

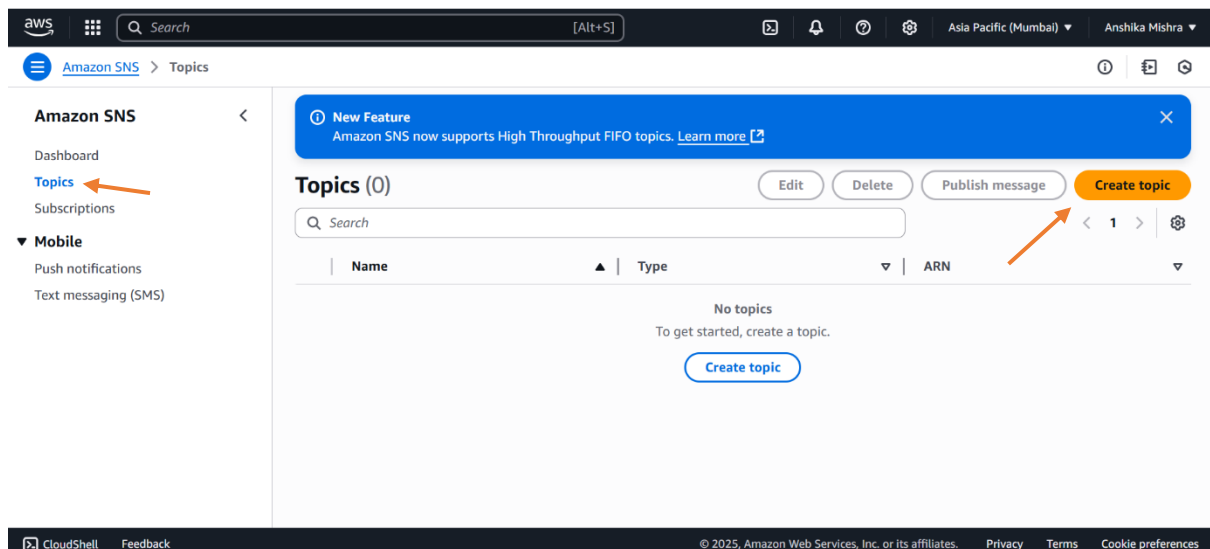
# Simple Notification Service(SNS)

Amazon Simple Notification Service (Amazon SNS) is a fully managed service that provides message delivery from publishers (producers) to subscribers (consumers). Publishers communicate asynchronously with subscribers by sending messages to a *topic*, which is a logical access point and communication channel.

## How to create Topic:-

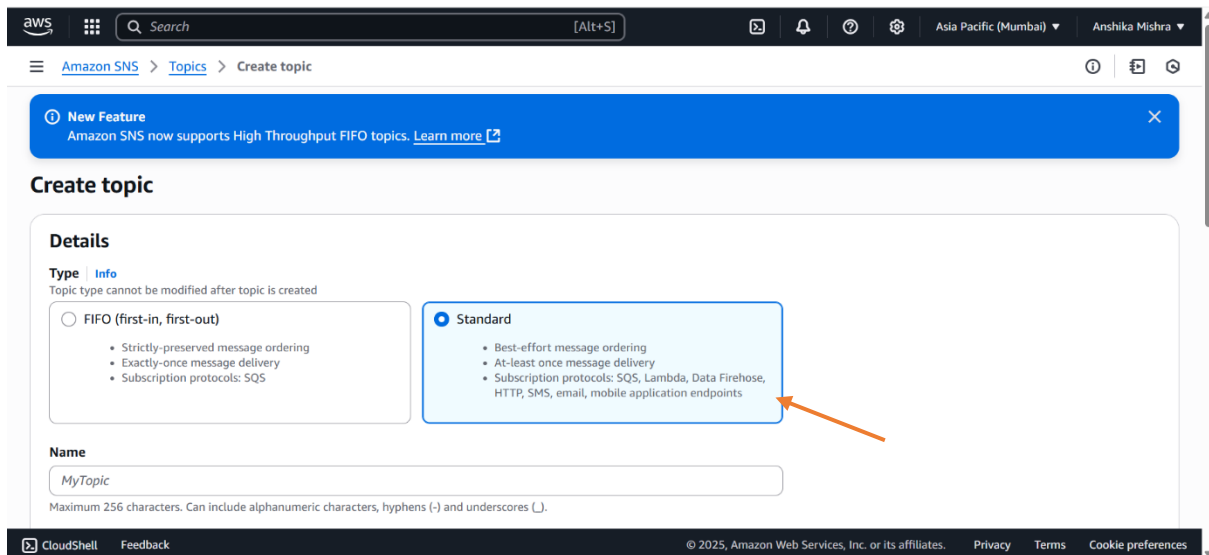
### Step1:-

- 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).



