
Amazon Simple Notification Service

CLI Reference

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Amazon Web Services

Amazon Simple Notification Service: CLI Reference

Amazon Web Services

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Welcome

This guide provides reference information for the Amazon Simple Notification Service (Amazon SNS) command line interface tool. The Amazon SNS command line interface tool allows you to make requests to the service using commands you enter on a terminal or command prompt.

Amazon SNS is a web service that makes it easy to set up, operate, and send notifications from the cloud. You can also manage permissions and subscriptions to notification topics.

To download the command line interface tool, go to [Amazon Simple Notification Service Command Line Interface Tool](#).

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Command Line Interface Actions

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sns-add-permission

Description

Adds a simple `allow` statement to the topic's access control policy, granting the specific users access to the specified service operations.

Syntax

```
sns-add-permission TopicArn
  --aws-account-id value[,value...]
  --action-name value[,value...]
```

```
--label value  
[General Options]
```

Options

Name	Description	Required
<i>TopicArn</i>	Topic ARN that the statement will be added to.	Yes
<i>--aws-account-id</i>	AWS Account IDs of the users to whom the statement should apply.	Yes
<i>--action-name</i>	SNS actions to which the users should be granted access. Valid values: <code>Publish</code> <code>Subscribe</code> <code>Receive</code>	Yes
<i>--label</i>	Short, unique label for the new policy statement.	Yes

Output

Returns a message stating that the request succeeded.

Example

This example grants permission to AWS Account ID 1111-2222-3333 to publish to topic ARN `arn:aws:sns:us-east-1:365928882516:Foo`.

```
sns-add-permission arn:aws:sns:us-east-1:365928882516:Foo --label FooPublish -  
-action-name  
Publish --aws-account-id 111122223333
```

sns-confirm-subscription

Description

Confirms the subscription of an endpoint to a topic, using the token sent to that endpoint. Once the subscription has been confirmed, each message published to the topic is delivered to the endpoint.

Syntax

```
sns-confirm-subscription TopicArn  
--token value  
[--authenticate-on-unsubscribe ]  
[General Options]
```

Options

Name	Description	Required
<i>TopicArn</i>	The ARN of the topic for which the endpoint's subscription should be confirmed.	Yes
<i>--token</i>	The confirmation token sent to the endpoint. Tokens are only valid for two hours after issue.	Yes
<i>--authenticate-on-unsubscribe</i>	If the value of this optional parameter is <code>true</code> and the requester's AWS Account ID is the same as the subscriber's, only the topic owner and subscription owner can unsubscribe from the subscription.	No

Output

Returns the subscription ARN.

Example

Example Request

This example confirms a subscription for topic ARN `arn:aws:sns:us-east-1:295079676684:Foo` with token `51b2ff3edb475b7d91550e0ab6edf`.

```
sns-confirm-subscription --topic-arn arn:aws:sns:us-east-1:295079676684:Foo
--authenticate-on-unsubscribe --token 51b2ff3edb475b7d91550e0ab6edf
```

Example Response

```
arn:aws:sns:us-east-1:295079676684:Foo:c52d81ff-1d86-4dd6-b446-99547b0bdad5
```

sns-create-topic

Description

Creates a topic to which notifications can be published.

Syntax

```
sns-create-topic Name
    [General Options]
```


Options

Name	Description	Required
<i>Name</i>	Name of the topic to create.	Yes

Output

Returns the Topic ARN.

Examples

Example Request

This example creates a topic named Foo.

```
$PROMPT> sns-create-topic Foo
```

Example Response

This is an example of the output for this command.

```
TOPIC ARN  
arn:aws:sns:us-east-1:365928882516:Foo
```

sns-delete-topic

Description

Deletes a topic and all its subscriptions.

Syntax

```
sns-delete-topic TopicArn  
  [--force value]  
  [General Options]
```

Options

Name	Description	Required
<i>TopicArn</i>	The ARN of the topic to delete.	Yes
<i>-f</i> , <i>--force</i>	Delete a topic without being prompted for confirmation.	No

Example

This example deletes a topic with ARN `arn:aws:sns:us-east-1:365928882516:Foo`.

```
$PROMPT> sns-delete-topic arn:aws:sns:us-east-1:365928882516:Foo
```

sns-get-subscription-attributes

Description

Returns all the attributes of a subscription.

