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Welcome to the Amazon SNS API Reference

Amazon SNS is a web service that enables you to build distributed web-enabled applications. Applications can use Amazon SNS to easily push real-time notification messages to interested subscribers over multiple delivery protocols. For more information about this product see the Amazon SNS product page. For detailed information about Amazon SNS features and their associated API calls, see the Amazon SNS Developer Guide.

For information on the permissions you need to use this API, see Identity and access management in Amazon SNS in the Amazon SNS Developer Guide.

We also provide SDKs that enable you to access Amazon SNS from your preferred programming language. The SDKs contain functionality that automatically takes care of tasks such as: cryptographically signing your service requests, retrying requests, and handling error responses. For a list of available SDKs, go to Tools for Amazon Web Services.
The following actions are supported:

- AddPermission (p. 4)
- CheckIfPhoneNumberIsOptedOut (p. 7)
- ConfirmSubscription (p. 9)
- CreatePlatformApplication (p. 12)
- CreatePlatformEndpoint (p. 15)
- CreateSMSSandboxPhoneNumber (p. 18)
- CreateTopic (p. 21)
- DeleteEndpoint (p. 25)
- DeletePlatformApplication (p. 27)
- DeleteSMSSandboxPhoneNumber (p. 29)
- DeleteTopic (p. 31)
- GetEndpointAttributes (p. 33)
- GetPlatformApplicationAttributes (p. 36)
- GetSMSAttributes (p. 39)
- GetSMSSandboxAccountStatus (p. 41)
- GetSubscriptionAttributes (p. 43)
- GetTopicAttributes (p. 46)
- ListEndpointsByPlatformApplication (p. 49)
- ListOriginationNumbers (p. 52)
- ListPhoneNumbersOptedOut (p. 55)
- ListPlatformApplications (p. 57)
- ListSMSSandboxPhoneNumbers (p. 60)
- ListSubscriptions (p. 63)
- ListSubscriptionsByTopic (p. 65)
- ListTagsForResource (p. 68)
- ListTopics (p. 70)
- OptInPhoneNumber (p. 72)
- Publish (p. 74)
- PublishBatch (p. 81)
- RemovePermission (p. 85)
- SetEndpointAttributes (p. 87)
- SetPlatformApplicationAttributes (p. 89)
- SetSMSAttributes (p. 92)
- SetSubscriptionAttributes (p. 95)
- SetTopicAttributes (p. 98)
- Subscribe (p. 101)
- TagResource (p. 106)
- Unsubscribe (p. 109)
- UntagResource (p. 111)
- VerifySMSSandboxPhoneNumber (p. 113)
AddPermission

Add a statement to a topic's access control policy, granting access for the specified AWS accounts to the specified actions.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

**ActionName.member.N**

The action you want to allow for the specified principal(s).

Valid values: Any Amazon SNS action name, for example Publish.

Type: Array of strings

Required: Yes

**AWSAccountId.member.N**

The AWS account IDs of the users (principals) who will be given access to the specified actions. The users must have AWS account, but do not need to be signed up for this service.

Type: Array of strings

Required: Yes

**Label**

A unique identifier for the new policy statement.

Type: String

Required: Yes

**TopicArn**

The ARN of the topic whose access control policy you wish to modify.

Type: String

Required: Yes

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

**AuthorizationError**

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

**InternalError**

Indicates an internal service error.

HTTP Status Code: 500
Examples

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

NotFound

Indicates that the requested resource does not exist.

HTTP Status Code: 404

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example

This example illustrates one usage of AddPermission.

Sample Request

```
https://sns.us-east-2.amazonaws.com/?Action=AddPermission
&TopicArn=arn%3Aaws%3Asns%3Aus-east-2%3A123456789012%3Aamy-Test
&Label=NewPermission
&ActionName.member.1=Publish
&ActionName.member.2=GetTopicAttributes
&SNSAccountId.member.1=987654321000
&SNSAccountId.member.2=876543210000
&Version=2010-03-31
&AUTHPARAMS
```

Sample Response

```
  <ResponseMetadata>
    <RequestId>6a213e4e-33a8-11df-9540-99d0768312d3</RequestId>
  </ResponseMetadata>
</AddPermissionResponse>
```

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

Accepts a phone number and indicates whether the phone holder has opted out of receiving SMS messages from your AWS account. You cannot send SMS messages to a number that is opted out.

To resume sending messages, you can opt in the number by using the OptInPhoneNumber action.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

phoneNumber

The phone number for which you want to check the opt out status.

Type: String

Required: Yes

Response Elements

The following element is returned by the service.

isOptedOut

Indicates whether the phone number is opted out:

- true – The phone number is opted out, meaning you cannot publish SMS messages to it.
- false – The phone number is opted in, meaning you can publish SMS messages to it.

Type: Boolean

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

Throttled

Indicates that the rate at which requests have been submitted for this action exceeds the limit for your Amazon Web Services account.
HTTP Status Code: 429

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

Verifies an endpoint owner's intent to receive messages by validating the token sent to the endpoint by an earlier Subscribe action. If the token is valid, the action creates a new subscription and returns its Amazon Resource Name (ARN). This call requires an AWS signature only when the AuthenticateOnUnsubscribe flag is set to "true".

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

AuthenticateOnUnsubscribe

Disallow unauthenticated unsubscribes of the subscription. If the value of this parameter is true and the request has an AWS signature, then only the topic owner and the subscription owner can unsubscribe the endpoint. The unsubscribe action requires AWS authentication.

Type: String
Required: No

Token

Short-lived token sent to an endpoint during the Subscribe action.

Type: String
Required: Yes

TopicArn

The ARN of the topic for which you wish to confirm a subscription.

Type: String
Required: Yes

Response Elements

The following element is returned by the service.

SubscriptionArn

The ARN of the created subscription.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403
FilterPolicyLimitExceeded

Indicates that the number of filter polices in your AWS account exceeds the limit. To add more filter polices, submit an Amazon SNS Limit Increase case in the AWS Support Center.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

NotFound

Indicates that the requested resource does not exist.

HTTP Status Code: 404

SubscriptionLimitExceeded

Indicates that the customer already owns the maximum allowed number of subscriptions.

HTTP Status Code: 403

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example

This example illustrates one usage of ConfirmSubscription.

Sample Request

https://sns.us-east-2.amazonaws.com/?Action=ConfirmSubscription
&TopicArn=arn%3aws%3sns%3us-east-2%3123456789012%3My-Topic
&Token=51b2ff3eddb475b7d91550e0ab6edf0c1de2a34e6ebaf6c2262a001bcb7e051c43aa00022ceecce70bd2a67b2042da8d8
&Version=2010-03-31
&AUTHPARAMS

Sample Response

<ConfirmSubscriptionResponse xmlns="https://sns.amazonaws.com/doc/2010-03-31/">  
  <ConfirmSubscriptionResult>  
    <SubscriptionArn>arn:aws:sns:us-east-2:123456789012:My-Topic:80289ba6-0fd4-4079-afb4-cc869d6f00ca</SubscriptionArn>  
  </ConfirmSubscriptionResult>  
  <ResponseMetadata>  
    <RequestId>7a50221f-3774-11df-a9b7-05d48da6f042</RequestId>  
  </ResponseMetadata>  
</ConfirmSubscriptionResponse>
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreatePlatformApplication

CreatePlatformApplication

Creates a platform application object for one of the supported push notification services, such as APNS and GCM (Firebase Cloud Messaging), to which devices and mobile apps may register. You must specify PlatformPrincipal and PlatformCredential attributes when using the CreatePlatformApplication action.

PlatformPrincipal and PlatformCredential are received from the notification service.

- For ADM, PlatformPrincipal is client id and PlatformCredential is client secret.
- For Baidu, PlatformPrincipal is API key and PlatformCredential is secret key.
- For APNS and APNS_SANDBOX using certificate credentials, PlatformPrincipal is SSL certificate and PlatformCredential is private key.
- For APNS and APNS_SANDBOX using token credentials, PlatformPrincipal is signing key ID and PlatformCredential is signing key.
- For GCM (Firebase Cloud Messaging), there is no PlatformPrincipal and the PlatformCredential is API key.
- For MPNS, PlatformPrincipal is TLS certificate and PlatformCredential is private key.
- For WNS, PlatformPrincipal is Package Security Identifier and PlatformCredential is secret key.

You can use the returned PlatformApplicationArn as an attribute for the CreatePlatformEndpoint action.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

Attributes, Attributes.entry.N.key (key), Attributes.entry.N.value (value)

For a list of attributes, see SetPlatformApplicationAttributes.

Type: String to string map

Required: Yes

Name

Application names must be made up of only uppercase and lowercase ASCII letters, numbers, underscores, hyphens, and periods, and must be between 1 and 256 characters long.

Type: String

Required: Yes

Platform

The following platforms are supported: ADM (Amazon Device Messaging), APNS (Apple Push Notification Service), APNS_SANDBOX, and GCM (Firebase Cloud Messaging).

Type: String

Required: Yes
Response Elements

The following element is returned by the service.

**PlatformApplicationArn**

PlatformApplicationArn is returned.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

**AuthorizationError**

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

**InternalError**

Indicates an internal service error.

HTTP Status Code: 500

**InvalidParameter**

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

Examples

The structure of `AUTHPARAMS` depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the *AWS General Reference*.

**Example**

This example illustrates one usage of CreatePlatformApplication.

**Sample Request**

```xml
https://sns.us-west-2.amazonaws.com/?Action=CreatePlatformApplication
&Name=gcmpushapp
&Platform=GCM
&Attributes.entry.1.key=PlatformCredential
&Attributes.entry.1.value=AIzaSyClE2lcV2zEKTLYYo645zfk2jhQPFeyxDo
&Attributes.entry.2.key=PlatformPrincipal
&Attributes.entry.2.value=There+is+no+principal+for+GCM
&Version=2010-03-31
&AUTHPARAMS
```

**Sample Response**

```xml
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreatePlatformEndpoint

Creates an endpoint for a device and mobile app on one of the supported push notification services, such as GCM (Firebase Cloud Messaging) and APNS. CreatePlatformEndpoint requires the PlatformApplicationArn that is returned from CreatePlatformApplication. You can use the returned EndpointArn to send a message to a mobile app or by the Subscribe action for subscription to a topic. The CreatePlatformEndpoint action is idempotent, so if the requester already owns an endpoint with the same device token and attributes, that endpoint's ARN is returned without creating a new endpoint. For more information, see Using Amazon SNS Mobile Push Notifications.

When using CreatePlatformEndpoint with Baidu, two attributes must be provided: ChannelId and UserId. The token field must also contain the ChannelId. For more information, see Creating an Amazon SNS Endpoint for Baidu.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

Attributes, Attributes.entry.N.key (key), Attributes.entry.N.value (value)

For a list of attributes, see SetEndpointAttributes.

Type: String to string map

Required: No

CustomUserData

Arbitrary user data to associate with the endpoint. Amazon SNS does not use this data. The data must be in UTF-8 format and less than 2KB.

Type: String

Required: No

PlatformApplicationArn

PlatformApplicationArn returned from CreatePlatformApplication is used to create an endpoint.

Type: String

Required: Yes

Token

Unique identifier created by the notification service for an app on a device. The specific name for Token will vary, depending on which notification service is being used. For example, when using APNS as the notification service, you need the device token. Alternatively, when using GCM (Firebase Cloud Messaging) or ADM, the device token equivalent is called the registration ID.

Type: String

Required: Yes

Response Elements

The following element is returned by the service.
Errors

EndpointArn

EndpointArn returned from CreateEndpoint action.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

NotFound

Indicates that the requested resource does not exist.

HTTP Status Code: 404

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example

This example illustrates one usage of CreatePlatformEndpoint.

Sample Request

&PlatformApplicationArn=arn%3Aaws%3Aamzn%3Asns%3Aus-west-2%3A123456789012%3Aapp%2FGCM%2Fgcmpushapp
&Token=APA91bGi7FfFachkC1xj1qT66VYEucGHochmf1VQAr9k...jsM0FKFpxRhddCzx6paEsyay9Zn3D4wNUJb86mH2zBEXAMPLE
&CustomUserData=UserId%3D27576823
&Version=2010-03-31
&AUTHPARAMS

Sample Response

<?xml version="1.0" encoding="UTF-8" encoding="utf-8"?>
  <CreatePlatformEndpointResult>
    <EndpointArn>arn:aws:sns:us-west-2:123456789012:endpoint/GCM/gcmpushapp/5e3e9847-3183-3f18-a7e8-671c3a57d4b3</EndpointArn>
  </CreatePlatformEndpointResult>
</CreatePlatformEndpointResponse>
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateSMSSandboxPhoneNumber

Add a destination phone number to an AWS account in the SMS sandbox and sends a one-time password (OTP) to that phone number.

When you start using Amazon SNS to send SMS messages, your AWS account is in the SMS sandbox. The SMS sandbox provides a safe environment for you to try Amazon SNS features without risking your reputation as an SMS sender. While your AWS account is in the SMS sandbox, you can use all of the features of Amazon SNS. However, you can send SMS messages only to verified destination phone numbers. For more information, including how to move out of the sandbox to send messages without restrictions, see SMS sandbox in the Amazon SNS Developer Guide.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

LanguageCode

The language to use for sending the OTP. The default value is en-US.

Type: String


Required: No

PhoneNumber

The destination phone number to verify. On verification, Amazon SNS adds this phone number to the list of verified phone numbers that you can send SMS messages to.

Type: String

Length Constraints: Maximum length of 20.

Pattern: ^\+[0-9]{8,}([0-9]{0,9})

Required: Yes

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.
HTTP Status Code: 400

**OptedOut**

Indicates that the specified phone number opted out of receiving SMS messages from your AWS account. You can’t send SMS messages to phone numbers that opt out.

HTTP Status Code: 400

**Throttled**

Indicates that the rate at which requests have been submitted for this action exceeds the limit for your Amazon Web Services account.

HTTP Status Code: 429

**UserError**

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

---

**Examples**

The structure of `AUTHPARAMS` depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the *AWS General Reference*.

**Example**

This example illustrates one usage of `CreateSMSSandboxPhoneNumber`.

**Sample Request**

