

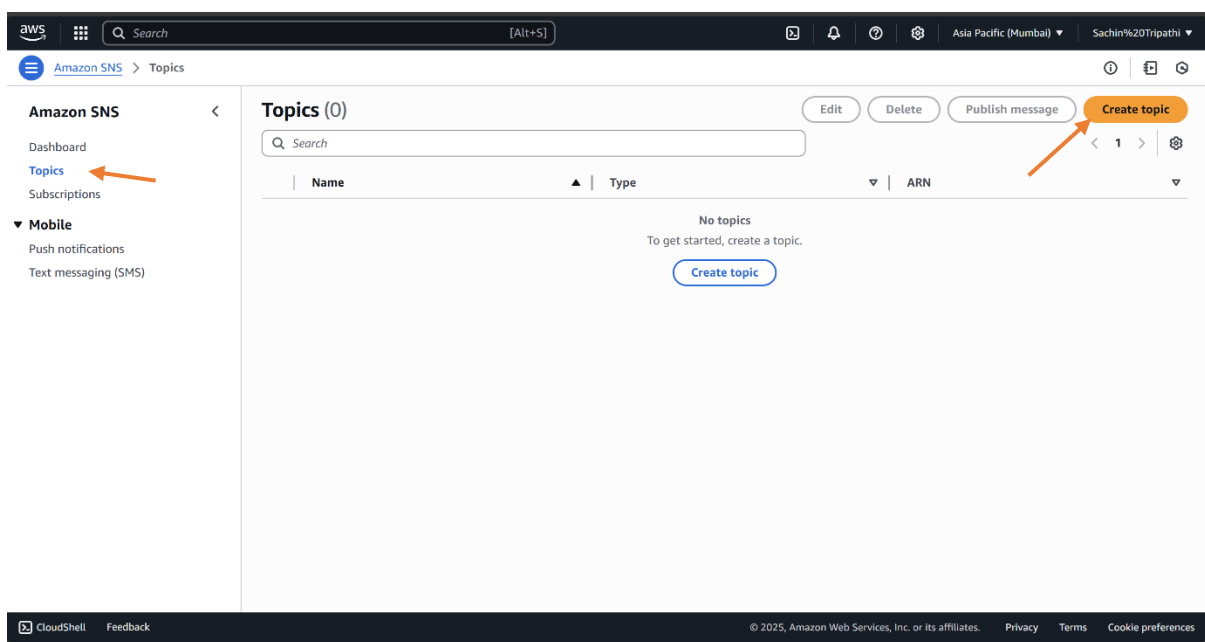
Simple Notification Service(SNS)

Amazon SNS (Simple Notification Service) is a fully managed messaging service that allows you to send notifications to multiple users or systems at once. It works on a publish-subscribe model, where a message is sent to a topic, and all subscribers of that topic receive the message. You can send messages via SMS, email, mobile push, or to other AWS services like SQS and Lambda. SNS is scalable, reliable, and fast, making it ideal for alerts, system updates, or automated messages in AWS applications.

How to create Topic:-

Step1:-

- Goto Search bar. Search SNS. Click on SNS.
- Click on “Topic”(left side).
- Click on “create topic”.



Step2:-

- In “Type” , Select “Standard”.(for mail, sms etc).

Create topic

Details

Type [Info](#)
Topic type cannot be modified after topic is created

☐ FIFO (first-in, first-out)

- Strictly-preserved message ordering
- Exactly-once message delivery
- Subscription protocols: SQS

☒ Standard

- Best-effort message ordering
- At-least once message delivery
- Subscription protocols: SQS, Lambda, Data Firehose, HTTP, SMS, email, mobile application endpoints

Name

MyTopic

Maximum 256 characters. Can include alphanumeric characters, hyphens (-) and underscores (_).

Display name - optional [Info](#)
To use this topic with SMS subscriptions, enter a display name. Only the first 10 characters are displayed in an SMS message.

