Python

•	AWS SDK for Ruby V2

# VerifyUserAttribute

Verifies the specified user attributes in the user pool.

# Request Syntax

```
{
   "AccessToken": "string",
   "AttributeName": "string",
   "Code": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 392).

The request accepts the following data in JSON format.

```
AccessToken (p. 304)
```

Represents the access token of the request to verify user attributes.

```
Type: String

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

Required: Yes
```

# AttributeName (p. 304)

The attribute name in the request to verify user attributes.

```
Type: String
```

Length Constraints: Minimum length of 1. Maximum length of 32.

```
Pattern: [\p{L}\p{M}\p{S}\p{N}\p{P}]+
```

Required: Yes Code (p. 304)

The verification code in the request to verify user attributes.

Type: String

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

Pattern: [\S]+
Required: Yes

# **Response Elements**

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

# **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 394).

# CodeMismatchException

This exception is thrown if the provided code does not match what the server was expecting.

HTTP Status Code: 400 ExpiredCodeException

This exception is thrown if a code has expired.

HTTP Status Code: 400

InternalErrorException

This exception is thrown when Amazon Cognito encounters an internal error.

HTTP Status Code: 500
InvalidParameterException

This exception is thrown when the Amazon Cognito service encounters an invalid parameter.

HTTP Status Code: 400 LimitExceededException

This exception is thrown when a user exceeds the limit for a requested AWS resource.

HTTP Status Code: 400
NotAuthorizedException

This exception is thrown when a user is not authorized.

HTTP Status Code: 400

PasswordResetRequiredException

This exception is thrown when a password reset is required.

HTTP Status Code: 400
ResourceNotFoundException

This exception is thrown when the Amazon Cognito service cannot find the requested resource.

HTTP Status Code: 400

TooManyRequestsException

This exception is thrown when the user has made too many requests for a given operation.

HTTP Status Code: 400
UserNotConfirmedException

This exception is thrown when a user is not confirmed successfully.

HTTP Status Code: 400
UserNotFoundException

This exception is thrown when a user is not found.

HTTP Status Code: 400

# See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

# **Data Types**

The Amazon Cognito Identity Provider API contains several data types that various actions use. This section describes each data type in detail.

#### Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

### The following data types are supported:

- AccountTakeoverActionsType (p. 309)
- AccountTakeoverActionType (p. 310)
- AccountTakeoverRiskConfigurationType (p. 311)
- AdminCreateUserConfigType (p. 312)
- AnalyticsConfigurationType (p. 313)
- AnalyticsMetadataType (p. 314)
- AttributeType (p. 315)
- AuthenticationResultType (p. 316)
- AuthEventType (p. 318)
- ChallengeResponseType (p. 320)
- CodeDeliveryDetailsType (p. 321)
- CompromisedCredentialsActionsType (p. 322)
- CompromisedCredentialsRiskConfigurationType (p. 323)
- ContextDataType (p. 324)
- CustomDomainConfigType (p. 325)
- DeviceConfigurationType (p. 326)
- DeviceSecretVerifierConfigType (p. 327)
- DeviceType (p. 328)
- DomainDescriptionType (p. 329)
- EmailConfigurationType (p. 331)
- EventContextDataType (p. 332)
- EventFeedbackType (p. 333)
- EventRiskType (p. 334)
- GroupType (p. 335)
- HttpHeader (p. 337)
- IdentityProviderType (p. 338)
- LambdaConfigType (p. 340)
- MessageTemplateType (p. 343)
- MFAOptionType (p. 344)
- NewDeviceMetadataType (p. 345)
- NotifyConfigurationType (p. 346)
- NotifyEmailType (p. 348)
- NumberAttributeConstraintsType (p. 349)
- PasswordPolicyType (p. 350)
- ProviderDescription (p. 352)

- ProviderUserIdentifierType (p. 353)
- ResourceServerScopeType (p. 354)
- ResourceServerType (p. 355)
- RiskConfigurationType (p. 357)
- RiskExceptionConfigurationType (p. 359)
- SchemaAttributeType (p. 360)
- SmsConfigurationType (p. 362)
- SmsMfaConfigType (p. 363)
- SMSMfaSettingsType (p. 364)
- SoftwareTokenMfaConfigType (p. 365)
- SoftwareTokenMfaSettingsType (p. 366)
- StringAttributeConstraintsType (p. 367)
- UICustomizationType (p. 368)
- UserContextDataType (p. 370)
- UserImportJobType (p. 371)
- UserPoolAddOnsType (p. 374)
- UserPoolClientDescription (p. 375)
- UserPoolClientType (p. 376)
- UserPoolDescriptionType (p. 380)
- UserPoolPolicyType (p. 382)
- UserPoolType (p. 383)
- UserType (p. 388)
- VerificationMessageTemplateType (p. 390)

# AccountTakeoverActionsType

Account takeover actions type.

## **Contents**

### **HighAction**

Action to take for a high risk.

Type: AccountTakeoverActionType (p. 310) object

Required: No

### LowAction

Action to take for a low risk.

Type: AccountTakeoverActionType (p. 310) object

Required: No **MediumAction** 

Action to take for a medium risk.

Type: AccountTakeoverActionType (p. 310) object

Required: No

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# AccountTakeoverActionType

Account takeover action type.

## **Contents**

#### **EventAction**

The event action.

- BLOCK Choosing this action will block the request.
- MFA\_IF\_CONFIGURED Throw MFA challenge if user has configured it, else allow the request.
- MFA\_REQUIRED Throw MFA challenge if user has configured it, else block the request.
- NO\_ACTION Allow the user sign-in.