```url
https://sns.us-west-2.amazonaws.com/?Action=CreateSMSSandboxPhoneNumber
&PhoneNumber=%2B21065550100
&LanguageCode=en-US
&Version=2010-03-31
&AUTHPARAMS
```

**Sample Response**

```xml
<CreateSMSSandboxPhoneNumberResponse xmlns="https://sns.amazonaws.com/doc/2010-03-31/">
  <CreateSMSSandboxPhoneNumberResult/>
  <ResponseMetadata>
    <RequestId>0d30fe4d-b737-5759-a82a-a6b75f920c0b</RequestId>
  </ResponseMetadata>
</CreateSMSSandboxPhoneNumberResponse>
```

**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
See Also

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

CreateTopic

Creates a topic to which notifications can be published. Users can create at most 100,000 standard topics (at most 1,000 FIFO topics). For more information, see Creating an Amazon SNS topic in the Amazon SNS Developer Guide. This action is idempotent, so if the requester already owns a topic with the specified name, that topic’s ARN is returned without creating a new topic.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

Attributes, Attributes.entry.N.key (key), Attributes.entry.N.value (value)

A map of attributes with their corresponding values.

The following lists the names, descriptions, and values of the special request parameters that the CreateTopic action uses:

- DeliveryPolicy – The policy that defines how Amazon SNS retries failed deliveries to HTTP/S endpoints.
- DisplayName – The display name to use for a topic with SMS subscriptions.
- FifoTopic – Set to true to create a FIFO topic.
- Policy – The policy that defines who can access your topic. By default, only the topic owner can publish or subscribe to the topic.

The following attribute applies only to server-side encryption:

- KmsMasterKeyId – The ID of an AWS managed customer master key (CMK) for Amazon SNS or a custom CMK. For more information, see Key Terms. For more examples, see KeyId in the AWS Key Management Service API Reference.

The following attributes apply only to FIFO topics:

- FifoTopic – When this is set to true, a FIFO topic is created.
- ContentBasedDeduplication – Enables content-based deduplication for FIFO topics.
  - By default, ContentBasedDeduplication is set to false. If you create a FIFO topic and this attribute is false, you must specify a value for the MessageDeduplicationId parameter for the Publish action.
  - When you set ContentBasedDeduplication to true, Amazon SNS uses a SHA-256 hash to generate the MessageDeduplicationId using the body of the message (but not the attributes of the message).

(Optional) To override the generated value, you can specify a value for the MessageDeduplicationId parameter for the Publish action.

Type: String to string map

Required: No

Name

The name of the topic you want to create.

Constraints: Topic names must be made up of only uppercase and lowercase ASCII letters, numbers, underscores, and hyphens, and must be between 1 and 256 characters long.

For a FIFO (first-in-first-out) topic, the name must end with the .fifo suffix.

Type: String
Response Elements

Required: Yes

**Tags.member.N**

The list of tags to add to a new topic.

**Note**

To be able to tag a topic on creation, you must have the `sns:CreateTopic` and `sns:TagResource` permissions.

Type: Array of [Tag](p. 131) objects

Required: No

Response Elements

The following element is returned by the service.

**TopicArn**

The Amazon Resource Name (ARN) assigned to the created topic.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](p. 135).

**AuthorizationError**

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

**ConcurrentAccess**

Can't perform multiple operations on a tag simultaneously. Perform the operations sequentially.

HTTP Status Code: 400

**InternalError**

Indicates an internal service error.

HTTP Status Code: 500

**InvalidParameter**

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

**InvalidSecurity**

The credential signature isn't valid. You must use an HTTPS endpoint and sign your request using Signature Version 4.

HTTP Status Code: 403

**StaleTag**

A tag has been added to a resource with the same ARN as a deleted resource. Wait a short while and then retry the operation.
HTTP Status Code: 400
**TagLimitExceeded**
Can't add more than 50 tags to a topic.

HTTP Status Code: 400
**TagPolicy**
The request doesn't comply with the IAM tag policy. Correct your request and then retry it.

HTTP Status Code: 400
**TopicLimitExceeded**
Indicates that the customer already owns the maximum allowed number of topics.

HTTP Status Code: 403

---

**Examples**

The structure of **AUTHPARAMS** depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the *AWS General Reference*.

**Example**

This example illustrates one usage of CreateTopic.

**Sample Request**

```plaintext
https://sns.us-east-2.amazonaws.com/?Action=CreateTopic
&Name=My-Topic
&Version=2010-03-31
&AUTHPARAMS
```

**Sample Response**

```xml
  <CreateTopicResult>
  </CreateTopicResult>
  <ResponseMetadata>
    <RequestId>a8dec8b3-33a4-11df-8963-01868b7c937a</RequestId>
  </ResponseMetadata>
</CreateTopicResponse>
```

**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 V2
- AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
DeleteEndpoint

Deletes the endpoint for a device and mobile app from Amazon SNS. This action is idempotent. For more information, see Using Amazon SNS Mobile Push Notifications.

When you delete an endpoint that is also subscribed to a topic, then you must also unsubscribe the endpoint from the topic.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

EndpointArn

EndpointArn of endpoint to delete.

Type: String

Required: Yes

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example

This example illustrates one usage of DeleteEndpoint.

Sample Request

https://sns.us-west-2.amazonaws.com/?Action=DeleteEndpoint
See Also

Sample Response

```xml
  <ResponseMetadata>
    <RequestId>c1d2b191-353c-5a5f-8969-fbdd3900afa8</RequestId>
  </ResponseMetadata>
</DeleteEndpointResponse>
```

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

Deletes a platform application object for one of the supported push notification services, such as APNS and GCM (Firebase Cloud Messaging). For more information, see Using Amazon SNS Mobile Push Notifications.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

PlatformApplicationArn

PlatformApplicationArn of platform application object to delete.

Type: String

Required: Yes

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example

This example illustrates one usage of DeletePlatformApplication.

Sample Request

https://sns.us-west-2.amazonaws.com/?Action=DeletePlatformApplication
&PlatformApplicationArn=arn%3Aaws%3Asts%3Aus-west-2%3A123456789012%3Aapp%2FGCM%2Fgcmpushapp
&Version=2010-03-31
Sample Response

```xml
  <ResponseMetadata>
    <RequestId>097dac18-7a77-5823-a8dd-e65476dc037</RequestId>
  </ResponseMetadata>
</DeletePlatformApplicationResponse>
```

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

Deletes an AWS account's verified or pending phone number from the SMS sandbox.

When you start using Amazon SNS to send SMS messages, your AWS account is in the SMS sandbox. The SMS sandbox provides a safe environment for you to try Amazon SNS features without risking your reputation as an SMS sender. While your AWS account is in the SMS sandbox, you can use all of the features of Amazon SNS. However, you can send SMS messages only to verified destination phone numbers. For more information, including how to move out of the sandbox to send messages without restrictions, see SMS sandbox in the Amazon SNS Developer Guide.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

PhoneNumber

- The destination phone number to delete.
- Type: String
- Pattern: ^\+(0-9)(8,)(0-9){0,9}$
- Required: Yes

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

- Indicates that the user has been denied access to the requested resource.
- HTTP Status Code: 403

InternalError

- Indicates an internal service error.
- HTTP Status Code: 500

InvalidParameter

- Indicates that a request parameter does not comply with the associated constraints.
- HTTP Status Code: 400

ResourceNotFound

- Can't perform the action on the specified resource. Make sure that the resource exists.
- HTTP Status Code: 404

Throttled

- Indicates that the rate at which requests have been submitted for this action exceeds the limit for your Amazon Web Services account.
HTTP Status Code: 429

**UserError**

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

### Examples

The structure of `AUTHPARAMS` depends on the signature of the API request. For more information, see [Examples of the complete Signature Version 4 signing process (Python)](https://aws.amazon.com/documentation/general-reference) in the *AWS General Reference*.

#### Example

This example illustrates one usage of `DeleteSMSSandboxPhoneNumber`.

**Sample Request**

```plaintext
https://sns.us-west-2.amazonaws.com/?Action=DeleteSMSSandboxPhoneNumber
&PhoneNumber=%2B12065550100
&Version=2010-03-31
&AUTHPARAMS
```

**Sample Response**

```xml
<DeleteSMSSandboxPhoneNumberResponse xmlns="https://sns.amazonaws.com/doc/2010-03-31/"
  <DeleteSMSSandboxPhoneNumberResult>
  </DeleteSMSSandboxPhoneNumberResult>
  <ResponseMetadata>
    <RequestId>a22418de-4557-52c1-abf8-4024bb19a34a</RequestId>
  </ResponseMetadata>
</DeleteSMSSandboxPhoneNumberResponse>
```

#### 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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteTopic

Deletes a topic and all its subscriptions. Deleting a topic might prevent some messages previously sent to the topic from being delivered to subscribers. This action is idempotent, so deleting a topic that does not exist does not result in an error.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

**TopicArn**

The ARN of the topic you want to delete.

Type: String

Required: Yes

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

**AuthorizationError**

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

**ConcurrentAccess**

Can't perform multiple operations on a tag simultaneously. Perform the operations sequentially.

HTTP Status Code: 400

**InternalError**

Indicates an internal service error.

HTTP Status Code: 500

**InvalidParameter**

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

**NotFound**

Indicates that the requested resource does not exist.

HTTP Status Code: 404

**StaleTag**

A tag has been added to a resource with the same ARN as a deleted resource. Wait a short while and then retry the operation.

HTTP Status Code: 400

**TagPolicy**

The request doesn't comply with the IAM tag policy. Correct your request and then retry it.
HTTP Status Code: 400

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example

This example illustrates one usage of DeleteTopic.

Sample Request

```
https://sns.us-east-2.amazonaws.com/?Action=DeleteTopic
&TopicArn=arn%3Aaws%3Asns%3Aus-east-2%3A123456789012%3AMy-Topic
&Version=2010-03-31
&AUTHPARAMS
```

Sample Response

```
  <ResponseMetadata>
    <RequestId>f3aa9ac9-3c3d-11df-8235-9dab105e9c32</RequestId>
  </ResponseMetadata>
</DeleteTopicResponse>
```

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

Retrieves the endpoint attributes for a device on one of the supported push notification services, such as GCM (Firebase Cloud Messaging) and APNS. For more information, see Using Amazon SNS Mobile Push Notifications.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

EndpointArn

EndpointArn for GetEndpointAttributes input.

Type: String

Required: Yes

Response Elements

The following element is returned by the service.

Attributes, Attributes.entry.N.key (key), Attributes.entry.N.value (value)

Attributes include the following:

- CustomUserData – arbitrary user data to associate with the endpoint. Amazon SNS does not use this data. The data must be in UTF-8 format and less than 2KB.
- Enabled – flag that enables/disables delivery to the endpoint. Amazon SNS will set this to false when a notification service indicates to Amazon SNS that the endpoint is invalid. Users can set it back to true, typically after updating Token.
- Token – device token, also referred to as a registration id, for an app and mobile device. This is returned from the notification service when an app and mobile device are registered with the notification service.

Note

The device token for the iOS platform is returned in lowercase.

Type: String to string map

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500
Examples

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

NotFound

Indicates that the requested resource does not exist.

HTTP Status Code: 404

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example

This example illustrates one usage of GetEndpointAttributes.

Sample Request

https://sns.us-west-2.amazonaws.com/?Action=GetEndpointAttributes
&EndpointArn=arn%3Aaws%3Asns%3Aus-west-2%3A123456789012%3Aendpoint%2FGCM%2Fgcmpushapp%2F5e3e9847-3183-3f18-a7e8-671c3a57d4b3
&Version=2010-03-31
&AUTHPARAMS

Sample Response

<GetEndpointAttributesResponse xmlns="https://sns.amazonaws.com/doc/2010-03-31/">
  <GetEndpointAttributesResult>
    <Attributes>
      <entry>
        <key>Enabled</key>
        <value>true</value>
      </entry>
      <entry>
        <key>CustomUserData</key>
        <value>UserId=01234567</value>
      </entry>
      <entry>
        <key>Token</key>
        <value>APA91bGi7fFachkC1xj1qT66VYEucGHochmf1VQA9k...jsM0PKPxKhddCzx6paEsyay9Zn3D4wNUJb8m6HZrBEXAMPLE</value>
      </entry>
    </Attributes>
  </GetEndpointAttributesResult>
  <ResponseMetadata>
    <RequestId>6c725a19-a142-5b77-94f9-1055a9ea04e7</RequestId>
  </ResponseMetadata>
</GetEndpointAttributesResponse>

See Also

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

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

Retrieves the attributes of the platform application object for the supported push notification services, such as APNS and GCM (Firebase Cloud Messaging). For more information, see Using Amazon SNS Mobile Push Notifications.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

**PlatformApplicationArn**

PlatformApplicationArn for GetPlatformApplicationAttributesInput.

Type: String

Required: Yes

Response Elements

The following element is returned by the service.

**Attributes**, Attributes.entry.N.key (key), Attributes.entry.N.value (value)

Attributes include the following:

- **AppleCertificateExpiryDate** – The expiry date of the SSL certificate used to configure certificate-based authentication.
- **ApplePlatformTeamID** – The Apple developer account ID used to configure token-based authentication.
- **ApplePlatformBundleID** – The app identifier used to configure token-based authentication.
- **EventEndpointCreated** – Topic ARN to which EndpointCreated event notifications should be sent.
- **EventEndpointDeleted** – Topic ARN to which EndpointDeleted event notifications should be sent.
- **EventEndpointUpdated** – Topic ARN to which EndpointUpdate event notifications should be sent.
- **EventDeliveryFailure** – Topic ARN to which DeliveryFailure event notifications should be sent upon Direct Publish delivery failure (permanent) to one of the application's endpoints.

Type: String to string map

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

**AuthorizationError**

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403
InternalError
Indicates an internal service error.
HTTP Status Code: 500

InvalidParameter
Indicates that a request parameter does not comply with the associated constraints.
HTTP Status Code: 400

NotFound
Indicates that the requested resource does not exist.
HTTP Status Code: 404

Examples
The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example
This example illustrates one usage of GetPlatformApplicationAttributes.

Sample Request
&PlatformApplicationArn=arn%3Aaws%3Aamzn%3Aus-west-2%3A123456789012%3Aapp%2FGCM%2Fgcmpushapp
&Version=2010-03-31
&AUTHPARAMS

Sample Response
   <GetPlatformApplicationAttributesResult>
     <Attributes>
       <entry>
         <key>AllowEndpointPolicies</key>
         <value>false</value>
       </entry>
     </Attributes>
   </GetPlatformApplicationAttributesResult>
   <ResponseMetadata>
     <RequestId>74848df2-87f6-55ed-890c-c7be80442462</RequestId>
   </ResponseMetadata>
</GetPlatformApplicationAttributesResponse>

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 V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
GetSMSAttributes

Returns the settings for sending SMS messages from your AWS account.

These settings are set with the GetSMSAttributes action.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

attributes.member.N

A list of the individual attribute names, such as MonthlySpendLimit, for which you want values.

For all attribute names, see SetSMSAttributes.

If you don't use this parameter, Amazon SNS returns all SMS attributes.

Type: Array of strings

Required: No

Response Elements

The following element is returned by the service.

attributes, attributes.entry.N.key (key), attributes.entry.N.value (value)

The SMS attribute names and their values.

Type: String to string map

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

Throttled

Indicates that the rate at which requests have been submitted for this action exceeds the limit for your Amazon Web Services account.
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetSMSSandboxAccountStatus

Retrieves the SMS sandbox status for the calling AWS account in the target AWS Region.

When you start using Amazon SNS to send SMS messages, your AWS account is in the SMS sandbox. The SMS sandbox provides a safe environment for you to try Amazon SNS features without risking your reputation as an SMS sender. While your AWS account is in the SMS sandbox, you can use all of the features of Amazon SNS. However, you can send SMS messages only to verified destination phone numbers. For more information, including how to move out of the sandbox to send messages without restrictions, see SMS sandbox in the Amazon SNS Developer Guide.

Response Elements

The following element is returned by the service.

**IsInSandbox**

Indicates whether the calling AWS account is in the SMS sandbox.

Type: Boolean

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

**AuthorizationError**

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

**InternalError**

Indicates an internal service error.

HTTP Status Code: 500

**Throttled**

Indicates that the rate at which requests have been submitted for this action exceeds the limit for your Amazon Web Services account.

HTTP Status Code: 429

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

**Example**

This example illustrates one usage of GetSMSSandboxAccountStatus.

**Sample Request**

Sample Response