My Topic

Maximum 100 characters.

► **Encryption - optional**
Amazon SNS provides in-transit encryption by default. Enabling server-side encryption adds at-rest encryption to your topic.

- Write the “Name” of topic.

Name

topic1

Maximum 256 characters. Can include alphanumeric characters, hyphens (-) and underscores (_).

- Click on “Create topic”.

► **Data protection policy - optional** [info](#)
This policy defines which sensitive data to monitor and to prevent from being exchanged via your topic.

► **Delivery policy (HTTP/S) - optional** [Info](#)
The policy defines how Amazon SNS retries failed deliveries to HTTP/S endpoints. To modify the default settings, expand this section.

► **Delivery status logging - optional** [Info](#)
These settings configure the logging of message delivery status to CloudWatch Logs.

► **Tags - optional**
A tag is a metadata label that you can assign to an Amazon SNS topic. Each tag consists of a key and an optional value. You can use tags to search and filter your topics and track your costs. [Learn more](#)

► **Active tracing - optional** [Info](#)
Use AWS X-Ray active tracing for this topic to view its traces and service map in Amazon CloudWatch. Additional costs apply.

[Cancel](#) [Create topic](#)

- Topic is created.

✔ Topic topic1 created successfully.
You can create subscriptions and send messages to them from this topic. [Publish message](#) ✕

topic1 [Edit](#) [Delete](#) [Publish message](#)

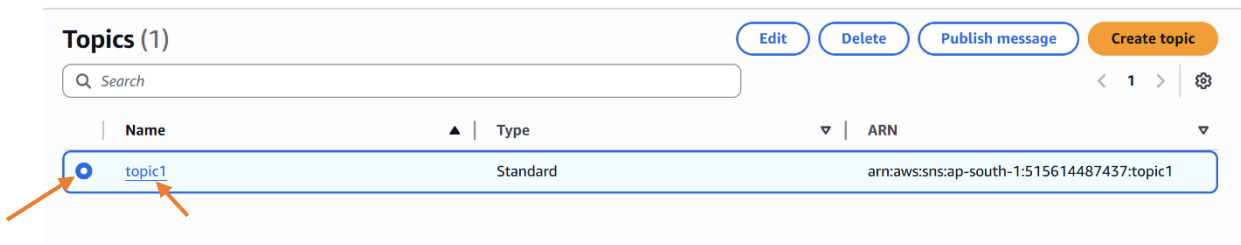
Details

Name topic1	Display name -
ARN arn:aws:sns:ap-south-1:515614487437:topic1	Topic owner 515614487437
Type Standard	

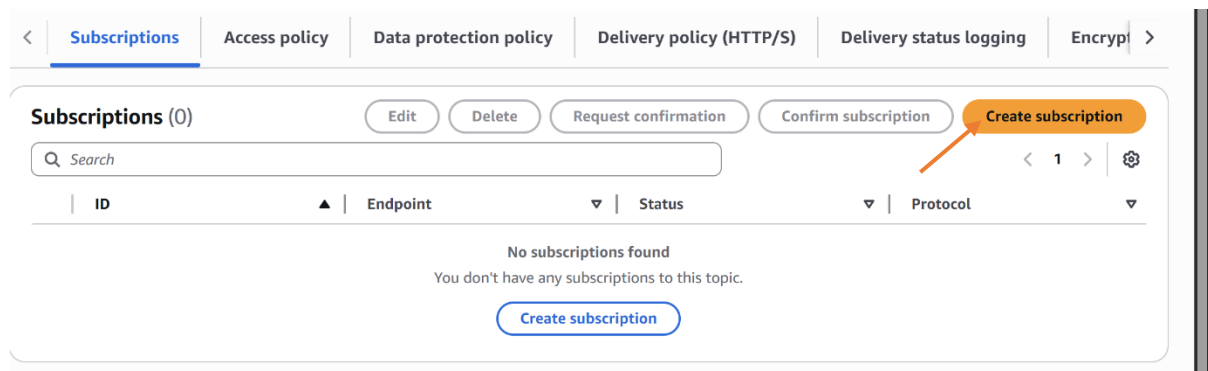
How to Create subscription “Email” and publish message:-