```
Type: String

Valid Values: BLOCK | MFA_IF_CONFIGURED | MFA_REQUIRED | NO_ACTION

Required: Yes
```

#### Notify

Flag specifying whether to send a notification.

Type: Boolean Required: Yes

## See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# AccountTakeoverRiskConfigurationType

Configuration for mitigation actions and notification for different levels of risk detected for a potential account takeover.

## **Contents**

#### **Actions**

Account takeover risk configuration actions

Type: AccountTakeoverActionsType (p. 309) object

Required: Yes
NotifyConfiguration

The notify configuration used to construct email notifications.

Type: NotifyConfigurationType (p. 346) object

Required: No

# See Also

- · AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

# AdminCreateUserConfigType

The configuration for creating a new user profile.

## **Contents**

#### AllowAdminCreateUserOnly

Set to True if only the administrator is allowed to create user profiles. Set to False if users can sign themselves up via an app.

Type: Boolean

Required: No

### Invite Message Template

The message template to be used for the welcome message to new users.

See also Customizing User Invitation Messages.

Type: MessageTemplateType (p. 343) object

Required: No

#### **UnusedAccountValidityDays**

The user account expiration limit, in days, after which the account is no longer usable. To reset the account after that time limit, you must call AdminCreateUser again, specifying "RESEND" for the MessageAction parameter. The default value for this parameter is 7.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 365.

Required: No

## See Also

- · AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

# AnalyticsConfigurationType

The Amazon Pinpoint analytics configuration for collecting metrics for a user pool.

## **Contents**

### **ApplicationId**

The application ID for an Amazon Pinpoint application.

Type: String

Pattern: ^[0-9a-fA-F]+\$

Required: Yes

#### ExternalId

The external ID.

Type: String

Required: Yes

#### RoleArn

The ARN of an IAM role that authorizes Amazon Cognito to publish events to Amazon Pinpoint analytics.

Type: String

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

```
Pattern: arn: [\w+=/,.@-]+: [\w+=/,.@-]+: ([\w+=/,.@-]*)?: [0-9]+: [\w+=/,.@-]+(: [\w+=/,.@-]+)?
```

Required: Yes

#### UserDataShared

If UserDataShared is true, Amazon Cognito will include user data in the events it publishes to Amazon Pinpoint analytics.

Type: Boolean

Required: No

# See Also

- · AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- · AWS SDK for Ruby V2

# AnalyticsMetadataType

An Amazon Pinpoint analytics endpoint.

An endpoint uniquely identifies a mobile device, email address, or phone number that can receive messages from Amazon Pinpoint analytics.

## **Contents**

### AnalyticsEndpointId

The endpoint ID.

Type: String

Required: No

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# AttributeType

Specifies whether the attribute is standard or custom.

## **Contents**

#### Name

The name of the attribute.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: Yes

#### Value

The value of the attribute.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

# See Also

- · AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# AuthenticationResultType

The authentication result.

## **Contents**

```
AccessToken
   The access token.
   Type: String
    Pattern: [A-Za-z0-9-_=.]+
    Required: No
ExpiresIn
   The expiration period of the authentication result in seconds.
   Type: Integer
   Required: No
IdToken
   The ID token.
   Type: String
   Pattern: [A-Za-z0-9-_=.]+
    Required: No
NewDeviceMetadata
   The new device metadata from an authentication result.
   Type: NewDeviceMetadataType (p. 345) object
    Required: No
RefreshToken
   The refresh token.
   Type: String
   Pattern: [A-Za-z0-9-_=.]+
    Required: No
TokenType
   The token type.
   Type: String
```

# See Also

Required: No

## Amazon Cognito Identity Provider API Reference See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# AuthEventType

The authentication event type.

## **Contents**

### ChallengeResponses

The challenge responses.

Type: Array of ChallengeResponseType (p. 320) objects

Required: No

#### CreationDate

The creation date

Type: Timestamp

Required: No

#### **EventContextData**

The user context data captured at the time of an event request. It provides additional information about the client from which event the request is received.

Type: EventContextDataType (p. 332) object

Required: No

#### **EventFeedback**

A flag specifying the user feedback captured at the time of an event request is good or bad.

Type: EventFeedbackType (p. 333) object

Required: No

## EventId

The event ID.

Type: String

Required: No

#### **EventResponse**

The event response.

Type: String

Valid Values: Success | Failure

Required: No

## **EventRisk**

The event risk.

Type: EventRiskType (p. 334) object

Required: No

### Amazon Cognito Identity Provider API Reference See Also

## EventType

```
The event type.

Type: String

Valid Values: SignIn | SignUp | ForgotPassword

Required: No
```

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# ChallengeResponseType

The challenge response type.

## **Contents**

## ChallengeName

The challenge name

Type: String

Valid Values: Password | Mfa

Required: No ChallengeResponse

The challenge response.

Type: String

Valid Values: Success | Failure

Required: No

# See Also

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# CodeDeliveryDetailsType

The code delivery details being returned from the server.

## **Contents**

#### **AttributeName**

The attribute name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: No

## DeliveryMedium

The delivery medium (email message or phone number).

Type: String

Valid Values: SMS | EMAIL

Required: No

### Destination

The destination for the code delivery details.

Type: String

Required: No

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# Compromised Credentials Actions Type

The compromised credentials actions type

## **Contents**

#### **EventAction**

The event action.

Type: String

Valid Values: BLOCK | NO\_ACTION

Required: Yes

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# Compromised Credentials Risk Configuration Type

The compromised credentials risk configuration type.

## **Contents**

#### **Actions**

The compromised credentials risk configuration actions.

Type: CompromisedCredentialsActionsType (p. 322) object

Required: Yes

#### **EventFilter**

Perform the action for these events. The default is to perform all events if no event filter is specified.

Type: Array of strings

Valid Values: SIGN\_IN | PASSWORD\_CHANGE | SIGN\_UP

Required: No

## See Also

- · AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

# ContextDataType

Contextual user data type used for evaluating the risk of an unexpected event by Amazon Cognito advanced security.

## **Contents**

#### **EncodedData**

Encoded data containing device fingerprinting details, collected using the Amazon Cognito context data collection library.

Type: String Required: No

HttpHeaders

HttpHeaders received on your server in same order.

Type: Array of HttpHeader (p. 337) objects

Required: Yes

**IpAddress** 

Source IP address of your user.

Type: String Required: Yes

ServerName

Your server endpoint where this API is invoked.

Type: String Required: Yes

ServerPath

Your server path where this API is invoked.

Type: String Required: Yes

## See Also

- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

# CustomDomainConfigType

The configuration for a custom domain that hosts the sign-up and sign-in webpages for your application.

## **Contents**

#### CertificateArn

The Amazon Resource Name (ARN) of an AWS Certificate Manager SSL certificate. You use this certificate for the subdomain of your custom domain.

Type: String

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