```xml
  <GetSMSSandboxAccountStatusResult>
    <IsInSandbox>true</IsInSandbox>
  </GetSMSSandboxAccountStatusResult>
  <ResponseMetadata>
    <RequestId>197f9501-7eca-5151-8d68-cdfb83a62aeb</RequestId>
  </ResponseMetadata>
</GetSMSSandboxAccountStatusResponse>
```

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

Returns all of the properties of a subscription.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

SubscriptionArn

The ARN of the subscription whose properties you want to get.

Type: String
Required: Yes

Response Elements

The following element is returned by the service.

Attributes, Attributes.entry.N.key (key), Attributes.entry.N.value (value)

A map of the subscription's attributes. Attributes in this map include the following:
- ConfirmationWasAuthenticated – true if the subscription confirmation request was authenticated.
- DeliveryPolicy – The JSON serialization of the subscription's delivery policy.
- EffectiveDeliveryPolicy – The JSON serialization of the effective delivery policy that takes into account the topic delivery policy and account system defaults.
- FilterPolicy – The filter policy JSON that is assigned to the subscription. For more information, see Amazon SNS Message Filtering in the Amazon SNS Developer Guide.
- Owner – The AWS account ID of the subscription's owner.
- PendingConfirmation – true if the subscription hasn't been confirmed. To confirm a pending subscription, call the ConfirmSubscription action with a confirmation token.
- RawMessageDelivery – true if raw message delivery is enabled for the subscription. Raw messages are free of JSON formatting and can be sent to HTTP/S and Amazon SQS endpoints.
- RedrivePolicy – When specified, sends undeliverable messages to the specified Amazon SQS dead-letter queue. Messages that can't be delivered due to client errors (for example, when the subscribed endpoint is unreachable) or server errors (for example, when the service that powers the subscribed endpoint becomes unavailable) are held in the dead-letter queue for further analysis or reprocessing.
- SubscriptionArn – The subscription's ARN.
- TopicArn – The topic ARN that the subscription is associated with.

The following attribute applies only to Amazon Kinesis Data Firehose delivery stream subscriptions:

SubscriptionRoleArn – The ARN of the IAM role that has the following:
- Permission to write to the Kinesis Data Firehose delivery stream
- Amazon SNS listed as a trusted entity

Specifying a valid ARN for this attribute is required for Kinesis Data Firehose delivery stream subscriptions. For more information, see Fanout to Kinesis Data Firehose delivery streams in the Amazon SNS Developer Guide.
Type: String to string map

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

NotFound

Indicates that the requested resource does not exist.

HTTP Status Code: 404

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example

This example illustrates one usage of GetSubscriptionAttributes.

Sample Request

https://sns.us-east-2.amazonaws.com/?Action=GetSubscriptionAttributes
&SubscriptionArn=arn%3Aaws%3Asns%3Aus-east-2%3A123456789012%3AMy-Topic
&Version=2010-03-31
&AUTHPARAMS

Sample Response

<GetSubscriptionAttributesResponse xmlns="https://sns.amazonaws.com/doc/2010-03-31/">
  <GetSubscriptionAttributesResult>
    <Attributes>
      <entry>
        <key>Owner</key>
        <value>123456789012</value>
      </entry>
      <entry>
        <key>DeliveryPolicy</key>
        <value>44</value>
      </entry>
    </Attributes>
  </GetSubscriptionAttributesResult>
</GetSubscriptionAttributesResponse>
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetTopicAttributes

GetTopicAttributes

Returns all of the properties of a topic. Topic properties returned might differ based on the authorization of the user.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

TopicArn

The ARN of the topic whose properties you want to get.

Type: String

Required: Yes

Response Elements

The following element is returned by the service.

Attributes , Attributes.entry.N.key (key), Attributes.entry.N.value (value)

A map of the topic's attributes. Attributes in this map include the following:

- DeliveryPolicy – The JSON serialization of the topic's delivery policy.
- DisplayName – The human-readable name used in the From field for notifications to email and email-json endpoints.
- Owner – The AWS account ID of the topic's owner.
- Policy – The JSON serialization of the topic's access control policy.
- SubscriptionsConfirmed – The number of confirmed subscriptions for the topic.
- SubscriptionsDeleted – The number of deleted subscriptions for the topic.
- SubscriptionsPending – The number of subscriptions pending confirmation for the topic.
- TopicArn – The topic's ARN.
- EffectiveDeliveryPolicy – The JSON serialization of the effective delivery policy, taking system defaults into account.

The following attribute applies only to server-side-encryption:

- KmsMasterKeyId - The ID of an AWS managed customer master key (CMK) for Amazon SNS or a custom CMK. For more information, see Key Terms. For more examples, see KeyId in the AWS Key Management Service API Reference.

The following attributes apply only to FIFO topics:

- FifoTopic – When this is set to true, a FIFO topic is created.
- ContentBasedDeduplication – Enables content-based deduplication for FIFO topics.
  - By default, ContentBasedDeduplication is set to false. If you create a FIFO topic and this attribute is false, you must specify a value for the MessageDeduplicationId parameter for the Publish action.
  - When you set ContentBasedDeduplication to true, Amazon SNS uses a SHA-256 hash to generate the MessageDeduplicationId using the body of the message (but not the attributes of the message).
Errors

(Optional) To override the generated value, you can specify a value for the MessageDeduplicationId parameter for the Publish action.

Type: String to string map

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

InvalidSecurity

The credential signature isn't valid. You must use an HTTPS endpoint and sign your request using Signature Version 4.

HTTP Status Code: 403

NotFound

Indicates that the requested resource does not exist.

HTTP Status Code: 404

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example

This example illustrates one usage of GetTopicAttributes.

Sample Request

```
```

Sample Response

```
<GetTopicAttributesResponse xmlns="https://sns.amazonaws.com/doc/2010-03-31/">
```

47
<GetTopicAttributesResult>
  <Attributes>
    <entry>
      <key>Owner</key>
      <value>123456789012</value>
    </entry>
    <entry>
      <key>Policy</key>
      <value>{
        "Version": "2008-10-17",
        "Id": "us-east-2/698519295917/test_default_policy_ID",
        "Statement": [
          {
            "Effect": "Allow",
            "Sid": "us-east-2/698519295917/test_default_statement_ID",
            "Principal": "*",
            "Action": [
              "SNS:GetTopicAttributes",
              "SNS:SetTopicAttributes",
              "SNS:AddPermission",
              "SNS:RemovePermission",
              "SNS:DeleteTopic",
              "SNS:Subscribe",
              "SNS:ListSubscriptionsByTopic",
              "SNS:Publish"
            ],
            "Condition": {
              "StringLike": {
                "AWS:SourceArn": "arn:aws:*:*:698519295917:*"
              }
            }
          }
        ]
      }
    </entry>
    <entry>
      <key>TopicArn</key>
      <value>arn:aws:sns:us-east-2:123456789012:My-Topic</value>
    </entry>
  </Attributes>
</GetTopicAttributesResult>

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

Lists the endpoints and endpoint attributes for devices in a supported push notification service, such as GCM (Firebase Cloud Messaging) and APNS. The results for ListEndpointsByPlatformApplication are paginated and return a limited list of endpoints, up to 100. If additional records are available after the first page results, then a NextToken string will be returned. To receive the next page, you call ListEndpointsByPlatformApplication again using the NextToken string received from the previous call. When there are no more records to return, NextToken will be null. For more information, see Using Amazon SNS Mobile Push Notifications.

This action is throttled at 30 transactions per second (TPS).

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

NextToken

NextToken string is used when calling ListEndpointsByPlatformApplication action to retrieve additional records that are available after the first page results.

Type: String
Required: No

PlatformApplicationArn

PlatformApplicationArn for ListEndpointsByPlatformApplicationInput action.

Type: String
Required: Yes

Response Elements

The following elements are returned by the service.

Endpoints.member.N

Endpoints returned for ListEndpointsByPlatformApplication action.

Type: Array of Endpoint (p. 120) objects

NextToken

NextToken string is returned when calling ListEndpointsByPlatformApplication action if additional records are available after the first page results.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.
Examples

HTTP Status Code: 403

**InternalError**

 Indicates an internal service error.

HTTP Status Code: 500

**InvalidParameter**

 Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

**NotFound**

 Indicates that the requested resource does not exist.

HTTP Status Code: 404

Examples

The structure of *AUTHPARAMS* depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the *AWS General Reference*.

Example

This example illustrates one usage of ListEndpointsByPlatformApplication.

Sample Request

```plaintext
&PlatformApplicationArn=arn%3Aaws%3Asns%3Aus-west-2%3A123456789012%3Aapp%2FGCM%2Fgcmpushapp
&Version=2010-03-31
&AUTHPARAMS
```

Sample Response

```xml
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  <ListEndpointsByPlatformApplicationResult>
    <Endpoints>
      <member>
        <EndpointArn>arn:aws:sns:us-west-2:123456789012:endpoint/GCM/gcmpushapp/5e3e9847-3183-3f18-a7e8-671c3a57d4b3</EndpointArn>
        <Attributes>
          <entry>
            <key>Enabled</key>
            <value>true</value>
          </entry>
          <entry>
            <key>CustomUserData</key>
            <value>UserId=27576823</value>
          </entry>
          <entry>
            <key>Token</key>
            <value>APA91bG17ffFachkC1xj1qT66VYEucGHochmf1VQAr9k...jsM0PKFxhddCzx6paEsyay9Zn3D4wNUJb8m6HZrBEXAMPLE</value>
          </entry>
        </Attributes>
      </member>
    </Endpoints>
  </ListEndpointsByPlatformApplicationResult>
</ListEndpointsByPlatformApplicationResponse>
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListOriginationNumbers

Lists the calling AWS account's dedicated origination numbers and their metadata. For more information about origination numbers, see Origination numbers in the Amazon SNS Developer Guide.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

MaxResults

The maximum number of origination numbers to return.

Type: Integer


Required: No

NextToken

Token that the previous ListOriginationNumbers request returns.

Type: String

Required: No

Response Elements

The following elements are returned by the service.

NextToken

A NextToken string is returned when you call the ListOriginationNumbers operation if additional pages of records are available.

Type: String

PhoneNumbers.member.N

A list of the calling account's verified and pending origination numbers.

Type: Array of PhoneNumberInformation (p. 122) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.
Examples

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

Throttled

Indicates that the rate at which requests have been submitted for this action exceeds the limit for your Amazon Web Services account.

HTTP Status Code: 429

Validation

Indicates that a parameter in the request is invalid.