- 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.

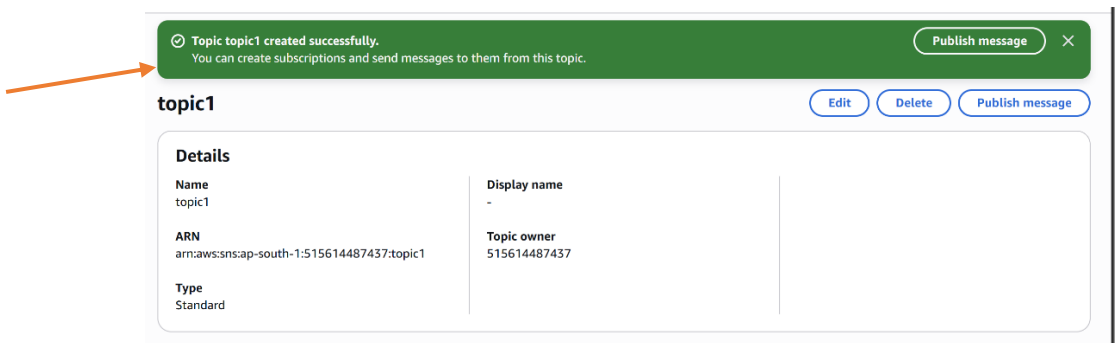
► **Delivery status logging - optional** [Info](#)  
These settings configure the logging of message delivery status to CloudWatch Logs.

► **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](#)

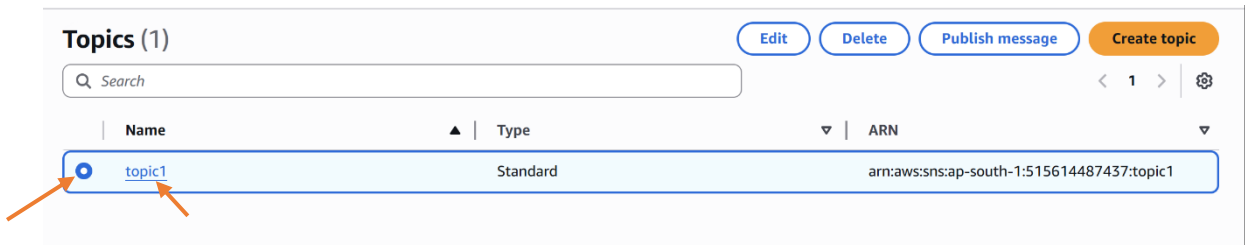
- Topic is created.



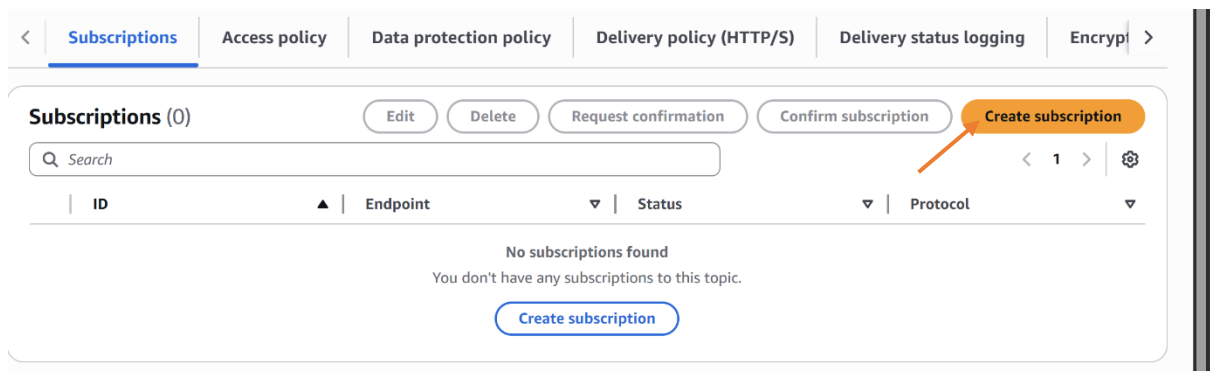
# How to Create subscription “Email” and publish message:-