```
Pattern: arn: [\w+=/, .@-]+: [\w+=/, .@-]+: [\w+=/, .@-]+: [\w+=/, .@-]+)?
```

Required: Yes

## See Also

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# ${\bf Device Configuration Type}$

The configuration for the user pool's device tracking.

## **Contents**

### ChallengeRequiredOnNewDevice

Indicates whether a challenge is required on a new device. Only applicable to a new device.

Type: Boolean

Required: No

## ${\bf Device Only Remembered On User Prompt}$

If true, a device is only remembered on user prompt.

Type: Boolean

Required: No

## See Also

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# DeviceSecretVerifierConfigType

The device verifier against which it will be authenticated.

## **Contents**

#### **PasswordVerifier**

The password verifier.

Type: String

Required: No

Salt

The salt.

Type: String

Required: No

## See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# DeviceType

The device type.

## **Contents**

#### **DeviceAttributes**

The device attributes.

Type: Array of AttributeType (p. 315) objects

Required: No **DeviceCreateDate** 

The creation date of the device.

Type: Timestamp

Required: No

DeviceKey

The device key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-f-]+$ 

Required: No

#### **DeviceLastAuthenticatedDate**

The date in which the device was last authenticated.

Type: Timestamp

Required: No

## DeviceLastModifiedDate

The last modified date of the device.

Type: Timestamp

Required: No

# See Also

- · AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

# DomainDescriptionType

A container for information about a domain.

## **Contents**

#### **AWSAccountId**

The AWS account ID for the user pool owner.

Type: String

Required: No

### CloudFrontDistribution

The ARN of the CloudFront distribution.

Type: String

Required: No

### CustomDomainConfig

The configuration for a custom domain that hosts the sign-up and sign-in webpages for your application.

Type: CustomDomainConfigType (p. 325) object

Required: No

#### Domain

The domain string.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern:  $^[a-z0-9](?:[a-z0-9])?$ \$

Required: No

#### S3Bucket

The S3 bucket where the static files for this domain are stored.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 1024.

Pattern: ^[0-9A-Za-z\.\-\_]\*(?<!\.)\$

Required: No

#### Status

The domain status.

Type: String

Valid Values: CREATING | DELETING | UPDATING | ACTIVE | FAILED

Required: No

### Amazon Cognito Identity Provider API Reference See Also

### UserPoolId

The user pool ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: No

### Version

The app version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Required: No

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# EmailConfigurationType

The email configuration type.

## **Contents**

## ReplyToEmailAddress

The destination to which the receiver of the email should reply to.

Type: String

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+@[\p{L}\p{M}\p{S}\p{P}]+$ 

Required: No

#### SourceArn

The Amazon Resource Name (ARN) of the email source.

Type: String

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

```
Pattern: arn: [\w+=/, .@-]+: [\w+=/, .@-]+: [\w+=/, .@-]*)?: [0-9]+: [\w+=/, .@-]+(: [\w+=/, .@-]+)?
```

Required: No

## See Also

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# EventContextDataType

Specifies the user context data captured at the time of an event request.

## **Contents**

## City

The user's city.

Type: String

Required: No

#### Country

The user's country.

Type: String

Required: No

#### DeviceName

The user's device name.

Type: String

Required: No

#### **IpAddress**

The user's IP address.

Type: String

Required: No

#### **Timezone**

The user's time zone.

Type: String

Required: No

# See Also

- AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

# EventFeedbackType

Specifies the event feedback type.

## **Contents**

#### **FeedbackDate**

The event feedback date.

Type: Timestamp

Required: No

#### **FeedbackValue**

The event feedback value.

Type: String

Valid Values: Valid | Invalid

Required: Yes

#### **Provider**

The provider.

Type: String

Required: Yes

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# EventRiskType

The event risk type.

## **Contents**

#### **RiskDecision**

```
The risk decision.

Type: String

Valid Values: NoRisk | AccountTakeover | Block

Required: No

RiskLevel

The risk level.

Type: String

Valid Values: Low | Medium | High

Required: No
```

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# GroupType

The group type.

## **Contents**

#### CreationDate

The date the group was created.

Type: Timestamp

Required: No

### Description

A string containing the description of the group.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

### GroupName

The name of the group.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: No LastModifiedDate

The date the group was last modified.

Type: Timestamp

Required: No

### **Precedence**

A nonnegative integer value that specifies the precedence of this group relative to the other groups that a user can belong to in the user pool. If a user belongs to two or more groups, it is the group with the highest precedence whose role ARN will be used in the cognito:roles and cognito:preferred\_role claims in the user's tokens. Groups with higher Precedence values take precedence over groups with lower Precedence values or with null Precedence values.

Two groups can have the same Precedence value. If this happens, neither group takes precedence over the other. If two groups with the same Precedence have the same role ARN, that role is used in the cognito:preferred\_role claim in tokens for users in each group. If the two groups have different role ARNs, the cognito:preferred\_role claim is not set in users' tokens.

The default Precedence value is null.

Type: Integer

Valid Range: Minimum value of 0.

#### Amazon Cognito Identity Provider API Reference See Also

Required: No

#### RoleArn

The role ARN for the group.

Type: String

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

Pattern: arn: 
$$[\w+=/, .@-]+: [\w+=/, .@-]+: [\w+=/, .@-]*)$$
?:  $[0-9]+: [\w+=/, .@-]+(: [\w+=/, .@-]+)$ ?

Required: No

### UserPoolId

The user pool ID for the user pool.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: No

## See Also

- AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

# HttpHeader

The HTTP header.

## **Contents**

#### headerName

The header name

Type: String

Required: No

### headerValue

The header value.

Type: String

Required: No

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# IdentityProviderType

A container for information about an identity provider.

## **Contents**

### AttributeMapping

A mapping of identity provider attributes to standard and custom user pool attributes.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 32.

Required: No

#### CreationDate

The date the identity provider was created.

Type: Timestamp

Required: No

### IdpIdentifiers

A list of identity provider identifiers.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 40.

Pattern:  $[\w\s+=.@-]+$ 

Required: No

#### LastModifiedDate

The date the identity provider was last modified.

Type: Timestamp

Required: No

## **ProviderDetails**

The identity provider details, such as MetadataURL and MetadataFile.

Type: String to string map

Required: No

#### **ProviderName**

The identity provider name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern:  $[\p\{L\}\p\{M\}\p\{S\}\p\{N\}\p\{P\}]+$ 

### Amazon Cognito Identity Provider API Reference See Also

```
Required: No

ProviderType

The identity provider type.