HTTP Status Code: 400

Examples

Example

This example illustrates one usage of ListOriginationNumbers.

Sample Request

https://sns.us-west-2.amazonaws.com/?Action=ListOriginationNumbers
&NextToken=AAMAATKBfxv6_MR2sl2KtICucU2ksVr9xAtdrIFgk6ODYBC7S9uDbQFIlkR6ZUugDSulzDrrnUbhQI1q3ZOG%
3D%3D
&MaxResults=2
&Version=2010-03-31
&AUTHPARAMS

Sample Response

  <ListOriginationNumbersResult>
    <NextToken>eyJBd3NBY2NvdW50SWQiOnsicyI6IjU3MjQ1OTY4NzAxNiJ9LCJEZXN0aWsurveyLCJqIjoiMjAxODg5NjM5OTcifX0=
    <PhoneNumbers>
      <member>
        <CreatedAt>1611952514</CreatedAt>
        <Iso2CountryCode>US</Iso2CountryCode>
        <NumberCapabilities>
          <member>SMS</member>
        </NumberCapabilities>
        <PhoneNumber>+12065550100</PhoneNumber>
        <RouteType>Transactional</RouteType>
        <Status>ACTIVE</Status>
      </member>
      <member>
        <CreatedAt>1611952589</CreatedAt>
        <Iso2CountryCode>CA</Iso2CountryCode>
        <NumberCapabilities>
          <member>SMS</member>
          <member>VOICE</member>
        </NumberCapabilities>
      </member>
    </PhoneNumbers>
  </ListOriginationNumbersResult>
</ListOriginationNumbersResponse>
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListPhoneNumbersOptedOut

Returns a list of phone numbers that are opted out, meaning you cannot send SMS messages to them.

The results for ListPhoneNumbersOptedOut are paginated, and each page returns up to 100 phone numbers. If additional phone numbers are available after the first page of results, then a NextToken string will be returned. To receive the next page, you call ListPhoneNumbersOptedOut again using the NextToken string received from the previous call. When there are no more records to return, NextToken will be null.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

nextToken

A NextToken string is used when you call the ListPhoneNumbersOptedOut action to retrieve additional records that are available after the first page of results.

Type: String
Required: No

Response Elements

The following elements are returned by the service.

nextToken

A NextToken string is returned when you call the ListPhoneNumbersOptedOut action if additional records are available after the first page of results.

Type: String

phoneNumbers.member.N

A list of phone numbers that are opted out of receiving SMS messages. The list is paginated, and each page can contain up to 100 phone numbers.

Type: Array of strings

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

 Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalServerError

 Indicates an internal service error.

HTTP Status Code: 500
See Also

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

Throttled

Indicates that the rate at which requests have been submitted for this action exceeds the limit for your Amazon Web Services account.

HTTP Status Code: 429

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

Lists the platform application objects for the supported push notification services, such as APNS and GCM (Firebase Cloud Messaging). The results for ListPlatformApplications are paginated and return a limited list of applications, up to 100. If additional records are available after the first page results, then a NextToken string will be returned. To receive the next page, you call ListPlatformApplications using the NextToken string received from the previous call. When there are no more records to return, NextToken will be null. For more information, see Using Amazon SNS Mobile Push Notifications.

This action is throttled at 15 transactions per second (TPS).

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

NextToken

NextToken string is used when calling ListPlatformApplications action to retrieve additional records that are available after the first page results.

Type: String
Required: No

Response Elements

The following elements are returned by the service.

NextToken

NextToken string is returned when calling ListPlatformApplications action if additional records are available after the first page results.

Type: String

PlatformApplications.member.N

Platform applications returned when calling ListPlatformApplications action.

Type: Array of PlatformApplication (p. 124) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.
Examples

HTTP Status Code: 500

**InvalidParameter**

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

Examples

The structure of `AUTHPARAMS` depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the *AWS General Reference*.

Example

This example illustrates one usage of `ListPlatformApplications`.

Sample Request

https://sns.us-west-2.amazonaws.com/?Action=ListPlatformApplications
&Version=2010-03-31
&AUTHPARAMS

Sample Response

```
  <ListPlatformApplicationsResult>
    <PlatformApplications>
      <member>
        <Attributes>
          <entry>
            <key>AllowEndpointPolicies</key>
            <value>false</value>
          </entry>
        </Attributes>
      </member>
      <member>
        <Attributes>
          <entry>
            <key>AllowEndpointPolicies</key>
            <value>false</value>
          </entry>
        </Attributes>
      </member>
    </PlatformApplications>
  </ListPlatformApplicationsResult>
  <ResponseMetadata>
    <RequestId>315a335e-85d8-52df-9349-791283ccb529</RequestId>
  </ResponseMetadata>
</ListPlatformApplicationsResponse>
```

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 V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
ListSMSSandboxPhoneNumbers

Lists the calling AWS account's current verified and pending destination phone numbers in the SMS sandbox.

When you start using Amazon SNS to send SMS messages, your AWS account is in the SMS sandbox. The SMS sandbox provides a safe environment for you to try Amazon SNS features without risking your reputation as an SMS sender. While your AWS account is in the SMS sandbox, you can use all of the features of Amazon SNS. However, you can send SMS messages only to verified destination phone numbers. For more information, including how to move out of the sandbox to send messages without restrictions, see SMS sandbox in the Amazon SNS Developer Guide.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

MaxResults

The maximum number of phone numbers to return.

Type: Integer

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

Required: No

NextToken

Token that the previous ListSMSSandboxPhoneNumbersInput request returns.

Type: String

Required: No

Response Elements

The following elements are returned by the service.

NextToken

A NextToken string is returned when you call the ListSMSSandboxPhoneNumbersInput operation if additional pages of records are available.

Type: String

PhoneNumbers.member.N

A list of the calling account's pending and verified phone numbers.

Type: Array of SMSSandboxPhoneNumber (p. 129) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).
Examples

AuthorizationError
Indicates that the user has been denied access to the requested resource.
HTTP Status Code: 403

InternalServerError
Indicates an internal service error.
HTTP Status Code: 500

InvalidParameter
Indicates that a request parameter does not comply with the associated constraints.
HTTP Status Code: 400

ResourceNotFound
Can’t perform the action on the specified resource. Make sure that the resource exists.
HTTP Status Code: 404

Throttled
Indicates that the rate at which requests have been submitted for this action exceeds the limit for your Amazon Web Services account.
HTTP Status Code: 429

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example

This example illustrates one usage of ListSMSSandboxPhoneNumbers.

Sample Request

https://sns.us-west-2.amazonaws.com/?Action=ListSMSSandboxPhoneNumbers
&NextToken=eyJScG9zaXplIjoidG9rZWxzYWJsZVNyb2R1ZGJscG9zaXplIiwidHlwZV9ncmFkIjoidGV4dCIsImluaXRhbGwiOltdfQ%3D%3D
&MaxResults=2
&Version=2010-03-31
&AUTHPARAMS

Sample Response

<ListSMSSandboxPhoneNumbersResponse xmlns="https://sns.amazonaws.com/doc/2010-03-31/">
  <ListSMSSandboxPhoneNumbersResult>
    <NextToken>eyJScG9zaXplIjoidG9rZWxzYWJsZVNyb2R1ZGJscG9zaXplIiwidHlwZV9ncmFkIjoidGV4dCIsImluaXRhbGwiOltdfQ%3D%3D</NextToken>
    <PhoneNumbers>
      <member>
        <PhoneNumber>+12065550111</PhoneNumber>
        <Status>Pending</Status>
      </member>
    </PhoneNumbers>
  </ListSMSSandboxPhoneNumbersResult>
</ListSMSSandboxPhoneNumbersResponse>
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListSubscriptions

Returns a list of the requester's subscriptions. Each call returns a limited list of subscriptions, up to 100. If there are more subscriptions, a NextToken is also returned. Use the NextToken parameter in a new ListSubscriptions call to get further results.

This action is throttled at 30 transactions per second (TPS).

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

NextToken

Token returned by the previous ListSubscriptions request.

Type: String
Required: No

Response Elements

The following elements are returned by the service.

NextToken

Token to pass along to the next ListSubscriptions request. This element is returned if there are more subscriptions to retrieve.

Type: String

Subscriptions.member.N

A list of subscriptions.

Type: Array of Subscription (p. 130) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.
HTTP Status Code: 400

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example

This example illustrates one usage of ListSubscriptions.

Sample Request

https://sns.us-east-2.amazonaws.com/?Action=ListSubscriptions
&Version=2010-03-31
&AUTHPARAMS

Sample Response

  <ListSubscriptionsResult>
    <Subscriptions>
      <member>
        <Protocol>email</Protocol>
        <SubscriptionArn>arn:aws:sns:us-east-2:123456789012:My-Topic:80289ba6-0fd4-4079-afb4-ce8c8260f0ca</SubscriptionArn>
        <Owner>123456789012</Owner>
        <Endpoint>example@amazon.com</Endpoint>
      </member>
    </Subscriptions>
  </ListSubscriptionsResult>
  <ResponseMetadata>
    <RequestId>384ac68d-3775-11df-8963-01868b7c937a</RequestId>
  </ResponseMetadata>
</ListSubscriptionsResponse>

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

Returns a list of the subscriptions to a specific topic. Each call returns a limited list of subscriptions, up to 100. If there are more subscriptions, a NextToken is also returned. Use the NextToken parameter in a new ListSubscriptionsByTopic call to get further results.

This action is throttled at 30 transactions per second (TPS).

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

NextToken

Token returned by the previous ListSubscriptionsByTopic request.

Type: String
Required: No

TopicArn

The ARN of the topic for which you wish to find subscriptions.

Type: String
Required: Yes

Response Elements

The following elements are returned by the service.

NextToken

Token to pass along to the next ListSubscriptionsByTopic request. This element is returned if there are more subscriptions to retrieve.

Type: String

Subscriptions.member.N

A list of subscriptions.

Type: Array of Subscription (p. 130) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.
Examples

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

NotFound

Indicates that the requested resource does not exist.

HTTP Status Code: 404

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example

This example illustrates one usage of ListSubscriptionsByTopic.

Sample Request

```
https://sns.us-east-2.amazonaws.com/?Action=ListSubscriptionsByTopic
&TopicArn=arn%3Aaws%3Asns%3Aus-east-2%3A123456789012%3AMy-Topic
&Version=2010-03-31
&AUTHPARAMS
```

Sample Response

```
 <ListSubscriptionsByTopicResult>
  <Subscriptions>
   <member>
    <Protocol>email</Protocol>
    <SubscriptionArn>arn:aws:sns:us-east-2:123456789012:My-Topic:80289ba6-0fd4-4079-af54-ce8c8260f0ca</SubscriptionArn>
    <Owner>123456789012</Owner>
    <Endpoint>example@amazon.com</Endpoint>
   </member>
  </Subscriptions>
 </ListSubscriptionsByTopicResult>
 <ResponseMetadata>
  <RequestId>b9275252-3774-11df-9540-99d0768312d3</RequestId>
 </ResponseMetadata>
</ListSubscriptionsByTopicResponse>
```

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++
See Also

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

List all tags added to the specified Amazon SNS topic. For an overview, see Amazon SNS Tags in the Amazon Simple Notification Service Developer Guide.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

ResourceArn

The ARN of the topic for which to list tags.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 1011.
Required: Yes

Response Elements

The following element is returned by the service.

Tags.member.N

The tags associated with the specified topic.
Type: Array of Tag (p. 131) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.
HTTP Status Code: 403

ConcurrentAccess

Can't perform multiple operations on a tag simultaneously. Perform the operations sequentially.
HTTP Status Code: 400

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.
HTTP Status Code: 400

ResourceNotFoundException

Can't perform the action on the specified resource. Make sure that the resource exists.
HTTP Status Code: 404
TagPolicy

The request doesn't comply with the IAM tag policy. Correct your request and then retry it.

HTTP Status Code: 400

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example

This example illustrates one usage of ListTagsForResource.

Sample Request

```http
&Version=2010-03-31
&AUTHPARAMS
```

Sample Response

```xml
<ListTagsForResourceResponse>
  <ListTagsForResourceResult>
    <Tags>
      <member>
        <Value>tagValue</Value>
        <Key>tagKey</Key>
      </member>
    </Tags>
  </ListTagsForResourceResult>
  <ResponseMetadata>
    <RequestId>123456a7-b8c9-01de-fg2h-3456i7j890k1</RequestId>
  </ResponseMetadata>
</ListTagsForResourceResponse>
```

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

Returns a list of the requester's topics. Each call returns a limited list of topics, up to 100. If there are more topics, a NextToken is also returned. Use the NextToken parameter in a new ListTopics call to get further results.

This action is throttled at 30 transactions per second (TPS).

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

NextToken

Token returned by the previous ListTopics request.

Type: String

Required: No

Response Elements

The following elements are returned by the service.

NextToken

Token to pass along to the next ListTopics request. This element is returned if there are additional topics to retrieve.

Type: String

Topics.member.N

A list of topic ARNs.

Type: Array of Topic (p. 132) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
OptInPhoneNumber

Use this request to opt in a phone number that is opted out, which enables you to resume sending SMS messages to the number.

You can opt in a phone number only once every 30 days.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

phoneNumber

The phone number to opt in. Use E.164 format.

Type: String
Required: Yes

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

Throttled

Indicates that the rate at which requests have been submitted for this action exceeds the limit for your Amazon Web Services account.

HTTP Status Code: 429

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
See Also

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

Sends a message to an Amazon SNS topic, a text message (SMS message) directly to a phone number, or a message to a mobile platform endpoint (when you specify the TargetArn).

If you send a message to a topic, Amazon SNS delivers the message to each endpoint that is subscribed to the topic. The format of the message depends on the notification protocol for each subscribed endpoint.