Step3:-

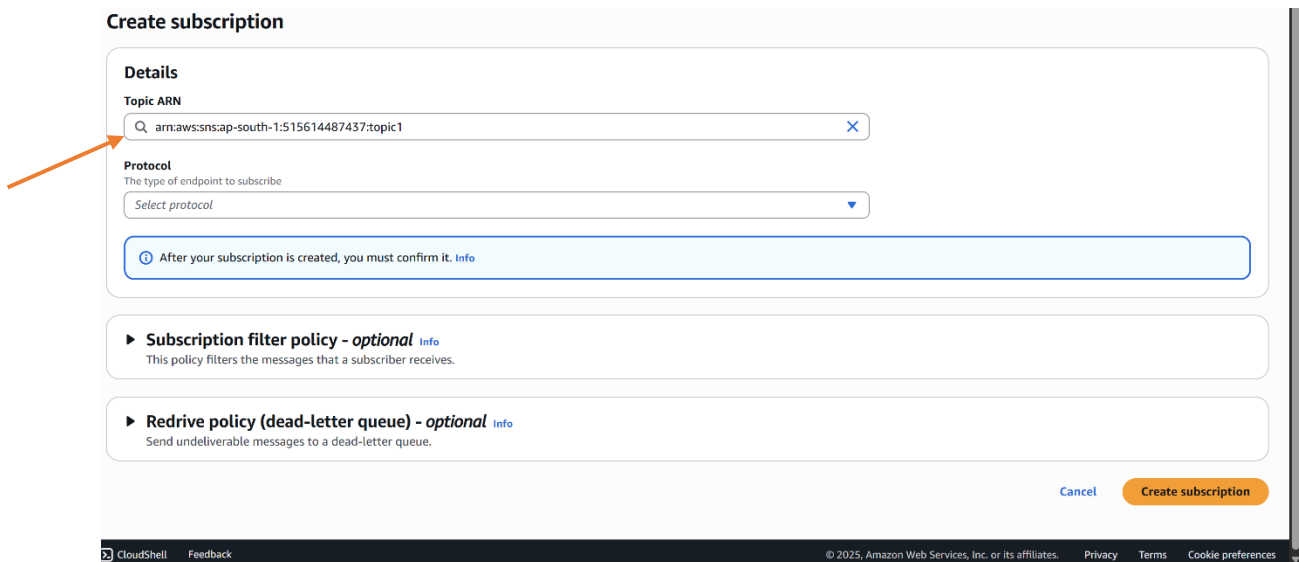
- Select the “Topic” and click on the topic name. Ex:- topic1.



- Click on the “Create subscription”.



- Select the “Topic ARN”.



Step4:-

- Click on "Protocol" and select "Email".

Protocol

The type of endpoint to subscribe

Select protocol

Amazon Kinesis Data Firehose
Amazon SQS
AWS Lambda
Email
Email-JSON
HTTP
HTTPS
Platform application endpoint
SMS

- Click on "Create Subscription".

Subscription filter policy - optional [Info](#)

This policy filters the messages that a subscriber receives.

Redrive policy (dead-letter queue) - optional [Info](#)

Send undeliverable messages to a dead-letter queue.

[Cancel](#)

Create subscription

- Subscription is created.

Subscription to topic1 created successfully.

The ARN of the subscription is arn:aws:sns:ap-south-1:515614487437:topic1:79375a99-8c72-49ef-b17e-9964d7e80a03.