Type: String

Valid Values: SAML | Facebook | Google | LoginWithAmazon | OIDC

Required: No

UserPoolId

The user pool ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern: [\w-]+_[0-9a-zA-Z]+

Required: No
```

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# LambdaConfigType

Specifies the configuration for AWS Lambda triggers.

## **Contents**

#### CreateAuthChallenge

Creates an authentication challenge.

Type: String

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

```
Pattern: arn: [\w+=/,.@-]+: [\w+=/,.@-]+: ([\w+=/,.@-]*)?: [0-9]+: [\w+=/,.@-]+(: [\w+=/,.@-]+)?
```

Required: No

### CustomMessage

A custom Message AWS Lambda trigger.

Type: String

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

```
Pattern: arn: [\w+=/, .@-]+: [\w+=/, .@-]+: [\w+=/, .@-]*)?: [0-9]+: [\w+=/, .@-]+(: [\w+=/, .@-]+)?
```

Required: No

### DefineAuthChallenge

Defines the authentication challenge.

Type: String

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

```
Pattern: arn: [\w+=/,.@-]+:[\w+=/,.@-]+:([\w+=/,.@-]*)?:[0-9]+:[\w+=/,.@-]+(: [\w+=/,.@-]+)?(:[\w+=/,.@-]+)?
```

Required: No

#### **PostAuthentication**

A post-authentication AWS Lambda trigger.

Type: String

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

```
Pattern: arn: [\w+=/,.@-]+: [\w+=/,.@-]+: ([\w+=/,.@-]*)?: [0-9]+: [\w+=/,.@-]+(: [\w+=/,.@-]+)?
```

Required: No

#### **PostConfirmation**

A post-confirmation AWS Lambda trigger.

Type: String

#### Amazon Cognito Identity Provider API Reference Contents

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

```
Pattern: arn: [\w+=/, .@-]+: [\w+=/, .@-]+: [\w+=/, .@-]*)?: [0-9]+: [\w+=/, .@-]+(: [\w+=/, .@-]+)?
```

Required: No

### PreAuthentication

A pre-authentication AWS Lambda trigger.

Type: String

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

```
Pattern: arn: [\w+=/, .@-]+: [\w+=/, .@-]+: [\w+=/, .@-]+: [\w+=/, .@-]+)?
```

Required: No

#### PreSignUp

A pre-registration AWS Lambda trigger.

Type: String

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

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

Required: No

#### **PreTokenGeneration**

A Lambda trigger that is invoked before token generation.

Type: String

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

```
Pattern: arn: [\w+=/, .@-]+: [\w+=/, .@-]+: [\w+=/, .@-]+: [\w+=/, .@-]+)?
```

Required: No

### UserMigration

The user migration Lambda config type.

Type: String

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

```
Pattern: arn: [\w+=/, .@-]+: [\w+=/, .@-]+: [\w+=/, .@-]+: [\w+=/, .@-]+)?
```

Required: No

#### VerifyAuthChallengeResponse

Verifies the authentication challenge response.

Type: String

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

### Amazon Cognito Identity Provider API Reference See Also

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

Required: No

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# MessageTemplateType

The message template structure.

## **Contents**

#### **EmailMessage**

```
The message template for email messages.
```

Type: String

Length Constraints: Minimum length of 6. Maximum length of 20000.

Pattern:  $[\p\{L\}\p\{M\}\p\{S\}\p\{N\}\p\{P\}\s*]*\$   $[\p\{L\}\p\{M\}\p\{S\}\p\{N\}\p\{P\}\s*]*$ 

Required: No

## EmailSubject

The subject line for email messages.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 140.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}\s]+$ 

Required: No

### **SMSMessage**

The message template for SMS messages.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 140.

Pattern: .\*\{###\}.\*

Required: No

## See Also

- · AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

# MFAOptionType

Specifies the different settings for multi-factor authentication (MFA).

# **Contents**

#### **AttributeName**

The attribute name of the MFA option type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: No **DeliveryMedium** 

The delivery medium (email message or SMS message) to send the MFA code.

Type: String

Valid Values: SMS | EMAIL

Required: No

# See Also

- · AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# NewDeviceMetadataType

The new device metadata type.

# **Contents**

## DeviceGroupKey