When a messageId is returned, the message is saved and Amazon SNS immediately delivers it to subscribers.

To use the Publish action for publishing a message to a mobile endpoint, such as an app on a Kindle device or mobile phone, you must specify the EndpointArn for the TargetArn parameter. The EndpointArn is returned when making a call with the CreatePlatformEndpoint action. The second example below shows a request and response for publishing to a mobile endpoint.

For more information about formatting messages, see Send Custom Platform-Specific Payloads in Messages to Mobile Devices.

Important
You can publish messages only to topics and endpoints in the same AWS Region.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

Message

The message you want to send.

If you are publishing to a topic and you want to send the same message to all transport protocols, include the text of the message as a String value. If you want to send different messages for each transport protocol, set the value of the MessageStructure parameter to json and use a JSON object for the Message parameter. See the Examples section for the format of the JSON object.

Constraints:

- With the exception of SMS, messages must be UTF-8 encoded strings and at most 256 KB in size (262,144 bytes, not 262,144 characters).
- For SMS, each message can contain up to 140 characters. This character limit depends on the encoding schema. For example, an SMS message can contain 160 GSM characters, 140 ASCII characters, or 70 UCS-2 characters.

If you publish a message that exceeds this size limit, Amazon SNS sends the message as multiple messages, each fitting within the size limit. Messages aren't truncated mid-word but are cut off at whole-word boundaries.

The total size limit for a single SMS Publish action is 1,600 characters.

JSON-specific constraints:

- Keys in the JSON object that correspond to supported transport protocols must have simple JSON string values.
- The values will be parsed (unescape) before they are used in outgoing messages.
- Outbound notifications are JSON encoded (meaning that the characters will be reescaped for sending).
Request Parameters

- Values have a minimum length of 0 (the empty string, "", is allowed).
- Values have a maximum length bounded by the overall message size (so, including multiple protocols may limit message sizes).
- Non-string values will cause the key to be ignored.
- Keys that do not correspond to supported transport protocols are ignored.
- Duplicate keys are not allowed.
- Failure to parse or validate any key or value in the message will cause the Publish call to return an error (no partial delivery).

Type: String
Required: Yes

**MessageAttributes**, MessageAttributes.entry.N.Name (key), MessageAttributes.entry.N.Value (value)

Message attributes for Publish action.

Type: String to **MessageAttributeValue** (p. 121) object map
Required: No

**MessageDeduplicationId**

This parameter applies only to FIFO (first-in-first-out) topics. The MessageDeduplicationId can contain up to 128 alphanumeric characters (a-z, A-Z, 0-9) and punctuation ("#%&'( )*+,-./:;<=>?@[^\]^`{||}~).

Every message must have a unique MessageDeduplicationId, which is a token used for deduplication of sent messages. If a message with a particular MessageDeduplicationId is sent successfully, any message sent with the same MessageDeduplicationId during the 5-minute deduplication interval is treated as a duplicate.

If the topic has ContentBasedDeduplication set, the system generates a MessageDeduplicationId based on the contents of the message. Your MessageDeduplicationId overrides the generated one.

Type: String
Required: No

**MessageGroupId**

This parameter applies only to FIFO (first-in-first-out) topics. The MessageGroupId can contain up to 128 alphanumeric characters (a-z, A-Z, 0-9) and punctuation ("#%&'( )*+,-./:;<=>?@[^\]^`{||}~).

The MessageGroupId is a tag that specifies that a message belongs to a specific message group. Messages that belong to the same message group are processed in a FIFO manner (however, messages in different message groups might be processed out of order). Every message must include a MessageGroupId.

Type: String
Required: No

**MessageStructure**

Set MessageStructure to json if you want to send a different message for each protocol. For example, using one publish action, you can send a short message to your SMS subscribers and a longer message to your email subscribers. If you set MessageStructure to json, the value of the Message parameter must:
Response Elements

- be a syntactically valid JSON object; and
- contain at least a top-level JSON key of "default" with a value that is a string.

You can define other top-level keys that define the message you want to send to a specific transport protocol (e.g., "http").

Valid value: json
Type: String
Required: No

**PhoneNumber**

The phone number to which you want to deliver an SMS message. Use E.164 format.

If you don't specify a value for the PhoneNumber parameter, you must specify a value for the TargetArn or TopicArn parameters.

Type: String
Required: No

**Subject**

Optional parameter to be used as the "Subject" line when the message is delivered to email endpoints. This field will also be included, if present, in the standard JSON messages delivered to other endpoints.

Constraints: Subjects must be ASCII text that begins with a letter, number, or punctuation mark; must not include line breaks or control characters; and must be less than 100 characters long.

Type: String
Required: No

**TargetArn**

If you don't specify a value for the TargetArn parameter, you must specify a value for the PhoneNumber or TopicArn parameters.

Type: String
Required: No

**TopicArn**

The topic you want to publish to.

If you don't specify a value for the TopicArn parameter, you must specify a value for the PhoneNumber or TargetArn parameters.

Type: String
Required: No

---

**Response Elements**

The following elements are returned by the service.

**MessageId**

Unique identifier assigned to the published message.
Errors

Length Constraint: Maximum 100 characters

Type: String

**SequenceNumber**

This response element applies only to FIFO (first-in-first-out) topics.

The sequence number is a large, non-consecutive number that Amazon SNS assigns to each message. The length of `SequenceNumber` is 128 bits. `SequenceNumber` continues to increase for each `MessageGroupId`.

Type: String

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 135).

**AuthorizationError**

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

**EndpointDisabled**

Exception error indicating endpoint disabled.

HTTP Status Code: 400

**InternalError**

Indicates an internal service error.

HTTP Status Code: 500

**InvalidParameter**

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

**InvalidSecurity**

The credential signature isn't valid. You must use an HTTPS endpoint and sign your request using Signature Version 4.

HTTP Status Code: 403

**KMSAccessDenied**

The ciphertext references a key that doesn't exist or that you don't have access to.

HTTP Status Code: 400

**KMSDisabled**

The request was rejected because the specified customer master key (CMK) isn't enabled.

HTTP Status Code: 400

**KMSInvalidState**

The request was rejected because the state of the specified resource isn't valid for this request. For more information, see How Key State Affects Use of a Customer Master Key in the AWS Key Management Service Developer Guide.
Examples

HTTP Status Code: 400
KMSNotFound
The request was rejected because the specified entity or resource can't be found.

HTTP Status Code: 400
KMSOptInRequired
The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403
KMSThrottling
The request was denied due to request throttling. For more information about throttling, see Limits in the AWS Key Management Service Developer Guide.

HTTP Status Code: 400
NotFound
Indicates that the requested resource does not exist.

HTTP Status Code: 404
ParameterValueInvalid
Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400
PlatformApplicationDisabled
Exception error indicating platform application disabled.

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example

This example illustrates one usage of Publish.

Sample Request

```plaintext
&TargetArn=arn%3Aaws%3Asns%3Aus-west-2%3A803981987763%3Aendpoint%2FAPNS_SANDBOX%2Fpushapp%2F98e9ced9-f136-3893-9d60-776547eafebb
&Message=%7B%22default%22%3A%22This+is+the+default+Message%22%2C%22APNS_SANDBOX%22%3A%7B+%5C%22alert%5C%22+%3A+%5C%22You+have+got+email.%5C%22%2C++%5C%22badge%5C%22+%3A+9%2C+%5C%22sound%5C%22+%3A%5C%22default%5C%22%7D%7D%7D%7D%7D%7D%7D%7D
&Version=2010-03-31
&AUTHPARAMS
```

Sample Response

```xml
```

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Example

The following example publishes a different messages to each protocol:

The JSON format for Message is as follows:

```
{
    "default": "A message.",
    "email": "A message for email.",
    "email-json": "A message for email (JSON).",
    "http": "A message for HTTP.",
    "https": "A message for HTTPS.",
    "sqs": "A message for Amazon SQS."
}
```

Sample Request

```
https://sns.us-east-2.amazonaws.com/?Action=Publish
&TopicArn=arn%3Aaws%3Asns%3Aus-east-2%3A698519295917%3AMy-Topic
&Subject=My%20first%20message
&Message=Hello%20world%21
&Version=2010-03-31
&AUTHPARAMS
```

Sample Response

```
    <PublishResult>
        <MessageId>94f20ce6-13c5-43a0-9a9e-ca52d816e90b</MessageId>
    </PublishResult>
    <ResponseMetadata>
        <RequestId>f187a3c1-376f-11df-8963-01868b7c937a</RequestId>
    </ResponseMetadata>
</PublishResponse>
```

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
• AWS SDK for Ruby V3
PublishBatch

Publishes up to ten messages to the specified topic. This is a batch version of Publish. For FIFO topics, multiple messages within a single batch are published in the order they are sent, and messages are deduplicated within the batch and across batches for 5 minutes.

The result of publishing each message is reported individually in the response. Because the batch request can result in a combination of successful and unsuccessful actions, you should check for batch errors even when the call returns an HTTP status code of 200.

The maximum allowed individual message size and the maximum total payload size (the sum of the individual lengths of all of the batched messages) are both 256 KB (262,144 bytes).

Some actions take lists of parameters. These lists are specified using the param.n notation. Values of n are integers starting from 1. For example, a parameter list with two elements looks like this:

&AttributeName.1=first
&AttributeName.2=second

If you send a batch message to a topic, Amazon SNS publishes the batch message to each endpoint that is subscribed to the topic. The format of the batch message depends on the notification protocol for each subscribed endpoint.

When a messageId is returned, the batch message is saved and Amazon SNS immediately delivers the message to subscribers.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

PublishBatchRequestEntries.member.N

A list of PublishBatch request entries to be sent to the SNS topic.

Type: Array of PublishBatchRequestEntry (p. 125) objects

Required: Yes

TopicArn

The Amazon resource name (ARN) of the topic you want to batch publish to.

Type: String

Required: Yes

Response Elements

The following elements are returned by the service.

Failed.member.N

A list of failed PublishBatch responses.

Type: Array of BatchResultErrorEntry (p. 119) objects
Successful.member.N

A list of successful PublishBatch responses.

Type: Array of PublishBatchResultEntry (p. 128) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

BatchEntryIdsNotDistinct

Two or more batch entries in the request have the same Id.

HTTP Status Code: 400

BatchRequestTooLong

The length of all the batch messages put together is more than the limit.

HTTP Status Code: 400

EmptyBatchRequest

The batch request doesn't contain any entries.

HTTP Status Code: 400

EndpointDisabled

Exception error indicating endpoint disabled.

HTTP Status Code: 400

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidBatchEntryId

The Id of a batch entry in a batch request doesn't abide by the specification.

HTTP Status Code: 400

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

InvalidSecurity

The credential signature isn't valid. You must use an HTTPS endpoint and sign your request using Signature Version 4.

HTTP Status Code: 403
KMSAccessDenied
The ciphertext references a key that doesn't exist or that you don't have access to.
HTTP Status Code: 400

KMSDisabled
The request was rejected because the specified customer master key (CMK) isn't enabled.
HTTP Status Code: 400

KMSInvalidState
The request was rejected because the state of the specified resource isn't valid for this request.
For more information, see How Key State Affects Use of a Customer Master Key in the AWS Key Management Service Developer Guide.
HTTP Status Code: 400

KMSNotFound
The request was rejected because the specified entity or resource can't be found.
HTTP Status Code: 400

KMSOptInRequired
The AWS access key ID needs a subscription for the service.
HTTP Status Code: 403

KMSThrottling
The request was denied due to request throttling. For more information about throttling, see Limits in the AWS Key Management Service Developer Guide.
HTTP Status Code: 400

NotFound
Indicates that the requested resource does not exist.
HTTP Status Code: 404

ParameterValueInvalid
Indicates that a request parameter does not comply with the associated constraints.
HTTP Status Code: 400

PlatformApplicationDisabled
Exception error indicating platform application disabled.
HTTP Status Code: 400

TooManyEntriesInBatchRequest
The batch request contains more entries than permissible.
HTTP Status Code: 400

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

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

Removes a statement from a topic's access control policy.

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

**Label**

The unique label of the statement you want to remove.

Type: String

Required: Yes

**TopicArn**

The ARN of the topic whose access control policy you wish to modify.

Type: String

Required: Yes

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 135).

**AuthorizationError**

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

**InternalError**

Indicates an internal service error.

HTTP Status Code: 500

**InvalidParameter**

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

**NotFound**

Indicates that the requested resource does not exist.

HTTP Status Code: 404

**Examples**

The structure of **AUTHPARAMS** depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.
Example

This example illustrates one usage of RemovePermission.

Sample Request

https://sns.us-east-2.amazonaws.com/?Action=RemovePermission
&TopicArn=arn%3Aaws%3Asns%3AUs-east-2%3A123456789012%3AMy-Test
&Label=NewPermission
&Version=2010-03-31
&AUTHPARAMS

Sample Response

  <ResponseMetadata>
    <RequestId>d170b150-33a8-11df-995a-2d6fbe836cc1</RequestId>
  </ResponseMetadata>
</RemovePermissionResponse>

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

Sets the attributes for an endpoint for a device on one of the supported push notification services, such as GCM (Firebase Cloud Messaging) and APNS. For more information, see Using Amazon SNS Mobile Push Notifications.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

Attributes, Attributes.entry.N.key (key), Attributes.entry.N.value (value)

A map of the endpoint attributes. Attributes in this map include the following:

- **CustomUserData** – arbitrary user data to associate with the endpoint. Amazon SNS does not use this data. The data must be in UTF-8 format and less than 2KB.
- **Enabled** – flag that enables/disables delivery to the endpoint. Amazon SNS will set this to false when a notification service indicates to Amazon SNS that the endpoint is invalid. Users can set it back to true, typically after updating Token.
- **Token** – device token, also referred to as a registration id, for an app and mobile device. This is returned from the notification service when an app and mobile device are registered with the notification service.