## Step3:-

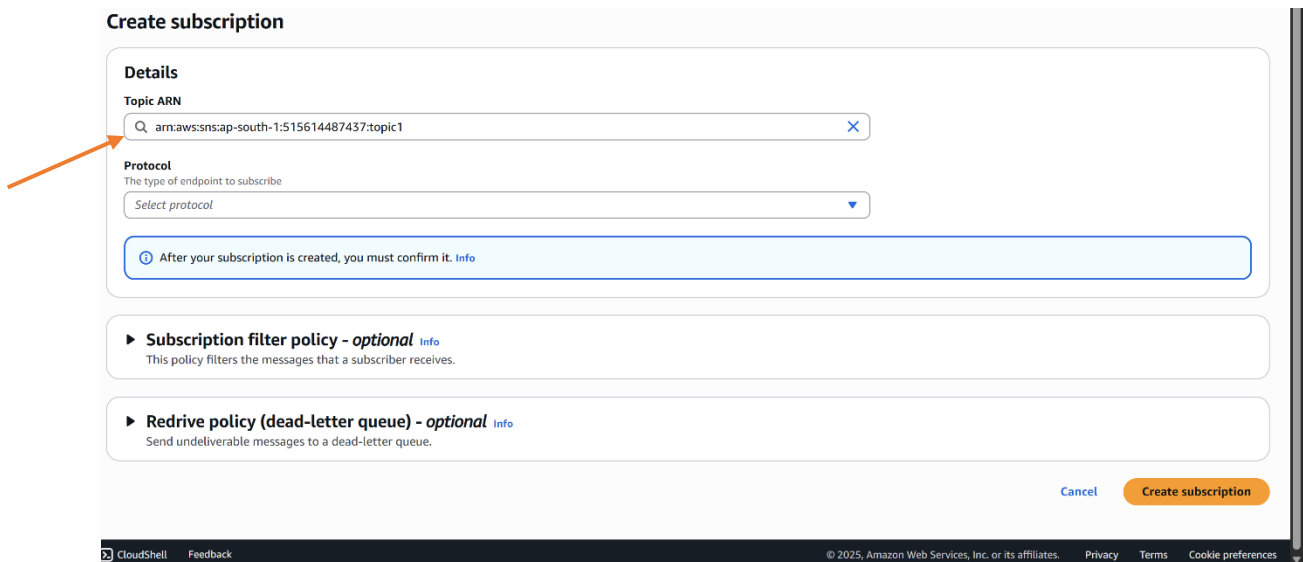
- Select the “Topic” and click on the topic name. Ex:- topic1.



- 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 SNS. The header shows a dark bar with a back arrow, a checkmark, the title "Subscription confirm", and the domain "sns.ap-south-1.amazonaws.com". The main body of the email is white and contains the AWS logo, the text "Simple Notification Service", and a green-bordered box with the following content: "Subscription confirmed!", "You have successfully subscribed!", "Your subscription id is:", "arn:aws:sns:ap-south-1:515814487437:topic:1:79375a99-8c72-49ef-b17e-996d87e0da03", and "If it was not your intention to subscribe, [click here to unsubscribe](#)". An orange arrow points from the bottom left towards the green box.

- The screenshot shows the AWS IAM console interface for managing SNS topics. At the top, there's a header 'Topics (1)' with three buttons: 'Edit', 'Delete', and 'Publish message'. Below this is a search bar labeled 'Search'. A table lists the topics, with columns for 'Name', 'Type', and 'ARN'. The first row shows a topic named 'topic1' of type 'Standard' with the ARN 'arn:aws:sns:ap-south-1:515614487437:topic1'. An orange arrow points to the 'Publish message' button, and another orange arrow points to the 'topic1' entry in the table.

- “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.

The screenshot shows the AWS SNS console interface. At the top, there's a navigation bar with the AWS logo, a search bar, and user information. Below the navigation bar, the breadcrumb trail reads: Amazon SNS > Topics > topic1 > Publish message. The main content area has two tabs: 'topic, regardless of their delivery protocol.' (selected) and 'topic, based on their delivery protocol.'. Under the selected tab, there's a section titled 'Message body to send to the endpoint' with a text area containing the message: '1 HI, My name is Anshika Mishra.' An orange arrow points to this text area.

- Click on “Publish message”.