```
The device group key.
```

Type: String

Required: No

## DeviceKey

The device key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-f-]+$ 

Required: No

# See Also

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# NotifyConfigurationType

The notify configuration type.

# **Contents**

### **BlockEmail**

Email template used when a detected risk event is blocked.

Type: NotifyEmailType (p. 348) object

Required: No

#### From

The email address that is sending the email. It must be either individually verified with Amazon SES, or from a domain that has been verified with Amazon SES.

Type: String

Required: No

### MfaEmail

The MFA email template used when MFA is challenged as part of a detected risk.

Type: NotifyEmailType (p. 348) object

Required: No

### **NoActionEmail**

The email template used when a detected risk event is allowed.

Type: NotifyEmailType (p. 348) object

Required: No

### ReplyTo

The destination to which the receiver of an email should reply to.

Type: String

Required: No

## SourceArn

The Amazon Resource Name (ARN) of the identity that is associated with the sending authorization policy. It permits Amazon Cognito to send for the email address specified in the From parameter.

Type: String

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

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

Required: Yes

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# NotifyEmailType

The notify email type.

# **Contents**

## HtmlBody

The HTML body.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 20000.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}\s*]+$ 

Required: No

## Subject

The subject.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 140.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}\s]+$ 

Required: Yes

## **TextBody**

The text body.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 20000.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}\s*]+$ 

Required: No

# See Also

- AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

# NumberAttributeConstraintsType

The minimum and maximum value of an attribute that is of the number data type.

# **Contents**

#### MaxValue

The maximum value of an attribute that is of the number data type.

Type: String

Required: No

## MinValue

The minimum value of an attribute that is of the number data type.

Type: String

Required: No

# See Also

- · AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# PasswordPolicyType

The password policy type.

# **Contents**

## MinimumLength

The minimum length of the password policy that you have set. Cannot be less than 6.

Type: Integer

Valid Range: Minimum value of 6. Maximum value of 99.

Required: No RequireLowercase

In the password policy that you have set, refers to whether you have required users to use at least one lowercase letter in their password.

Type: Boolean Required: No

## RequireNumbers

In the password policy that you have set, refers to whether you have required users to use at least one number in their password.

Type: Boolean Required: No

## RequireSymbols

In the password policy that you have set, refers to whether you have required users to use at least one symbol in their password.

Type: Boolean Required: No

## RequireUppercase

In the password policy that you have set, refers to whether you have required users to use at least one uppercase letter in their password.

Type: Boolean Required: No

# See Also

- AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java

## Amazon Cognito Identity Provider API Reference See Also

AWS SDK for Ruby V2	

# ProviderDescription

A container for identity provider details.

# **Contents**

#### CreationDate

The date the provider was added to the user pool.

Type: Timestamp

Required: No

### LastModifiedDate

The date the provider was last modified.

Type: Timestamp

Required: No

### **ProviderName**

The identity provider name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: No

## ProviderType

The identity provider type.

Type: String

Valid Values: SAML | Facebook | Google | LoginWithAmazon | OIDC

Required: No

# See Also

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# ProviderUserIdentifierType

A container for information about an identity provider for a user pool.

# **Contents**

#### **ProviderAttributeName**

The name of the provider attribute to link to, for example, NameID.

Type: String

Required: No

## **ProviderAttributeValue**

The value of the provider attribute to link to, for example, xxxxx\_account.

Type: String

Required: No

### **ProviderName**

The name of the provider, for example, Facebook, Google, or Login with Amazon.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: No

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# ResourceServerScopeType

A resource server scope.

# **Contents**

## **ScopeDescription**

A description of the scope.

Type: String

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

Required: Yes

## ScopeName

The name of the scope.

Type: String

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

Pattern:  $[\x21\x23-\x2E\x30-\x5B\x5D-\x7E]+$ 

Required: Yes

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# ResourceServerType

A container for information about a resource server for a user pool.

# **Contents**

#### **Identifier**

```
The identifier for the resource server.
```

Type: String

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

Pattern:  $[\x21\x23-\x5B\x5D-\x7E]$ +

Required: No

#### Name

The name of the resource server.

Type: String

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

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

Required: No

## **Scopes**

A list of scopes that are defined for the resource server.

Type: Array of ResourceServerScopeType (p. 354) objects

Array Members: Maximum number of 25 items.

Required: No

### UserPoolId

The user pool ID for the user pool that hosts the resource server.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: No

# See Also

- · AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java

## Amazon Cognito Identity Provider API Reference See Also

•	AWS SDK for Ruby V2

# RiskConfigurationType

The risk configuration type.

# **Contents**

## AccountTakeoverRiskConfiguration

The account takeover risk configuration object including the NotifyConfiguration object and Actions to take in the case of an account takeover.

Type: AccountTakeoverRiskConfigurationType (p. 311) object

Required: No

### ClientId

The app client ID.

Type: String

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

Pattern: [\w+]+

Required: No

## ${\bf Compromised Credentials Risk Configuration}$

The compromised credentials risk configuration object including the EventFilter and the EventAction

Type: CompromisedCredentialsRiskConfigurationType (p. 323) object

Required: No LastModifiedDate

The last modified date.

Type: Timestamp

Required: No

## RiskExceptionConfiguration

The configuration to override the risk decision.

Type: RiskExceptionConfigurationType (p. 359) object

Required: No

## UserPoolId

The user pool ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: No

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# RiskExceptionConfigurationType

The type of the configuration to override the risk decision.

# **Contents**

## BlockedIPRangeList

Overrides the risk decision to always block the pre-authentication requests. The IP range is in CIDR notation: a compact representation of an IP address and its associated routing prefix.

Type: Array of strings

Array Members: Maximum number of 20 items.

Required: No **SkippedIPRangeList** 

Risk detection is not performed on the IP addresses in the range list. The IP range is in CIDR notation.

Type: Array of strings

Array Members: Maximum number of 20 items.

Required: No

# See Also

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# SchemaAttributeType

Contains information about the schema attribute.

# **Contents**

## AttributeDataType

The attribute data type.

Type: String

Valid Values: String | Number | DateTime | Boolean

Required: No

### **DeveloperOnlyAttribute**

Specifies whether the attribute type is developer only.

Type: Boolean

Required: No

#### Mutable

Specifies whether the value of the attribute can be changed.

For any user pool attribute that's mapped to an identity provider attribute, you must set this parameter to true. Amazon Cognito updates mapped attributes when users sign in to your application through an identity provider. If an attribute is immutable, Amazon Cognito throws an error when it attempts to update the attribute. For more information, see Specifying Identity Provider Attribute Mappings for Your User Pool.

Type: Boolean

Required: No

#### Name

A schema attribute of the name type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: No

## **NumberAttributeConstraints**

Specifies the constraints for an attribute of the number type.

Type: NumberAttributeConstraintsType (p. 349) object

Required: No

### Required

Specifies whether a user pool attribute is required. If the attribute is required and the user does not provide a value, registration or sign-in will fail.

## Amazon Cognito Identity Provider API Reference See Also

Type: Boolean

Required: No

## StringAttributeConstraints

Specifies the constraints for an attribute of the string type.

Type: StringAttributeConstraintsType (p. 367) object

Required: No

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# SmsConfigurationType

The SMS configuration type.

# **Contents**

### **ExternalId**

The external ID.

Type: String

Required: No

## SnsCallerArn

The Amazon Resource Name (ARN) of the Amazon Simple Notification Service (SNS) caller.

Type: String

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