Type: String to string map

Required: Yes

EndpointArn

EndpointArn used for SetEndpointAttributes action.

Type: String

Required: Yes

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

NotFound

Indicates that the requested resource does not exist.
HTTP Status Code: 404

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example

This example illustrates one usage of SetEndpointAttributes.

Sample Request

```plaintext
https://sns.us-west-2.amazonaws.com/?Action=SetEndpointAttributes
&EndpointArn=arn%3Aaws%3Asns%3Aus-west-2%3A123456789012%3Aendpoint%2FGCM%2Fgcmpushapp
%2F5e3e9847-3183-3f18-a7e8-671c3a57d4b3
&Attributes.entry.1.key=CustomUserData
&Attributes.entry.1.value=My+custom+userdata
&Version=2010-03-31
&AUTHPARAMS
```

Sample Response

```xml
<SetEndpointAttributesResponse xmlns="https://sns.amazonaws.com/doc/2010-03-31/">
  <ResponseMetadata>
    <RequestId>2fe0bfc7-35b5-5ee5-a9e2-f58b35e85f6a</RequestId>
  </ResponseMetadata>
</SetEndpointAttributesResponse>
```

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

Sets the attributes of the platform application object for the supported push notification services, such as APNS and GCM (Firebase Cloud Messaging). For more information, see Using Amazon SNS Mobile Push Notifications. For information on configuring attributes for message delivery status, see Using Amazon SNS Application Attributes for Message Delivery Status.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

Attributes, Attributes.entry.N.key (key), Attributes.entry.N.value (value)

A map of the platform application attributes. Attributes in this map include the following:

- **PlatformCredential** – The credential received from the notification service.
  - For ADM, PlatformCredential is client secret.
  - For Apple Services using certificate credentials, PlatformCredential is private key.
  - For Apple Services using token credentials, PlatformCredential is signing key.
  - For GCM (Firebase Cloud Messaging), PlatformCredential is API key.
- **PlatformPrincipal** – The principal received from the notification service.
  - For ADM, PlatformPrincipal is client id.
  - For Apple Services using certificate credentials, PlatformPrincipal is SSL certificate.
  - For Apple Services using token credentials, PlatformPrincipal is signing key ID.
  - For GCM (Firebase Cloud Messaging), there is no PlatformPrincipal.
- **EventEndpointCreated** – Topic ARN to which EndpointCreated event notifications are sent.
- **EventEndpointDeleted** – Topic ARN to which EndpointDeleted event notifications are sent.
- **EventEndpointUpdated** – Topic ARN to which EndpointUpdate event notifications are sent.
- **EventDeliveryFailure** – Topic ARN to which DeliveryFailure event notifications are sent upon Direct Publish delivery failure (permanent) to one of the application's endpoints.
- **SuccessFeedbackRoleArn** – IAM role ARN used to give Amazon SNS write access to use CloudWatch Logs on your behalf.
- **FailureFeedbackRoleArn** – IAM role ARN used to give Amazon SNS write access to use CloudWatch Logs on your behalf.
- **SuccessFeedbackSampleRate** – Sample rate percentage (0-100) of successfully delivered messages.

The following attributes only apply to APNs token-based authentication:

- **ApplePlatformTeamID** – The identifier that's assigned to your Apple developer account team.
- **ApplePlatformBundleID** – The bundle identifier that's assigned to your iOS app.

Type: String to string map

Required: Yes

**PlatformApplicationArn**

PlatformApplicationArn for SetPlatformApplicationAttributes action.

Type: String

Required: Yes
Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

NotFound

Indicates that the requested resource does not exist.

HTTP Status Code: 404

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example

This example illustrates one usage of SetPlatformApplicationAttributes.

Sample Request

https://sns.us-west-2.amazonaws.com/?Action=SetPlatformApplicationAttributes
&Attributes.entry.1.key=EventEndpointCreated&PlatformApplicationArn=arn%3Aaws%3Asns%3Aus-west-2%3A123456789012%3Aapp%2FGCM%2Fgcmpushapp
&Attributes.entry.1.value=arn%3Aaws%3Asns%3Aus-west-2%3A123456789012%3Atopicarn
&Version=2010-03-31
&AUTHPARAMS

Sample Response

  <ResponseMetadata>
    <RequestId>cf577bcc-b3dc-5463-88f1-3180b9412395</RequestId>
  </ResponseMetadata>
</SetPlatformApplicationAttributesResponse>

See Also

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

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

Use this request to set the default settings for sending SMS messages and receiving daily SMS usage reports.

You can override some of these settings for a single message when you use the Publish action with the MessageAttributes.entry.N parameter. For more information, see Publishing to a mobile phone in the Amazon SNS Developer Guide.

**Note**
To use this operation, you must grant the Amazon SNS service principal (sns.amazonaws.com) permission to perform the s3:ListBucket action.

**Request Parameters**
For information about the parameters that are common to all actions, see Common Parameters (p. 133).

`attributes`, `attributes.entry.N.key` (key), `attributes.entry.N.value` (value)

The default settings for sending SMS messages from your AWS account. You can set values for the following attribute names:

**MonthlySpendLimit** – The maximum amount in USD that you are willing to spend each month to send SMS messages. When Amazon SNS determines that sending an SMS message would incur a cost that exceeds this limit, it stops sending SMS messages within minutes.

**Important**
Amazon SNS stops sending SMS messages within minutes of the limit being crossed. During that interval, if you continue to send SMS messages, you will incur costs that exceed your limit.

By default, the spend limit is set to the maximum allowed by Amazon SNS. If you want to raise the limit, submit an SNS Limit Increase case. For **New limit value**, enter your desired monthly spend limit. In the **Use Case Description** field, explain that you are requesting an SMS monthly spend limit increase.

**DeliveryStatusIAMRole** – The ARN of the IAM role that allows Amazon SNS to write logs about SMS deliveries in CloudWatch Logs. For each SMS message that you send, Amazon SNS writes a log that includes the message price, the success or failure status, the reason for failure (if the message failed), the message dwell time, and other information.

**DeliveryStatusSuccessSamplingRate** – The percentage of successful SMS deliveries for which Amazon SNS will write logs in CloudWatch Logs. The value can be an integer from 0 - 100. For example, to write logs only for failed deliveries, set this value to 0. To write logs for 10% of your successful deliveries, set it to 10.

**DefaultSenderId** – A string, such as your business brand, that is displayed as the sender on the receiving device. Support for sender IDs varies by country. The sender ID can be 1 - 11 alphanumeric characters, and it must contain at least one letter.

**DefaultSMSType** – The type of SMS message that you will send by default. You can assign the following values:
- **Promotional** – (Default) Noncritical messages, such as marketing messages. Amazon SNS optimizes the message delivery to incur the lowest cost.
- **Transactional** – Critical messages that support customer transactions, such as one-time passcodes for multi-factor authentication. Amazon SNS optimizes the message delivery to achieve the highest reliability.
UsageReportS3Bucket – The name of the Amazon S3 bucket to receive daily SMS usage reports from Amazon SNS. Each day, Amazon SNS will deliver a usage report as a CSV file to the bucket. The report includes the following information for each SMS message that was successfully delivered by your AWS account:

- Time that the message was published (in UTC)
- Message ID
- Destination phone number
- Message type
- Delivery status
- Message price (in USD)
- Part number (a message is split into multiple parts if it is too long for a single message)
- Total number of parts

To receive the report, the bucket must have a policy that allows the Amazon SNS service principal to perform the `s3:PutObject` and `s3:GetBucketLocation` actions.

For an example bucket policy and usage report, see Monitoring SMS Activity in the Amazon SNS Developer Guide.

Type: String to string map

Required: Yes

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

Throttled

Indicates that the rate at which requests have been submitted for this action exceeds the limit for your Amazon Web Services account.

HTTP Status Code: 429
Examples

Example policy

You can use the following example policy to provide permission for the Amazon SNS service principal to run the `s3:ListBucket` action. Replace `my-s3-bucket` with the S3 bucket you specified in the `UsageReportS3Bucket` parameter.

```json
{
   "Version": "2008-10-17",
   "Statement": [{
      "Sid": "AllowListBucket",
      "Effect": "Allow",
      "Principal": {
         "Service": "sns.amazonaws.com"
      },
      "Action": "s3:ListBucket",
      "Resource": "arn:aws:s3:::my-s3-bucket"
   }]
}
```

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

Allows a subscription owner to set an attribute of the subscription to a new value.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

AttributeName

A map of attributes with their corresponding values.

The following lists the names, descriptions, and values of the special request parameters that this action uses:

• **DeliveryPolicy** – The policy that defines how Amazon SNS retries failed deliveries to HTTP/S endpoints.
• **FilterPolicy** – The simple JSON object that lets your subscriber receive only a subset of messages, rather than receiving every message published to the topic.
• **RawMessageDelivery** – When set to true, enables raw message delivery to Amazon SQS or HTTP/S endpoints. This eliminates the need for the endpoints to process JSON formatting, which is otherwise created for Amazon SNS metadata.
• **RedrivePolicy** – When specified, sends undeliverable messages to the specified Amazon SQS dead-letter queue. Messages that can’t be delivered due to client errors (for example, when the subscribed endpoint is unreachable) or server errors (for example, when the service that powers the subscribed endpoint becomes unavailable) are held in the dead-letter queue for further analysis or reprocessing.

The following attribute applies only to Amazon Kinesis Data Firehose delivery stream subscriptions:

• **SubscriptionRoleArn** – The ARN of the IAM role that has the following:
  • Permission to write to the Kinesis Data Firehose delivery stream
  • Amazon SNS listed as a trusted entity

Specifying a valid ARN for this attribute is required for Kinesis Data Firehose delivery stream subscriptions. For more information, see Fanout to Kinesis Data Firehose delivery streams in the Amazon SNS Developer Guide.

  Type: String
  Required: Yes

AttributeValue

The new value for the attribute in JSON format.

  Type: String
  Required: No

SubscriptionArn

The ARN of the subscription to modify.

  Type: String
  Required: Yes
Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError
- Indicates that the user has been denied access to the requested resource.
- HTTP Status Code: 403

FilterPolicyLimitExceeded
- Indicates that the number of filter polices in your AWS account exceeds the limit. To add more filter polices, submit an Amazon SNS Limit Increase case in the AWS Support Center.
- HTTP Status Code: 403

InternalError
- Indicates an internal service error.
- HTTP Status Code: 500

InvalidParameter
- Indicates that a request parameter does not comply with the associated constraints.
- HTTP Status Code: 400

NotFound
- Indicates that the requested resource does not exist.
- HTTP Status Code: 404

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example

The following example sets the delivery policy to 5 retries.

The JSON format for AttributeValue is as follows:

```json
{
   "healthyRetryPolicy": {
       "minDelayTarget": <int>,
       "maxDelayTarget": <int>,
       "numRetries": <int>,
       "numMaxDelayRetries": <int>,
       "backoffFunction": ":linear|arithmetic|geometric|exponential"
   },
   "throttlePolicy": {
       "maxReceivesPerSecond": <int>
   }
}
```

Sample Request

https://sns.us-east-2.amazonaws.com/?Action=SetSubscriptionAttributes
See Also

| &SubscriptionArn=arn%3Aaws%3Asns%3Aus-east-2%3A123456789012%3AMy-Topic &AttributeName=DeliveryPolicy &AttributeValue={"healthyRetryPolicy":{"numRetries":5}} &Version=2010-03-31 &AUTHPARAMS

Sample Response

| <SetSubscriptionAttributesResponse xmlns="https://sns.amazonaws.com/doc/2010-03-31/">
  | <ResponseMetadata>
  |   | <RequestId>a8763b99-33a7-11df-a9b7-05d48da6f042</RequestId>
  | </ResponseMetadata>
  | </SetSubscriptionAttributesResponse>

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

Allows a topic owner to set an attribute of the topic to a new value.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

AttributeName

A map of attributes with their corresponding values.

The following lists the names, descriptions, and values of the special request parameters that the SetTopicAttributes action uses:

- **DeliveryPolicy** – The policy that defines how Amazon SNS retries failed deliveries to HTTP/S endpoints.
- **DisplayName** – The display name to use for a topic with SMS subscriptions.
- **Policy** – The policy that defines who can access your topic. By default, only the topic owner can publish or subscribe to the topic.

The following attribute applies only to server-side-encryption:

- **KmsMasterKeyId** – The ID of an AWS managed customer master key (CMK) for Amazon SNS or a custom CMK. For more information, see Key Terms. For more examples, see KeyId in the AWS Key Management Service API Reference.

The following attribute applies only to FIFO topics:

- **ContentBasedDeduplication** – Enables content-based deduplication for FIFO topics.
  - By default, ContentBasedDeduplication is set to false. If you create a FIFO topic and this attribute is false, you must specify a value for the MessageDeduplicationId parameter for the Publish action.
  - When you set ContentBasedDeduplication to true, Amazon SNS uses a SHA-256 hash to generate the MessageDeduplicationId using the body of the message (but not the attributes of the message).

    (Optional) To override the generated value, you can specify a value for the MessageDeduplicationId parameter for the Publish action.

  Type: String
  Required: Yes

AttributeValue

The new value for the attribute.

Type: String
Required: No

TopicArn

The ARN of the topic to modify.

Type: String
Required: Yes
Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

InvalidSecurity

The credential signature isn't valid. You must use an HTTPS endpoint and sign your request using Signature Version 4.

HTTP Status Code: 403

NotFound

Indicates that the requested resource does not exist.

HTTP Status Code: 404

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example

The following example sets the DisplayName attribute to MyTopicName.