Syntax

```
sns-get-subscription-attributes SubscriptionArn  
[General Options]
```

Options

Name	Description	Required
<i>SubscriptionArn</i>	The ARN of the subscription whose attributes you want to return.	Yes

Output

Returns the following information:

- Topic owner
- Whether the subscription was confirmed
- Topic ARN
- DeliveryPolicy
- Subscription ARN

Examples

Example Request

This example returns a list of attributes from a subscription with ARN `arn:aws:sns:us-east-1:123456789012:MyTopic:b3a77e54-00fb-460b-8fe8-5100a30a2d9d`

```
$PROMPT> sns-get-subscription-attributes arn:aws:sns:us-east-  
1:123456789012:MyTopic:b3a77e54-00fb-460b-8fe8-5100a30a2d9d
```

Example Response

```
Owner 123456789012
ConfirmationWasAuthenticated true
TopicArn us-east-1/123456789012/MyTopic
SubscriptionArn arn:aws:sns:us-east-1:123456789012:MyTopic:b3a77e54-00fb-460b-8fe8-5100a30a2d9d
```

sns-get-topic-attributes

Description

Returns all the attributes of a topic.

Syntax

```
sns-get-topic-attributes TopicArn
    [General Options]
```

Options

Name	Description	Required
<i>TopicArn</i>	The ARN of the topic whose attributes you want to return.	Yes

Output

Returns the following information:

- topic owner
- number of pending subscriptions
- topic policy
- number of confirmed subscriptions
- number of deleted subscriptions
- topic ARN

Examples

Example Request

This example returns a list of attributes from a topic with ARN `arn:aws:sns:us-east-1:365928882516:Foo`.

```
$PROMPT> sns-get-topic-attributes arn:aws:sns:us-east-1:365928882516:Foo
```

Example Response

```
Owner                054794666394
SubscriptionsPending 0
Policy               {"Version":"2008-10-17","Id":"__default_policy_ID",
"Statement":[{"Sid":"__default_statement_ID","Effect":"Allow","Principal":{"AWS":"*"},"Action":["SNS:Publish","SNS:RemovePermission","SNS:SetTopicAttributes","SNS>DeleteTopic","SNS:ListSubscriptionsByTopic","SNS:GetTopicAttributes","SNS:Receive","SNS:AddPermission","SNS:Subscribe"],"Resource":"arn:aws:sns:us-east-1:054794666394:Foo","Condition":{"StringEquals":{"AWS:SourceOwner":"054794666394"}}}]}
SubscriptionsConfirmed 2
SubscriptionsDeleted 0
TopicArn             arn:aws:sns:us-east-1:054794666394:Foo
```

sns-list-subscriptions

Description

Returns a list of subscription ARNs.

Syntax

```
sns-list-subscriptions
    [General Options]
```

Options

None

Output

Returns a table that contains the following:

- Subscription ARN
- Topic ARN (only with the `--show-long` option)
- Subscription owner (only with the `--show-long` option)
- Delivery protocol
- Notification endpoint

Examples

Example Request

This example returns a list of subscription ARNs.

```
$PROMPT> sns-list-subscriptions
```

Example Response

```
arn:aws:sns:us-east-1:365928882516:Foo:02034b43-fefa-4e07-a5eb-3be56f8c54ce
http      http://www.example.com:8080
arn:aws:sns:us-east-1:365928882516:Bar:cb0ede88-45aa-4246-933d-5cc1434ff83b
http      http://www.example.com:8080
```

sns-list-subscriptions-by-topic

Description

Returns a list of subscription ARNs specific to a topic.