```
Pattern: arn: [\w+=/, .@-]+: [\w+=/, .@-]+: [\w+=/, .@-]*)?: [0-9]+: [\w+=/, .@-]+(: [\w+=/, .@-]+)?
```

Required: Yes

# See Also

- · AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# SmsMfaConfigType

The SMS text message multi-factor authentication (MFA) configuration type.

# **Contents**

## Sms Authentication Message

The SMS authentication message.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 140.

Pattern: . \* \ { #### \ } . \*

Required: No

# SmsConfiguration

The SMS configuration.

Type: SmsConfigurationType (p. 362) object

Required: No

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# SMSMfaSettingsType

The SMS multi-factor authentication (MFA) settings type.

# **Contents**

### **Enabled**

Specifies whether SMS text message MFA is enabled.

Type: Boolean

Required: No

## PreferredMfa

The preferred MFA method.

Type: Boolean

Required: No

# See Also

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# Software Token Mfa Config Type

The type used for enabling software token MFA at the user pool level.

# **Contents**

### **Enabled**

Specifies whether software token MFA is enabled.

Type: Boolean Required: No

# See Also

- AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

# Software Token Mfa Settings Type

The type used for enabling software token MFA at the user level.

# **Contents**

### **Enabled**

Specifies whether software token MFA is enabled.

Type: Boolean

Required: No

## PreferredMfa

The preferred MFA method.

Type: Boolean

Required: No

# See Also

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# String Attribute Constraints Type

The constraints associated with a string attribute.

# **Contents**

## MaxLength

The maximum length.

Type: String

Required: No

## MinLength

The minimum length.

Type: String

Required: No

# See Also

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# UlCustomizationType

A container for the UI customization information for a user pool's built-in app UI.

# **Contents**

### ClientId

```
The client ID for the client app.
   Type: String
   Length Constraints: Minimum length of 1. Maximum length of 128.
   Pattern: [\w+]+
    Required: No
CreationDate
   The creation date for the UI customization.
   Type: Timestamp
    Required: No
```

CSS

The CSS values in the UI customization.

Type: String Required: No

**CSSVersion** 

The CSS version number.

Type: String Required: No

ImageUrl

The logo image for the UI customization.

Type: String Required: No LastModifiedDate

The last-modified date for the UI customization.

Type: Timestamp Required: No

UserPoolId

The user pool ID for the user pool.

Type: String

## Amazon Cognito Identity Provider API Reference See Also

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: No

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# UserContextDataType

Contextual data such as the user's device fingerprint, IP address, or location used for evaluating the risk of an unexpected event by Amazon Cognito advanced security.

# **Contents**

#### **EncodedData**

Contextual data such as the user's device fingerprint, IP address, or location used for evaluating the risk of an unexpected event by Amazon Cognito advanced security.

Type: String Required: No

# See Also

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# UserImportJobType

The user import job type.

# **Contents**

## CloudWatchLogsRoleArn

The role ARN for the Amazon CloudWatch Logging role for the user import job. For more information, see "Creating the CloudWatch Logs IAM Role" in the Amazon Cognito Developer Guide.

Type: String

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