Sample Request

https://sns.us-east-2.amazonaws.com/?Action=SetTopicAttributes
&TopicArn=arn%3Aaws%3Asns%3Aus-east-2%3A123456789012%3AMy-Topic
&AttributeName=DisplayName
&AttributeValue=MyTopicName
&Version=2010-03-31
&AUTHPARAMS

Sample Response

  <ResponseMetadata>
    <RequestId>a8763b99-33a7-11df-a9b7-05d48da6f042</RequestId>
  </ResponseMetadata>
</SetTopicAttributesResponse>
Example

The following example sets the delivery policy to 5 retries.

The JSON format for `AttributeValue` is as follows:

```
"http": {
    "defaultHealthyRetryPolicy": {
        "minDelayTarget": <int>,
        "maxDelayTarget": <int>,
        "numRetries": <int>,
        "numMaxDelayRetries": <int>,
        "backoffFunction": "<linear|arithmetic|geometric|exponential>"
    },
    "disableSubscriptionOverrides": <boolean>,
    "defaultThrottlePolicy": {
        "maxReceivesPerSecond": <int>
    }
}
```

Sample Request

```
https://sns.us-east-2.amazonaws.com/?Action=SetTopicAttributes
&TopicArn=arn%3Aaws%3Asns%3Aus-east-2%3A123456789012%3AMy-Topic
&AttributeName=DeliveryPolicy
&AttributeValue="http":{"defaultHealthyRetryPolicy":{"numRetries":5}}"
&Version=2010-03-31
&AUTHPARAMS
```

Sample Response

```
    <ResponseMetadata>
        <RequestId>a8763b99-33a7-11df-a9b7-05d46da6f042</RequestId>
    </ResponseMetadata>
</SetTopicAttributesResponse>
```

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

Subscribes an endpoint to an Amazon SNS topic. If the endpoint type is HTTP/S or email, or if the endpoint and the topic are not in the same AWS account, the endpoint owner must run the ConfirmSubscription action to confirm the subscription.

You call the ConfirmSubscription action with the token from the subscription response. Confirmation tokens are valid for three days.

This action is throttled at 100 transactions per second (TPS).

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

Attributes, Attributes.entry.N.key (key), Attributes.entry.N.value (value)

A map of attributes with their corresponding values.

The following lists the names, descriptions, and values of the special request parameters that the Subscribe action uses:

- **DeliveryPolicy** – The policy that defines how Amazon SNS retries failed deliveries to HTTP/S endpoints.
- **FilterPolicy** – The simple JSON object that lets your subscriber receive only a subset of messages, rather than receiving every message published to the topic.
- **RawMessageDelivery** – When set to `true`, enables raw message delivery to Amazon SQS or HTTP/S endpoints. This eliminates the need for the endpoints to process JSON formatting, which is otherwise created for Amazon SNS metadata.
- **RedrivePolicy** – When specified, sends undeliverable messages to the specified Amazon SQS dead-letter queue. Messages that can’t be delivered due to client errors (for example, when the subscribed endpoint is unreachable) or server errors (for example, when the service that powers the subscribed endpoint becomes unavailable) are held in the dead-letter queue for further analysis or reprocessing.

The following attribute applies only to Amazon Kinesis Data Firehose delivery stream subscriptions:

- **SubscriptionRoleArn** – The ARN of the IAM role that has the following:
  - Permission to write to the Kinesis Data Firehose delivery stream
  - Amazon SNS listed as a trusted entity

Specifying a valid ARN for this attribute is required for Kinesis Data Firehose delivery stream subscriptions. For more information, see Fanout to Kinesis Data Firehose delivery streams in the Amazon SNS Developer Guide.

Type: String to string map

Required: No

**Endpoint**

The endpoint that you want to receive notifications. Endpoints vary by protocol:

- For the `http` protocol, the (public) endpoint is a URL beginning with `http://`.
- For the `https` protocol, the (public) endpoint is a URL beginning with `https://`.
- For the `email` protocol, the endpoint is an email address.
- For the `email-json` protocol, the endpoint is an email address.
- For the `sms` protocol, the endpoint is a phone number of an SMS-enabled device.
Response Elements

- For the `sqs` protocol, the endpoint is the ARN of an Amazon SQS queue.
- For the `application` protocol, the endpoint is the EndpointArn of a mobile app and device.
- For the `lambda` protocol, the endpoint is the ARN of an AWS Lambda function.
- For the `firehose` protocol, the endpoint is the ARN of an Amazon Kinesis Data Firehose delivery stream.

Type: String
Required: No

Protocol

The protocol that you want to use. Supported protocols include:
- `http` – delivery of JSON-encoded message via HTTP POST
- `https` – delivery of JSON-encoded message via HTTPS POST
- `email` – delivery of message via SMTP
- `email-json` – delivery of JSON-encoded message via SMTP
- `sms` – delivery of message via SMS
- `sqs` – delivery of JSON-encoded message to an Amazon SQS queue
- `application` – delivery of JSON-encoded message to an EndpointArn for a mobile app and device
- `lambda` – delivery of JSON-encoded message to an AWS Lambda function
- `firehose` – delivery of JSON-encoded message to an Amazon Kinesis Data Firehose delivery stream.

Type: String
Required: Yes

ReturnSubscriptionArn

Sets whether the response from the `Subscribe` request includes the subscription ARN, even if the subscription is not yet confirmed.

If you set this parameter to `true`, the response includes the ARN in all cases, even if the subscription is not yet confirmed. In addition to the ARN for confirmed subscriptions, the response also includes the pending subscription ARN value for subscriptions that aren't yet confirmed. A subscription becomes confirmed when the subscriber calls the `ConfirmSubscription` action with a confirmation token.

The default value is `false`.

Type: Boolean
Required: No

TopicArn

The ARN of the topic you want to subscribe to.

Type: String
Required: Yes

Response Elements

The following element is returned by the service.
SubscriptionArn

The ARN of the subscription if it is confirmed, or the string "pending confirmation" if the subscription requires confirmation. However, if the API request parameter ReturnSubscriptionArn is true, then the value is always the subscription ARN, even if the subscription requires confirmation.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

FilterPolicyLimitExceeded

Indicates that the number of filter polices in your AWS account exceeds the limit. To add more filter polices, submit an Amazon SNS Limit Increase case in the AWS Support Center.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

InvalidSecurity

The credential signature isn't valid. You must use an HTTPS endpoint and sign your request using Signature Version 4.

HTTP Status Code: 403

NotFound

Indicates that the requested resource does not exist.

HTTP Status Code: 404

SubscriptionLimitExceeded

Indicates that the customer already owns the maximum allowed number of subscriptions.

HTTP Status Code: 403

Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.
**Example of an Amazon SQS subscription**

The following example Query request subscribes an Amazon SQS queue to an SNS topic. For more information, see Subscribe Queue to Amazon SNS Topic in the *Amazon SQS Developer Guide*.

**Sample Request**

```
https://sns.us-west-2.amazonaws.com/?Action=Subscribe
&Endpoint=arn:aws:sqs:us-west-2:123456789012:MyQueue
&Protocol=sqs
&Version=2010-03-31
```

**Sample Response**

```
  <SubscribeResult>
    <SubscriptionArn>arn:aws:sns:us-west-2:123456789012:MyTopic:6b0e71bd-7e97-4d97-80ce-4a0994e55286</SubscriptionArn>
  </SubscribeResult>
  <ResponseMetadata>
    <RequestId>c4407779-24a4-56fa-982c-3d927f93a775</RequestId>
  </ResponseMetadata>
</SubscribeResponse>
```

**Example of an Amazon Kinesis Data Firehose delivery stream subscription**

This example illustrates one usage of Subscribe.

**Sample Request**

```
https://sns.us-west-2.amazonaws.com/?Action=Subscribe
&Protocol=firehose
&Attributes.entry.1.key=SubscriptionRoleArn
&Attributes.entry.1.value=arn:aws:iam::123456789012:role/FirehoseRoleArn
&Version=2010-03-31
```

**Sample Response**

```
  <SubscribeResult>
    <SubscriptionArn>arn:aws:sns:us-west-2:123456789012:MyTopic:6b0e71bd-7e97-4d97-80ce-4a0994e55286</SubscriptionArn>
  </SubscribeResult>
  <ResponseMetadata>
    <RequestId>c4407779-24a4-56fa-982c-3d927f93a775</RequestId>
  </ResponseMetadata>
</SubscribeResponse>
```
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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
TagResource

Add tags to the specified Amazon SNS topic. For an overview, see Amazon SNS Tags in the Amazon SNS Developer Guide.

When you use topic tags, keep the following guidelines in mind:

- Adding more than 50 tags to a topic isn’t recommended.
- Tags don’t have any semantic meaning. Amazon SNS interprets tags as character strings.
- Tags are case-sensitive.
- A new tag with a key identical to that of an existing tag overwrites the existing tag.
- Tagging actions are limited to 10 TPS per AWS account, per AWS Region. If your application requires a higher throughput, file a technical support request.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

ResourceArn

The ARN of the topic to which to add tags.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

Tags.member.N

The tags to be added to the specified topic. A tag consists of a required key and an optional value.

Type: Array of Tag (p. 131) objects

Required: Yes

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

ConcurrentAccess

Can’t perform multiple operations on a tag simultaneously. Perform the operations sequentially.

HTTP Status Code: 400

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400
Examples

**ResourceNotFound**

Can't perform the action on the specified resource. Make sure that the resource exists.

HTTP Status Code: 404

**StaleTag**

A tag has been added to a resource with the same ARN as a deleted resource. Wait a short while and then retry the operation.

HTTP Status Code: 400

**TagLimitExceeded**

Can't add more than 50 tags to a topic.

HTTP Status Code: 400

**TagPolicy**

The request doesn't comply with the IAM tag policy. Correct your request and then retry it.

HTTP Status Code: 400

---

**Examples**

The structure of `AUTHPARAMS` depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the [AWS General Reference](https://aws.amazon.com/documentation/).

**Example**

This example illustrates one usage of TagResource.

**Sample Request**

```plaintext
http://sns.us-west-2.amazonaws.com/?&Action=TagResource
&ResourceArn=arn%3Aaws%3Asns%3Aus-west-2%3A123456789012%3Atagging
&Tags.Tag.1.Key=tagKey
&Tags.Tag.1.Value=tagValue
&Version=2010-03-31
&AUTHPARAMS
```

**Sample Response**

```xml
<TagResourceResponse>
  <TagResourceResult/>
  <ResponseMetadata>
    <RequestId>a1b2c3de-fg45-67h8-19j0-k1lm234n5678</RequestId>
  </ResponseMetadata>
</TagResourceResponse>
```

---

**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
See Also

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

Deletes a subscription. If the subscription requires authentication for deletion, only the owner of the
subscription or the topic's owner can unsubscribe, and an AWS signature is required. If the Unsubscribe
call does not require authentication and the requester is not the subscription owner, a final cancellation
message is delivered to the endpoint, so that the endpoint owner can easily resubscribe to the topic if
the Unsubscribe request was unintended.

This action is throttled at 100 transactions per second (TPS).

Request Parameters

For information about the parameters that are common to all actions, see Common
Parameters (p. 133).

SubscriptionArn

The ARN of the subscription to be deleted.

Type: String

Required: Yes

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

InvalidSecurity

The credential signature isn't valid. You must use an HTTPS endpoint and sign your request using
Signature Version 4.

HTTP Status Code: 403

NotFoundError

Indicates that the requested resource does not exist.

HTTP Status Code: 404
Examples

The structure of AUTHPARAMS depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the AWS General Reference.

Example

This example illustrates one usage of Unsubscribe.

Sample Request

```
https://sns.us-east-2.amazonaws.com/?Action=Unsubscribe
&SubscriptionArn=arn%3Aaws%3Asns%3Aus-east-2%3A123456789012%3AMy-Topic
%3A80289ba6-0fd4-4079-afb4-ce8c8260f0ca
&Version=2010-03-31
&AUTHPARAMS
```

Sample Response

```
  <ResponseMetadata>
    <RequestId>18e0ac39-3776-11df-84c0-b93cc166b84</RequestId>
  </ResponseMetadata>
</UnsubscribeResponse>
```

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

Remove tags from the specified Amazon SNS topic. For an overview, see Amazon SNS Tags in the Amazon SNS Developer Guide.

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

ResourceArn

The ARN of the topic from which to remove tags.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

TagKeys.member.N

The list of tag keys to remove from the specified topic.

Type: Array of strings


Required: Yes

Errors

For information about the errors that are common to all actions, see Common Errors (p. 135).

AuthorizationError

Indicates that the user has been denied access to the requested resource.

HTTP Status Code: 403

ConcurrentAccess

Can't perform multiple operations on a tag simultaneously. Perform the operations sequentially.

HTTP Status Code: 400

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

ResourceNotFound

Can't perform the action on the specified resource. Make sure that the resource exists.

HTTP Status Code: 404

StaleTag

A tag has been added to a resource with the same ARN as a deleted resource. Wait a short while and then retry the operation.
Examples

HTTP Status Code: 400

**TagLimitExceeded**

Can't add more than 50 tags to a topic.

HTTP Status Code: 400

**TagPolicy**

The request doesn't comply with the IAM tag policy. Correct your request and then retry it.

HTTP Status Code: 400

Examples

The structure of `AUTHPARAMS` depends on the signature of the API request. For more information, see Examples of the complete Signature Version 4 signing process (Python) in the *AWS General Reference*.

Example

This example illustrates one usage of UntagResource.