Syntax

```
sns-list-subscriptions-by-topic TopicArn
    [General Options]
```

Options

Name	Description	Required
<i>TopicArn</i>	The ARN of the topic whose subscriptions you want to return.	Yes

Output

Returns a table that contains the following:

- Subscription ARN
- Topic ARN (only with the `--show-long` option)
- Subscription owner (only with the `--show-long` option)
- Delivery protocol
- Notification endpoint

Examples

Example Request

This example returns a list of subscription ARNs from a topic with ARN `arn:aws:sns:us-east-1:365928882516:Foo`.

```
$PROMPT> sns-list-subscriptions-by-topic arn:aws:sns:us-east-1:365928882516:Foo
```

Example Response

This is an example of the output for this command.

```
SUBSCRIPTION ARN                                PROTOCOL
ENDPOINT
arn:aws:sns:us-east-1:365928882516:Foo:02034b43-fefa-4e07-a5eb-3be56f8c54ce
http      http://www.example.com:8080
arn:aws:sns:us-east-1:365928882516:Foo:cb0ede88-45bb-4246-933d-5cc1434ea83b
http      http://www.example.com:8080
```

sns-list-topics

Description

Returns a list of topic ARNs you own.

Syntax

```
sns-list-topics
    [General Options]
```

Options

None

Output

This command returns each topic ARN that you own.

Examples

Example Request

```
$PROMPT> sns-list-topics
```

Example Output

```
arn:aws:sns:us-east-1:365928882516:Foo
arn:aws:sns:us-east-1:365928882516:Bar
```

sns-publish

Description

Sends a message to all endpoints that are subscribed to the topic.

Syntax

```
sns-publish TopicArn
  --message value
  [--subject value]
  [General Options]
```

Options

Name	Description	Required
<i>TopicArn</i>	The ARN of the topic you want to publish to.	Yes
<i>Message</i>	The text of the message, which must be UTF-8 compatible text and at most 4096 bytes long.	Yes
<i>Subject</i>	Optional parameter for the subject line in email notifications.	No

Output

This command returns a message identifier.

Examples

Example Request

This example sends the message "Hello, world!" to topic ARN `arn:aws:sns:us-east-1:365928882516:Foo`.

```
$PROMPT> sns-publish arn:aws:sns:us-east-1:365928882516:Foo --message "Hello, world!"
```

Example Response

```
MESSAGE ID
5c0919e1-cd47-4389-871a-8037f5f39efe
```

sns-remove-permission

Description

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

Syntax

```
sns-remove-permission TopicArn
  --label value
  [General Options]
```

Options

Name	Description	Required
<i>TopicArn</i>	The ARN of the topic to be modified.	Yes
<i>--label</i>	The unique statement ID of the access control policy statement to be removed.	Yes

Output

Returns a message stating that the request succeeded.

Example

This example removes permissions associated with label fooPublish from topic ARN arn:aws:sns:us-east-1:365928882516:Foo.

```
$PROMPT> sns-remove-permission arn:aws:sns:us-east-1:365928882516:Foo --label
fooPublish
```

sns-set-subscription-attributes

Description

Sets a new value on an attribute of a subscription.

Syntax

```
sns-set-subscription-attributes SubscriptionArn --attribute-name value [--
attribute-value value ]
  [General Options]
```


Options

Name	Description	Required
<i>SubscriptionArn</i>	The ARN of the subscription whose attributes you want to return.	Yes
<i>attribute-name</i>	The name of the subscription attribute to modify. Currently, you can specify only DeliveryPolicy.	Yes
<i>attribute-value</i>	The new value for the subscription attribute. For DeliveryPolicy, this is a delivery policy in JSON format.	Yes

Output

Returns a message stating that the attribute was set.

Examples

Example Request

This example sets the `DeliveryPolicy` attribute to the delivery policy `{"healthyRetryPolicy":{"numRetries":5}}` for a subscription with ARN `arn:aws:sns:us-east-1:123456789012:MyTopic:b3a77e54-00fb-460b-8fe8-5100a30a2d9d`.

```
$PROMPT> sns-set-subscription-attributes arn:aws:sns:us-east-1:123456789012:MyTopic:b3a77e54-00fb-460b-8fe8-5100a30a2d9d --attribute-name DeliveryPolicy --attribute-value {"healthyRetryPolicy":{"numRetries":5}}
```

Example Response

```
Attribute set.
```

sns-set-topic-attributes

Description

Sets a new value on an attribute of a topic.

Syntax

```
sns-set-topic-attributes TopicArn
--attribute-name value [--attribute-value value ]
[General Options]
```

Options

Name	Description	Required
<i>TopicArn</i>	The ARN of the topic to be modified.	Yes
<i>AttributeName</i>	The name of the topic attribute to be modified. Valid values: <code>Policy</code> <code>DisplayName</code>	Yes
<i>AttributeValue</i>	The new value for the topic attribute.	Yes

Output

Returns a message stating that the attribute was set.