```
Pattern: arn: [\w+=/, .@-]+: [\w+=/, .@-]+: [\w+=/, .@-]*)?: [0-9]+: [\w+=/, .@-]+(: [\w+=/, .@-]+)?
```

Required: No

## CompletionDate

The date when the user import job was completed.

Type: Timestamp

Required: No

## CompletionMessage

The message returned when the user import job is completed.

Type: String

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

Pattern: [\w]+

Required: No

### CreationDate

The date the user import job was created.

Type: Timestamp

Required: No

## FailedUsers

The number of users that could not be imported.

Type: Long

Required: No

## **ImportedUsers**

The number of users that were successfully imported.

Type: Long

Required: No

### Amazon Cognito Identity Provider API Reference Contents

#### JobId

The job ID for the user import job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern: import-[0-9a-zA-Z-]+

Required: No

#### JobName

The job name for the user import job.

Type: String

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

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

Required: No

## PreSignedUrl

The pre-signed URL to be used to upload the .csv file.

Type: String

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

Required: No

## SkippedUsers

The number of users that were skipped.

Type: Long

Required: No

### StartDate

The date when the user import job was started.

Type: Timestamp

Required: No

### Status

The status of the user import job. One of the following:

- Created The job was created but not started.
- Pending A transition state. You have started the job, but it has not begun importing users yet.
- InProgress The job has started, and users are being imported.
- Stopping You have stopped the job, but the job has not stopped importing users yet.
- Stopped You have stopped the job, and the job has stopped importing users.
- Succeeded The job has completed successfully.
- Failed The job has stopped due to an error.
- Expired You created a job, but did not start the job within 24-48 hours. All data associated with the job was deleted, and the job cannot be started.

## Amazon Cognito Identity Provider API Reference See Also

Type: String

Valid Values: Created | Pending | InProgress | Stopping | Expired | Stopped |

Failed | Succeeded

Required: No

## UserPoolId

The user pool ID for the user pool that the users are being imported into.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: No

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# UserPoolAddOnsType

The user pool add-ons type.

# **Contents**

## AdvancedSecurityMode

The advanced security mode.

Type: String

Valid Values: OFF | AUDIT | ENFORCED

Required: Yes

# See Also

- AWS SDK for C++
- · AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# UserPoolClientDescription

The description of the user pool client.

# **Contents**

### ClientId

The ID of the client associated with the user pool.

Type: String

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

Pattern: [\w+]+

Required: No

### ClientName

The client name from the user pool client description.

Type: String

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

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

Required: No

### UserPoolId

The user pool ID for the user pool where you want to describe the user pool client.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: No

# See Also

- AWS SDK for C++
- AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

# UserPoolClientType

Contains information about a user pool client.

# **Contents**

### **AllowedOAuthFlows**

Set to code to initiate a code grant flow, which provides an authorization code as the response. This code can be exchanged for access tokens with the token endpoint.

Set to token to specify that the client should get the access token (and, optionally, ID token, based on scopes) directly.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 3 items.

Valid Values: code | implicit | client\_credentials

Required: No

### AllowedOAuthFlowsUserPoolClient

Set to TRUE if the client is allowed to follow the OAuth protocol when interacting with Cognito user pools.

Type: Boolean

Required: No

### AllowedOAuthScopes

A list of allowed OAuth scopes. Currently supported values are "phone", "email", "openid", and "Cognito".

Type: Array of strings

Array Members: Maximum number of 25 items.

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

Pattern:  $[\x21\x23-\x5B\x5D-\x7E]$ +

Required: No

## AnalyticsConfiguration

The Amazon Pinpoint analytics configuration for the user pool client.

Type: AnalyticsConfigurationType (p. 313) object

Required: No

## CallbackURLs

A list of allowed redirect (callback) URLs for the identity providers.

A redirect URI must:

- Be an absolute URI.
- · Be registered with the authorization server.

### Amazon Cognito Identity Provider API Reference Contents

• Not include a fragment component.

See OAuth 2.0 - Redirection Endpoint.

Amazon Cognito requires HTTPS over HTTP except for http://localhost for testing purposes only.

App callback URLs such as myapp://example are also supported.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: No

#### ClientId

The ID of the client associated with the user pool.

Type: String

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

Pattern: [\w+]+

Required: No

#### ClientName

The client name from the user pool request of the client type.

Type: String

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

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

Required: No

## ClientSecret

The client secret from the user pool request of the client type.

Type: String

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

Pattern: [\w+]+

Required: No

### CreationDate

The date the user pool client was created.

Type: Timestamp

Required: No

## DefaultRedirectURI

The default redirect URI. Must be in the CallbackURLs list.

### Amazon Cognito Identity Provider API Reference Contents

A redirect URI must:

- Be an absolute URI.
- Be registered with the authorization server.
- Not include a fragment component.

See OAuth 2.0 - Redirection Endpoint.

Amazon Cognito requires HTTPS over HTTP except for http://localhost for testing purposes only.

App callback URLs such as myapp://example are also supported.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: No

ExplicitAuthFlows

The explicit authentication flows.

Type: Array of strings

Valid Values: ADMIN\_NO\_SRP\_AUTH | CUSTOM\_AUTH\_FLOW\_ONLY | USER\_PASSWORD\_AUTH

Required: No LastModifiedDate

The date the user pool client was last modified.

Type: Timestamp

Required: No

LogoutURLs

A list of allowed logout URLs for the identity providers.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: No

ReadAttributes

The Read-only attributes.

Type: Array of strings

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

Required: No

RefreshTokenValidity

The time limit, in days, after which the refresh token is no longer valid and cannot be used.

### Amazon Cognito Identity Provider API Reference See Also

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 3650.

Required: No

## SupportedIdentityProviders

A list of provider names for the identity providers that are supported on this client.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]$ +

Required: No

### UserPoolId

The user pool ID for the user pool client.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: No

### WriteAttributes

The writeable attributes.

Type: Array of strings

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

Required: No

# See Also

- · AWS SDK for C++
- · AWS SDK for Go
- · AWS SDK for Java
- AWS SDK for Ruby V2

# UserPoolDescriptionType

A user pool description.

## **Contents**

### CreationDate

```
The date the user pool description was created.
```

Type: Timestamp

Required: No

Id

The ID in a user pool description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 55.

Pattern:  $[\w-]+_[0-9a-zA-Z]+$ 

Required: No

### LambdaConfig

The AWS Lambda configuration information in a user pool description.

Type: LambdaConfigType (p. 340) object

Required: No

### LastModifiedDate

The date the user pool description was last modified.

Type: Timestamp

Required: No

### Name

The name in a user pool description.

Type: String

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

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

Required: No

### Status

The user pool status in a user pool description.

Type: String

Valid Values: Enabled | Disabled

Required: No

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# UserPoolPolicyType

The policy associated with a user pool.

## **Contents**

### **PasswordPolicy**

The password policy.

Type: PasswordPolicyType (p. 350) object

Required: No

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# UserPoolType

A container for information about the user pool.

## **Contents**

### AdminCreateUserConfig

The configuration for AdminCreateUser requests.

Type: AdminCreateUserConfigType (p. 312) object

Required: No

### **AliasAttributes**

Specifies the attributes that are aliased in a user pool.

Type: Array of strings

Valid Values: phone\_number | email | preferred\_username

Required: No

#### Arn

The Amazon Resource Name (ARN) for the user pool.

Type: String

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

Pattern: arn:  $[\w+=/, .@-]+: [\w+=/, .@-]+: [\w+=/, .@-]+: [\w+=/, .@-]+)?$ 

Required: No

### AutoVerifiedAttributes

Specifies the attributes that are auto-verified in a user pool.

Type: Array of strings

Valid Values: phone\_number | email

Required: No

### CreationDate

The date the user pool was created.

Type: Timestamp

Required: No

### CustomDomain

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern:  $^[a-z0-9](?:[a-z0-9])?$ \$

# Required: No **DeviceConfiguration**

The device configuration.

Type: DeviceConfigurationType (p. 326) object

Required: No

### **Domain**

Holds the domain prefix if the user pool has a domain associated with it.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern:  $^[a-z0-9](?:[a-z0-9])?$ \$

Required: No EmailConfiguration

The email configuration.

Type: EmailConfigurationType (p. 331) object

Required: No

### EmailConfigurationFailure

The reason why the email configuration cannot send the messages to your users.

Type: String

Required: No

### EmailVerificationMessage

The contents of the email verification message.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 20000.

Pattern: [\p{L}\p{M}\p{S}\p{N}\p{P}\s\*]\*\{###\}
[\p{L}\p{M}\p{S}\p{N}\p{P}\s\*]\*

Required: No

### EmailVerificationSubject

The subject of the email verification message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 140.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}\s]+$ 

Required: No

### **EstimatedNumberOfUsers**

A number estimating the size of the user pool.

### Amazon Cognito Identity Provider API Reference Contents