Sample Request

```
&ResourceArn=arn%3Aaws%3Asns%3Aus-east-1%3A123456789012%3Atagging
&TagKeys.TagKey.1=tagKey
&Version=2010-03-31
&AUTHPARAMS
```

Sample Response

```
<UntagResourceResponse>
  <UntagResourceResult/>
  <ResponseMetadata>
    <RequestId>1a34f567-8bc9-01de-f234-g5678908112</RequestId>
  </ResponseMetadata>
</UntagResourceResponse>
```

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

VerifySMSSandboxPhoneNumber

Verifies a destination phone number with a one-time password (OTP) for the calling AWS account.

When you start using Amazon SNS to send SMS messages, your AWS account is in the SMS sandbox. The SMS sandbox provides a safe environment for you to try Amazon SNS features without risking your reputation as an SMS sender. While your AWS account is in the SMS sandbox, you can use all of the features of Amazon SNS. However, you can send SMS messages only to verified destination phone numbers. For more information, including how to move out of the sandbox to send messages without restrictions, see SMS sandbox in the Amazon SNS Developer Guide.

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 133).

**OneTimePassword**

The OTP sent to the destination number from the CreateSMSSandboxPhoneNumber call.

- **Type:** String
- **Length Constraints:** Minimum length of 5. Maximum length of 8.
- **Pattern:** ^[0-9]+$
- **Required:** Yes

**PhoneNumber**

The destination phone number to verify.

- **Type:** String
- **Length Constraints:** Maximum length of 20.
- **Pattern:** ^\([0-9]{8,}\)|\[0-9]{0,9}$
- **Required:** Yes

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 135).

**AuthorizationError**

- Indicates that the user has been denied access to the requested resource.
- **HTTP Status Code:** 403

**InternalError**

- Indicates an internal service error.
- **HTTP Status Code:** 500

**InvalidParameter**

- Indicates that a request parameter does not comply with the associated constraints.
HTTP Status Code: 400

**ResourceNotFound**

Can't perform the action on the specified resource. Make sure that the resource exists.

HTTP Status Code: 404

**Throttled**

Indicates that the rate at which requests have been submitted for this action exceeds the limit for your Amazon Web Services account.

HTTP Status Code: 429

**Verification**

Indicates that the one-time password (OTP) used for verification is invalid.

HTTP Status Code: 400

---

**Examples**

The structure of `AUTHPARAMS` depends on the signature of the API request. For more information, see [Examples of the complete Signature Version 4 signing process (Python)](https://aws.amazon.com) in the [AWS General Reference](https://aws.amazon.com).

### Example

This example illustrates one usage of `VerifySMSSandboxPhoneNumber`.

**Sample Request**

```plaintext
https://sns.us-west-2.amazonaws.com/?Action=VerifySMSSandboxPhoneNumber
&PhoneNumber=%2B12065550100
&OneTimePassword=7973610
&Version=2010-03-31
&AUTHPARAMS
```

**Sample Response**

```xml
<VerifySMSSandboxPhoneNumberResponse xmlns="https://sns.amazonaws.com/doc/2010-03-31/">
  <VerifySMSSandboxPhoneNumberResult/>
  <ResponseMetadata>
    <RequestId>65e432d1-b1bf-5d5f-a962-6a2b5b4c5c94</RequestId>
  </ResponseMetadata>
</VerifySMSSandboxPhoneNumberResponse>
```

**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 V2
See Also

- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
Reference: API actions by category

Common actions

- Publish
- PublishBatch

Application-to-application (A2A) actions

- AddPermission
- ConfirmSubscription
- CreateTopic
- DeleteTopic
- GetSubscriptionAttributes
- GetTopicAttributes
- ListSubscriptions
- ListSubscriptionsByTopic
- ListTagsForResource
- ListTopics
- RemovePermission
- SetSubscriptionAttributes
- SetTopicAttributes
- Subscribe
- TagResource
- Unsubscribe
- UntagResource

Application-to-person (A2P) actions

Mobile text messaging (SMS)

- CheckIfPhoneNumberIsOptedOut
- CreateSMSSandboxPhoneNumber
- DeleteSMSSandboxPhoneNumber
- GetSMSAttributes
- GetSMSSandboxAccountStatus
- ListOrigininationNumbers
- ListPhoneNumbersOptedOut
- ListSMSSandboxPhoneNumbers
- OptInPhoneNumber
Mobile push notifications

- SetSMSAttributes
- VerifySMSSandboxPhoneNumber

Mobile push notifications

- CreatePlatformApplication
- CreatePlatformEndpoint
- DeleteEndpoint
- DeletePlatformApplication
- GetEndpointAttributes
- GetPlatformApplicationAttributes
- ListEndpointsByPlatformApplication
- ListPlatformApplications
- SetEndpointAttributes
- SetPlatformApplicationAttributes
Data Types

The Amazon Simple Notification Service 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:

- BatchResultErrorEntry (p. 119)
- Endpoint (p. 120)
- MessageAttributeValue (p. 121)
- PhoneNumberInformation (p. 122)
- PlatformApplication (p. 124)
- PublishBatchRequestEntry (p. 125)
- PublishBatchResultEntry (p. 128)
- SMSSandboxPhoneNumber (p. 129)
- Subscription (p. 130)
- Tag (p. 131)
- Topic (p. 132)
BatchResultErrorEntry

Gives a detailed description of failed messages in the batch.

Contents

Code

An error code representing why the action failed on this entry.
Type: String
Required: Yes

Id

The Id of an entry in a batch request
Type: String
Required: Yes

Message

A message explaining why the action failed on this entry.
Type: String
Required: No

SenderFault

Specifies whether the error happened due to the caller of the batch API action.
Type: Boolean
Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Endpoint

The endpoint for mobile app and device.

Contents

Attributes, Attributes.entry.N.key (key), Attributes.entry.N.value (value)

Attributes for endpoint.

Type: String to string map

Required: No

EndpointArn

The EndpointArn for mobile app and device.

Type: String

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
MessageAttributeValue

The user-specified message attribute value. For string data types, the value attribute has the same restrictions on the content as the message body. For more information, see Publish.

Name, type, and value must not be empty or null. In addition, the message body should not be empty or null. All parts of the message attribute, including name, type, and value, are included in the message size restriction, which is currently 256 KB (262,144 bytes). For more information, see Amazon SNS message attributes and Publishing to a mobile phone in the Amazon SNS Developer Guide.

Contents

BinaryValue

Binary type attributes can store any binary data, for example, compressed data, encrypted data, or images.

Type: Base64-encoded binary data object

Required: No

DataType

Amazon SNS supports the following logical data types: String, String.Array, Number, and Binary. For more information, see Message Attribute Data Types.

Type: String

Required: Yes

StringValue

Strings are Unicode with UTF8 binary encoding. For a list of code values, see ASCII Printable Characters.

Type: String

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
PhoneNumberInformation

A list of phone numbers and their metadata.

Contents

CreatedAt

The date and time when the phone number was created.

Type: Timestamp

Required: No

Iso2CountryCode

The two-character code for the country or region, in ISO 3166-1 alpha-2 format.

Type: String

Length Constraints: Maximum length of 2.

Pattern: ^[A-Za-z]{2}$

Required: No

NumberCapabilities.member.N

The capabilities of each phone number.

Type: Array of strings

Valid Values: SMS | MMS | VOICE

Required: No

PhoneNumber

The phone number.

Type: String

Required: No

RouteType

The list of supported routes.

Type: String

Valid Values: Transactional | Promotional | Premium

Required: No

Status

The status of the phone number.

Type: String

Required: No
See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
PlatformApplication

Platform application object.

Contents

Attributes, Attributes.entry.N.key (key), Attributes.entry.N.value (value)

Attributes for platform application object.

Type: String to string map

Required: No

PlatformApplicationArn

PlatformApplicationArn for platform application object.

Type: String

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
PublishBatchRequestEntry

Contains the details of a single Amazon SNS message along with an Id that identifies a message within the batch.

Contents

**Id**

An identifier for the message in this batch.

**Note**

The Ids of a batch request must be unique within a request. This identifier can have up to 80 characters. The following characters are accepted: alphanumeric characters, hyphens(-), and underscores(_).

Type: String

Required: Yes

**Message**

The body of the message.

Type: String

Required: Yes

**MessageAttributes**,

*MessageAttributes.entry.N.Name (key)*, *MessageAttributes.entry.N.Value (value)*

Each message attribute consists of a Name, Type, and Value. For more information, see Amazon SNS message attributes in the Amazon SNS Developer Guide.

Type: String to MessageAttributeValue (p. 121) object map

Required: No

**MessageDeduplicationId**

This parameter applies only to FIFO (first-in-first-out) topics.

The token used for deduplication of messages within a 5-minute minimum deduplication interval. If a message with a particular MessageDeduplicationId is sent successfully, subsequent messages with the same MessageDeduplicationId are accepted successfully but aren't delivered.

- Every message must have a unique MessageDeduplicationId.
- You may provide a MessageDeduplicationId explicitly.
- If you aren't able to provide a MessageDeduplicationId and you enable ContentBasedDeduplication for your topic, Amazon SNS uses a SHA-256 hash to generate the MessageDeduplicationId using the body of the message (but not the attributes of the message).
- If you don't provide a MessageDeduplicationId and the topic doesn't have ContentBasedDeduplication set, the action fails with an error.
- If the topic has a ContentBasedDeduplication set, your MessageDeduplicationId overrides the generated one.
- When ContentBasedDeduplication is in effect, messages with identical content sent within the deduplication interval are treated as duplicates and only one copy of the message is delivered.
- If you send one message with ContentBasedDeduplication enabled, and then another message with a MessageDeduplicationId that is the same as the one generated for the first
MessageDeduplicationId, the two messages are treated as duplicates and only one copy of the message is delivered.

**Note**
The MessageDeduplicationId is available to the consumer of the message (this can be useful for troubleshooting delivery issues). If a message is sent successfully but the acknowledgement is lost and the message is resent with the same MessageDeduplicationId after the deduplication interval, Amazon SNS can't detect duplicate messages. Amazon SNS continues to keep track of the message deduplication ID even after the message is received and deleted.

The length of MessageDeduplicationId is 128 characters.

MessageDeduplicationId can contain alphanumeric characters (a-z, A-Z, 0-9) and punctuation (!"#$%&'()*+,-./:;<=>?@[\]^_`{|}~).

Type: String
Required: No

**MessageGroupId**
This parameter applies only to FIFO (first-in-first-out) topics.
The tag that specifies that a message belongs to a specific message group. Messages that belong to the same message group are processed in a FIFO manner (however, messages in different message groups might be processed out of order). To interleave multiple ordered streams within a single topic, use MessageGroupId values (for example, session data for multiple users). In this scenario, multiple consumers can process the topic, but the session data of each user is processed in a FIFO fashion.

You must associate a non-empty MessageGroupId with a message. If you don't provide a MessageGroupId, the action fails.

The length of MessageGroupId is 128 characters.

MessageGroupId can contain alphanumeric characters (a-z, A-Z, 0-9) and punctuation (!"#$%&'()*+,-./:;<=>?@[\]^_`{|}~).

**Important**
MessageGroupId is required for FIFO topics. You can't use it for standard topics.

Type: String
Required: No

**MessageStructure**
Set MessageStructure to json if you want to send a different message for each protocol. For example, using one publish action, you can send a short message to your SMS subscribers and a longer message to your email subscribers. If you set MessageStructure to json, the value of the Message parameter must:
- be a syntactically valid JSON object; and
- contain at least a top-level JSON key of "default" with a value that is a string.

You can define other top-level keys that define the message you want to send to a specific transport protocol (e.g. http).

Type: String
Required: No
Subject

The subject of the batch message.

Type: String

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
PublishBatchResultEntry

Encloses data related to a successful message in a batch request for topic.

Contents

Id

The Id of an entry in a batch request.

Type: String

Required: No

MessageId

An identifier for the message.

Type: String

Required: No

SequenceNumber

This parameter applies only to FIFO (first-in-first-out) topics.

The large, non-consecutive number that Amazon SNS assigns to each message.

The length of SequenceNumber is 128 bits. SequenceNumber continues to increase for a particular MessageGroupId.

Type: String

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
A verified or pending destination phone number in the SMS sandbox.

When you start using Amazon SNS to send SMS messages, your AWS account is in the **SMS sandbox**. The SMS sandbox provides a safe environment for you to try Amazon SNS features without risking your reputation as an SMS sender. While your AWS account is in the SMS sandbox, you can use all of the features of Amazon SNS. However, you can send SMS messages only to verified destination phone numbers. For more information, including how to move out of the sandbox to send messages without restrictions, see **SMS sandbox in the Amazon SNS Developer Guide**.

### Contents

#### PhoneNumber

The destination phone number.

- **Type**: String
- **Length Constraints**: Maximum length of 20.
- **Pattern**: `^\+\([0-9]{8,}\|[0-9]{0,9}\)$`
- **Required**: No

#### Status

The destination phone number's verification status.

- **Type**: String
- **Valid Values**: Pending | Verified
- **Required**: No

### See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Subscription

A wrapper type for the attributes of an Amazon SNS subscription.

Contents

Endpoint
The subscription's endpoint (format depends on the protocol).
Type: String
Required: No

Owner
The subscription's owner.
Type: String
Required: No

Protocol
The subscription's protocol.
Type: String
Required: No

SubscriptionArn
The subscription's ARN.
Type: String
Required: No

TopicArn
The ARN of the subscription's topic.
Type: String
Required: No

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Tag

The list of tags to be added to the specified topic.

Contents

Key

The required key portion of the tag.

Type: String


Required: Yes

Value

The optional value portion of the tag.

Type: String

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

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Topic

A wrapper type for the topic's Amazon Resource Name (ARN). To retrieve a topic's attributes, use GetTopicAttributes.

Contents

**TopicArn**

- The topic's ARN.
- Type: String
- Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see 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

NotAuthorized
You do not have permission to perform this action.
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