Examples

Example Request

This example gives the `DisplayName` attribute the value of `Foo` for a topic with ARN `arn:aws:sns:us-east-1:365928882516:Foo`.

```
$PROMPT> sns-set-topic-attributes arn:aws:sns:us-east-1:365928882516:Foo  
--attribute-name DisplayName --attribute-value Foo
```

Example Response

```
Attribute set.
```

sns-subscribe

Description

Subscribes an endpoint to a topic. If the chosen transport protocol requires confirmation, a message with a confirmation token is sent to the endpoint.

Syntax

```
sns-subscribe TopicArn  
  --endpoint value  
  --protocol value  
  [General Options]
```

Options

Name	Description	Required
<i>TopicArn</i>	The ARN of the topic to which the endpoint should be subscribed.	Yes
<i>--protocol</i>	The protocol by which notifications should be delivered. Supported protocols include <code>http</code> , <code>https</code> , <code>email</code> , <code>email-json</code> , and <code>sqs</code> .	Yes
<i>--endpoint</i>	The endpoint to which notifications should be delivered. Endpoints vary by protocols and can be URLs, email addresses, or the Amazon Resource Name (ARN) of SQS queues.	Yes

Output

Returns a message indicating request was received.

Examples

Example Request

This example subscribes to topic ARN `arn:aws:sns:us-east-1:365928882516:Foo`, with an `http` protocol and an endpoint at `http://www.example.com:8080`.

```
$PROMPT> sns-subscribe arn:aws:sns:us-east-1:365928882516:Foo --protocol http  
--endpoint http://www.example.com:8080
```

Example Response

```
Subscription request received.
```

sns-unsubscribe

Description

Deletes a subscription from a topic. Unsubscribing can result in a confirmation message to the subscription's endpoint.

Syntax

```
sns-unsubscribe SubscriptionArn  
[General Options]
```

Options

Name	Description	Required
<i>SubscriptionArn</i>	The ARN of the subscription to delete.	Yes

Output

Returns a message stating that the request succeeded.

Example

This example unsubscribes from subscription ARN
arn:aws:sns:us-east-1:365928882516:Foo:02034b43-fefa-4e07-a5eb-3be56f8c54ce.

```
$PROMPT> sns-unsubscribe arn:aws:sns:us-east-1:365928882516:Foo:02034b43-fefa-4e07-a5eb-3be56f8c54ce
```

General Options

Most commands described in this guide accept the set of optional parameters described in the following table.

Name	Description
<code>--aws-credential-file</code>	Location of the file with your AWS credentials.
<code>-I, --access-key-id</code>	The Access Key ID you want to use.
<code>-S, --secret-key</code>	The Secret Access Key associated with the Access Key ID you are using.
<code>--connection-timeout</code>	The connection timeout in seconds.
<code>--show-table, --show-long, --show-xml, --quiet</code>	<p>Specifies how the results are displayed:</p> <ul style="list-style-type: none"> tabular (<code>--show-table</code>) shows a subset of the data in fixed column-width form delimited (<code>--show-long</code>) shows all of the returned values delimited by a character xml (<code>--show-xml</code>) shows the raw return from the service no output (<code>--quiet</code>) suppresses all standard output <p>Default: <code>--show-table</code></p>
<code>-H, --headers</code>	If you are displaying tabular or delimited results, it includes the column headers. If you are showing XML results, it returns the HTTP headers from the service request, as applicable. This is disabled by default.
<code>--delimiter</code>	Defines the delimiter to use when displaying delimited (long) results.
<code>--show-empty-fields</code>	Shows empty fields and rows, using a "(nil)" value. The default is to not show empty fields or columns.
<code>--region</code>	Specifies the region value as the web service region to use.

Name	Description
<i>-U, --url</i>	This option overrides the URL for the service call with the value you provide.
<i>--show-request</i>	Displays the URL the CLI used to call Amazon SNS.
<i>SSLEncryptionOnly</i>	If set, it enables support for self-signed certificates. Important: this option is not secure.
<i>DebugMode</i>	Turns on debug mode to display more verbose output.