Subscription: 79375a99-8c72-49ef-b17e-9964d7e80a03

[Edit](#)

[Delete](#)

Details

ARN

arn:aws:sns:ap-south-1:515614487437:topic1:79375a99-8c72-49ef-b17e-9964d7e80a03

Endpoint

sachintri.7890@gmail.com

Topic

[topic1](#)

Subscription Principal

arn:aws:iam::515614487437:root

Status

⌚ Pending confirmation

Protocol

EMAIL



- A screenshot of an email from AWS Notifications. The subject is "AWS Notification - Subscription Confirmation" with an "Inbox x" tag. The sender is "AWS Notifications <no-reply@sns.amazonaws.com>" and it was received "10:19 PM (46 minutes ago)". The email body states: "You have chosen to subscribe to the topic: **arn:aws:sns:ap-south-1:515614487437:topic1**". It then says: "To confirm this subscription, click or visit the link below (If this was in error no action is necessary):" followed by a blue link "Confirm subscription". At the bottom, it says: "Please do not reply directly to this email. If you wish to remove yourself from receiving all future SNS subscription confirmation requests please send an email to [sns-opt-out](#)". An orange arrow points to the "Confirm subscription" link.

- A screenshot of an email from Amazon SNS. The header shows navigation icons (back, forward, share, etc.) and the title "Subscription confirm" with the URL "sns.ap-south-1.amazonaws.com". The AWS logo is in the top left. The main content area, titled "Simple Notification Service", contains a green box with the text: "Subscription confirmed! You have successfully subscribed. Your subscription id is: arn:aws:sns:ap-south-1:513514407637:topic1:79375a99-8c72-49ef-b17e-996487e07a03. If it was not your intention to subscribe, [click here to unsubscribe](#)."

- The screenshot shows the AWS IAM console interface for SNS topics. At the top, there's a header 'Topics (1)' with buttons for 'Edit', 'Delete', 'Publish message', and 'Create topic'. Below this is a search bar. A table lists the topics, with columns for 'Name', 'Type', and 'ARN'. The first entry, 'topic1', is highlighted with a blue border and an orange arrow pointing to its selection icon. Another orange arrow points to the 'Publish message' button.

Name	Type	ARN
topic1	Standard	arn:aws:sns:ap-south-1:515614487437:topic1

- “Subject” is optional .

Publish message to topic

Message details

Topic ARN

arn:aws:sns:ap-south-1:515614487437:topic1

Subject - optional

Enter message subject

Maximum 100 printable ASCII characters

Time to Live (TTL) - optional [Info](#)

This setting applies only to mobile application endpoints. The number of seconds that the push notification service has to deliver the message to the endpoint.

- In “Message body to send to the endpoint” write message.

Message body to send to the endpoint

1 Hi, My name is Sachin tripathi

- Click on “Publish message”.

Message attributes [Info](#)

Message attributes let you provide structured metadata items (such as timestamps, geospatial data, signatures, and identifiers) for the message.

Type

Select attribute type ▼

Name

Enter attribute name

Value

value or ["value1", "value2"]

Remove

Add another attribute

Cancel

Publish message

- Message is Published.

✓ Message published to topic topic1 successfully.
 Message "ID": 2c91f027-6546-5b02-89d9-90d318bd66e7
 Request "ID": 97d6739c-5181-5355-9399-13682c7bfeb0

topic1 Edit Delete Publish message

Details

Name topic1	Display name -
ARN arn:aws:sns:ap-south-1:515614487437:topic1	Topic owner 515614487437
Type Standard	

< **Subscriptions** Access policy Data protection policy Delivery policy (HTTP/S) Delivery status logging Encrypt >

Subscriptions (1) Edit Delete Request confirmation Confirm subscription Create subscription

Search

ID	Endpoint	Status	Protocol
Deleted	sachintri.7890@gmail.com	Confirmed	EMAIL

Step6:-

- Goto the mail and check mail is recieved.