```
Type: Integer
    Required: No
ld
    The ID of the user pool.
    Type: String
    Length Constraints: Minimum length of 1. Maximum length of 55.
    Pattern: [\w-]+_[0-9a-zA-Z]+
    Required: No
LambdaConfig
    The AWS Lambda triggers associated with the user pool.
    Type: LambdaConfigType (p. 340) object
    Required: No
LastModifiedDate
    The date the user pool was last modified.
    Type: Timestamp
    Required: No
MfaConfiguration
    Can be one of the following values:
    • OFF - MFA tokens are not required and cannot be specified during user registration.
    • ON - MFA tokens are required for all user registrations. You can only specify required when you are
      initially creating a user pool.
    • OPTIONAL - Users have the option when registering to create an MFA token.
    Type: String
    Valid Values: OFF | ON | OPTIONAL
    Required: No
Name
    The name of the user pool.
    Type: String
    Length Constraints: Minimum length of 1. Maximum length of 128.
    Pattern: [\w\s+=,.@-]+
    Required: No
Policies
    The policies associated with the user pool.
    Type: UserPoolPolicyType (p. 382) object
    Required: No
```

### **SchemaAttributes**

A container with the schema attributes of a user pool.

Type: Array of SchemaAttributeType (p. 360) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: No

### SmsAuthenticationMessage

The contents of the SMS authentication message.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 140.

Pattern: . \* \ { #### \ } . \*

Required: No

### **SmsConfiguration**

The SMS configuration.

Type: SmsConfigurationType (p. 362) object

Required: No

### **SmsConfigurationFailure**

The reason why the SMS configuration cannot send the messages to your users.

Type: String

Required: No

### SmsVerificationMessage

The contents of the SMS verification message.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 140.

Pattern: . \* \ { #### \ } . \*

Required: No

### Status

The status of a user pool.

Type: String

Valid Values: Enabled | Disabled

Required: No

### UsernameAttributes

Specifies whether email addresses or phone numbers can be specified as usernames when a user signs up.

Type: Array of strings

### Amazon Cognito Identity Provider API Reference See Also

Valid Values: phone\_number | email

Required: No UserPoolAddOns

The user pool add-ons.

Type: UserPoolAddOnsType (p. 374) object

Required: No UserPoolTags

The cost allocation tags for the user pool. For more information, see Adding Cost Allocation Tags to Your User Pool

Type: String to string map

Required: No

VerificationMessageTemplate

The template for verification messages.

Type: VerificationMessageTemplateType (p. 390) object

Required: No

# See Also

- · AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# UserType

The user type.

## **Contents**

#### Attributes

A container with information about the user type attributes.

Type: Array of AttributeType (p. 315) objects

Required: No

### Enabled

Specifies whether the user is enabled.

Type: Boolean

Required: No

### **MFAOptions**

The MFA options for the user.

Type: Array of MFAOptionType (p. 344) objects

Required: No

### **UserCreateDate**

The creation date of the user.

Type: Timestamp

Required: No

### **UserLastModifiedDate**

The last modified date of the user.

Type: Timestamp

Required: No

### Username

The user name of the user you wish to describe.

Type: String

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

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}]+$ 

Required: No

### UserStatus

The user status. Can be one of the following:

- UNCONFIRMED User has been created but not confirmed.
- CONFIRMED User has been confirmed.

### Amazon Cognito Identity Provider API Reference See Also

- ARCHIVED User is no longer active.
- COMPROMISED User is disabled due to a potential security threat.
- UNKNOWN User status is not known.

Type: String

Valid Values: UNCONFIRMED | CONFIRMED | ARCHIVED | COMPROMISED | UNKNOWN | RESET\_REQUIRED | FORCE\_CHANGE\_PASSWORD

Required: No

# See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# VerificationMessageTemplateType

The template for verification messages.

## **Contents**

### DefaultEmailOption

The default email option.

Type: String

Valid Values: CONFIRM\_WITH\_LINK | CONFIRM\_WITH\_CODE

Required: No

### **EmailMessage**

The email message template.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 20000.

Pattern: [\p{L}\p{M}\p{S}\p{N}\p{P}\s\*]\*\{###\}

\[ \n(\D)\n

 $[\p{L}\p{M}\p{S}\p{N}\p{P}\s*]*$ 

### Required: No EmailMessageByLink

The email message template for sending a confirmation link to the user.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 20000.

Pattern:  $[\p\{L\}\p\{M\}\p\{S\}\p\{N\}\p\{P\}\s*]*$  \\[\p\L\\p\M\\p\S\\p\N\\p\P\\s\*]\*

### EmailSubject

The subject line for the email message template.

Type: String

Required: No

Length Constraints: Minimum length of 1. Maximum length of 140.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}\s]+$ 

Required: No

### **EmailSubjectByLink**

The subject line for the email message template for sending a confirmation link to the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 140.

Pattern:  $[\p{L}\p{M}\p{S}\p{N}\p{P}\s]+$ 

### Amazon Cognito Identity Provider API Reference See Also

Required: No

### SmsMessage

The SMS message template.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 140.

Pattern: . \* \ { #### \ } . \*

Required: No

## See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2

# **Common Parameters**

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

#### Action

The action to be performed.

Type: string

Required: Yes

#### Version

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

Type: string

Required: Yes

### X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

### X-Amz-Credential

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

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

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

Type: string

Required: Conditional

### X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'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 (AWS STS). For a list of services that support temporary security credentials from AWS Security Token Service, go to AWS Services That Work with IAM in the IAM User Guide.

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

Type: string

Required: Conditional

### X-Amz-Signature

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

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

Type: string

Required: Conditional

### X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

# **Common Errors**

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

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

### InternalFailure

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

HTTP Status Code: 500

### InvalidAction

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

HTTP Status Code: 400

### InvalidClientTokenId

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

HTTP Status Code: 403

#### **InvalidParameterCombination**

Parameters that must not be used together were used together.

HTTP Status Code: 400

### **InvalidParameterValue**

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

HTTP Status Code: 400

### InvalidQueryParameter

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

HTTP Status Code: 400

### MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

### MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

### MissingAuthenticationToken

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

HTTP Status Code: 403

### MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

### OptInRequired

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

HTTP Status Code: 403

### RequestExpired

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

HTTP Status Code: 400

### ServiceUnavailable

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

HTTP Status Code: 503

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

### ValidationError

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

HTTP Status Code: 400