Email Inbox x Print Share

AWS Notifications <no-reply@sns.amazonaws.com> 10:23 PM (48 minutes ago) ☆ 😊 ↶ ⋮
 to me

Hi, my name is Sachin Tripathi

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If you wish to stop receiving notifications from this topic, please click or visit the link below to unsubscribe:
<https://sns.ap-south-1.amazonaws.com/unsubscribe.html?SubscriptionArn=arn:aws:sns:ap-south-1:515614487437:topic1:79375a99-8c72-49ef-b17e-9964d7e80a03&Endpoint=sachintri.7890@gmail.com>

Please do not reply directly to this email. If you have any questions or comments regarding this email, please contact us at <https://aws.amazon.com/support>

↶ Reply ↷ Forward 😊

How to Create subscription “SMS” and publish message:-

Step7:-

- Goto the subscription.
- Select “Standard”.

Type | Info

Topic type cannot be modified after topic is created

☐ FIFO (first-in, first-out)

- Strictly-preserved message ordering
- Exactly-once message delivery
- Subscription protocols: SQS

☒ Standard

- Best-effort message ordering
- At-least once message delivery
- Subscription protocols: SQS, Lambda, Data Firehose, HTTP, SMS, email, mobile application endpoints

- In “Protocol” select “SMS”.

Protocol

The type of endpoint to subscribe

Select protocol

Amazon Kinesis Data Firehose

Amazon SQS

AWS Lambda

Email

Email-JSON

HTTP

HTTPS

Platform application endpoint

SMS

- Click on “Add Phone Number”.

Protocol

The type of endpoint to subscribe

SMS

Endpoint

A mobile number that can receive notifications from Amazon SNS.

+1 999 999 9999

Sandbox destination phone numbers

When in the sandbox, you can only deliver SMS to the sandbox destination phone numbers you have verified. [Learn more](#)

Add phone number

- Enter the “Phone Number”.

Phone number

+91 70071-77808

The phone number can have up to 20 digits, with a leading '+' and no spaces or hyphens (-).

- Select “Verification message language”.

Verification message language

English (United States)

English (United States)

English (United Kingdom)

German (Germany)

Spanish (Latin America)

Spanish (Spain)

French (Canada)

French (France)

Italian (Italy)

Japanese (Japan)

Korean (Korea)

Portuguese (Brazil)

- Click on “Add phone number”

Destination details

Phone number

+91 70071-77808

The phone number can have up to 20 digits, with a leading '+' and no spaces or hyphens (-).

Verification message language

English (United States)

The language the verification message will be sent in.

Cancel

Add phone number

- Enter the “verification code” received from the aws.
- Click on “Verify phone number”.

Details

Phone number

+917007177808

The phone number can have up to 20 digits, with a leading '+' and no spaces or hyphens (-).

Verification code

123321

Enter a string of 5-8 digits.

Cancel

Resend verification code

Verify phone number

Step8:-

- Click on “Create subscription”.

Protocol
The type of endpoint to subscribe

SMS

Endpoint
A mobile number that can receive notifications from Amazon SNS.

Q +917007177808 X

Sandbox destination phone numbers
When in the sandbox, you can only deliver SMS to the sandbox destination phone numbers you have verified. [Learn more](#)

Add phone number

Subscription filter policy - optional [Info](#)
This policy filters the messages that a subscriber receives.

Redrive policy (dead-letter queue) - optional [Info](#)
Send undeliverable messages to a dead-letter queue.

Cancel Create subscription

- Subscription is created.

✓ Subscription to topic1 created successfully.
The ARN of the subscription is arn:aws:sns:ap-south-1:515614487437:topic1:4241e362-08c5-4578-8d9a-fb04a345a2e4.

Subscription: 4241e362-08c5-4578-8d9a-fb04a345a2e4 Edit Delete

Details

<p>ARN arn:aws:sns:ap-south-1:515614487437:topic1:4241e362-08c5-4578-8d9a-fb04a345a2e4</p> <p>Endpoint +917007177808</p> <p>Topic topic1</p> <p>Subscription Principal arn:aws:iam::515614487437:root</p>	<p>Status ✓ Confirmed</p> <p>Protocol SMS</p>
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< Subscriptions Access policy Data protection policy Delivery policy (HTTP/S) Delivery status logging Encryption >

Subscriptions (1) Edit Delete Request confirmation Confirm subscription Create subscription

Q Search < 1 > ⚙

ID	Endpoint	Status	Protocol
4241e362-08c5-4578-8d9a-fb...	+917007177808	✓ Confirmed	SMS

Step9:-

- Select the "topic" and click on "publish message".

Topics (1) Edit Delete Publish message Create topic

Q Search < 1 > ⚙

Name	Type	ARN
topic1	Standard	arn:aws:sns:ap-south-1:515614487437:topic1

- “subject” is optional.

Publish message to topic

Message details

Topic ARN

arn:aws:sns:ap-south-1:515614487437:topic1

Subject - optional

Message

Maximum 100 printable ASCII characters

Time to Live (TTL) - optional [Info](#)

This setting applies only to mobile application endpoints. The number of seconds that the push notification service has to deliver the message to the endpoint.

- Write the message in “message body to send to the endpoint”.

Message body to send to the endpoint

1 Hi, my name is Sachin Triapthi

- Click on “Publish message”.

Message attributes [Info](#)

Message attributes let you provide structured metadata items (such as timestamps, geospatial data, signatures, and identifiers) for the message.

Type

Select attribute type

Name

Enter attribute name

Value

value or ["value1", "value2"]

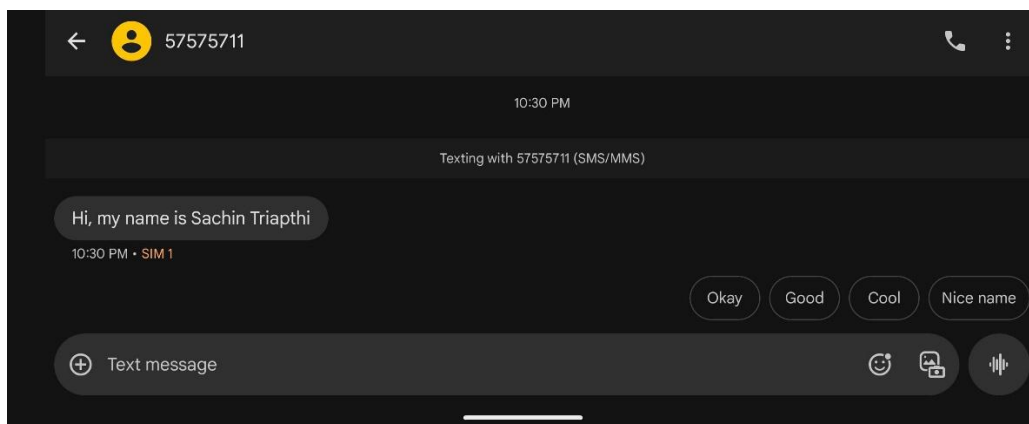
Remove

Add another attribute

Cancel

Publish message

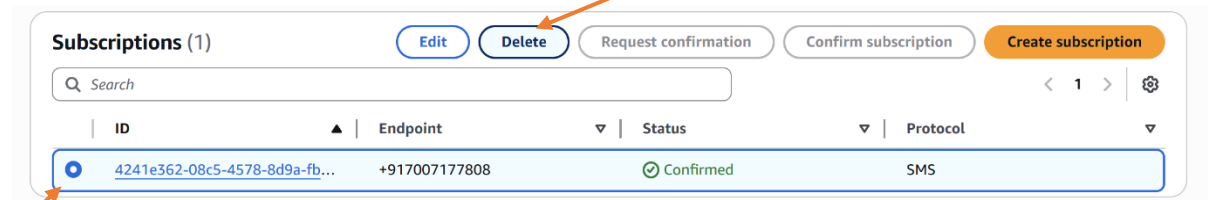
- Message is received.



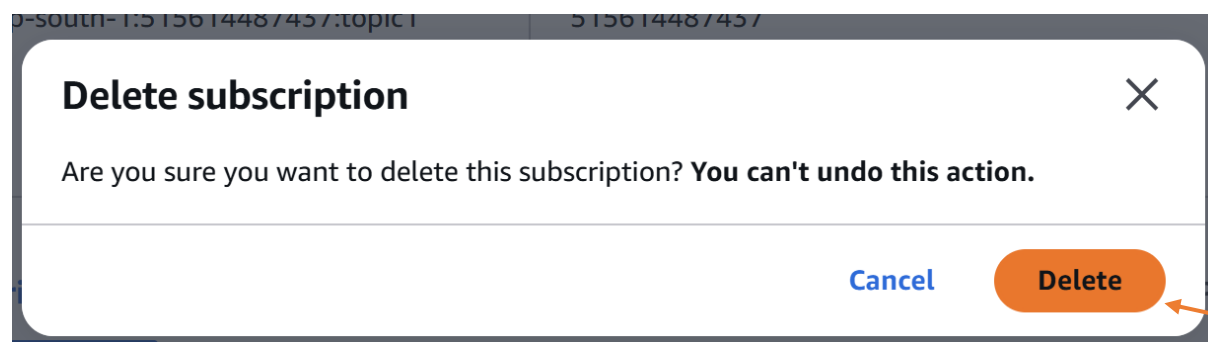
How to create Subscription:-

Step10:-

- Select subscription and click on “delete”.



- Click on “Delete” button.



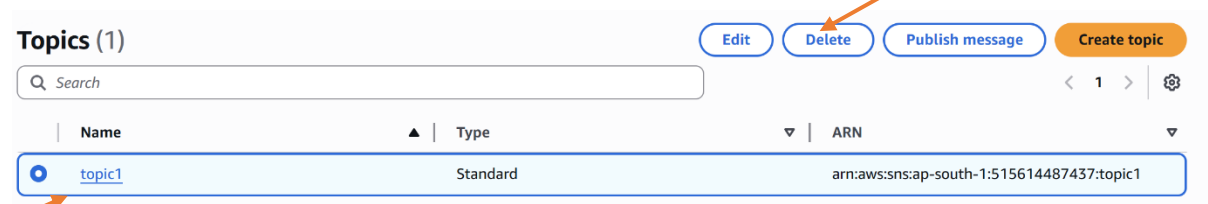
- Subscription deleted successfully.



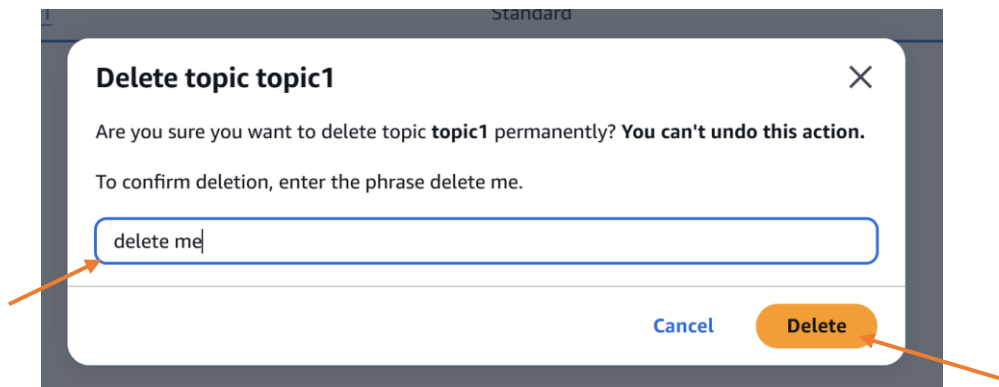
How to create Topic:-

Step10:-

- Select topic and click on “delete”.



- Write “delete me” and click in “Delete”.



- Write “delete me” and click in “Delete”.