The screenshot shows the 'Message attributes' section of the AWS SNS console. It has a title 'Message attributes' with an 'Info' link. Below the title, a description states: 'Message attributes let you provide structured metadata items (such as timestamps, geospatial data, signatures, and identifiers) for the message.' There's a table with three columns: 'Type', 'Name', and 'Value'. The 'Type' column has a dropdown menu with 'Select attribute type'. The 'Name' column has a text input with placeholder 'Enter attribute name'. The 'Value' column has a text input with placeholder 'value or ["value1", "value2"]' and a 'Remove' button. Below the table is an 'Add another attribute' button. At the bottom right, there are two buttons: 'Cancel' and 'Publish message'. An orange arrow points to the 'Publish message' button.

- Message is Published.

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

topic1

Details

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

Subscriptions (1)

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

## Step6:-

- Goto the mail and check mail is recieved.

Email Inbox x

**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**

<b>ARN</b> arn:aws:sns:ap-south-1:515614487437:topic1:4241e362-08c5-4578-8d9a-fb04a345a2e4	<b>Status</b> ✓ Confirmed
<b>Endpoint</b> +917007177808	<b>Protocol</b> SMS
<b>Topic</b> <a href="#">topic1</a>	
<b>Subscription Principal</b> arn:aws:iam::515614487437:root	

< 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
<input type="radio"/> <a href="#">4241e362-08c5-4578-8d9a-fb...</a>	+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
<input checked="" type="radio"/> <a href="#">topic1</a>	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”.

aws Search [Alt+S] Asia Pacific (Mumbai) Anshika Mishra

Amazon SNS > Topics > topic1 > Publish message

topic, regardless of their delivery protocol. topic, based on their delivery protocol.

Message body to send to the endpoint

```
1 HI, My name is Anshika Mishra.
```

- 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	Name	Value
Select attribute type	Enter attribute name	value or ["value1", "value2"]

[Add another attribute](#) [Remove](#)

[Cancel](#) [Publish message](#)

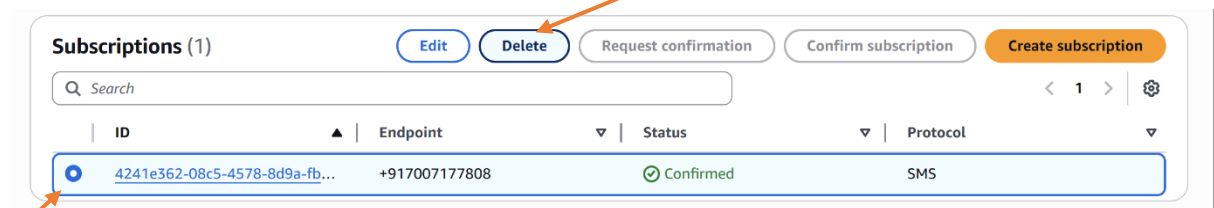
- Message is received.

HI, My name is Anshika Mishra.

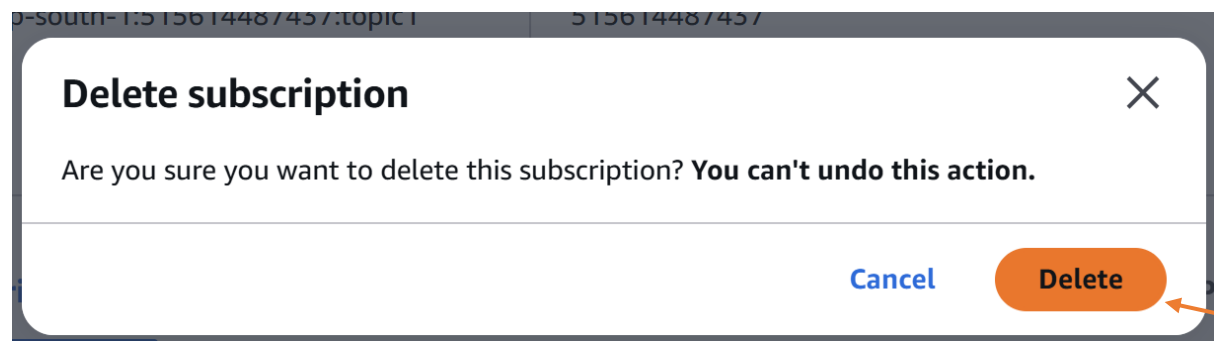
How to create Subscription:-

## Step10:-

- Select subscription and click on “delete”.



- Click on “Delete” button.



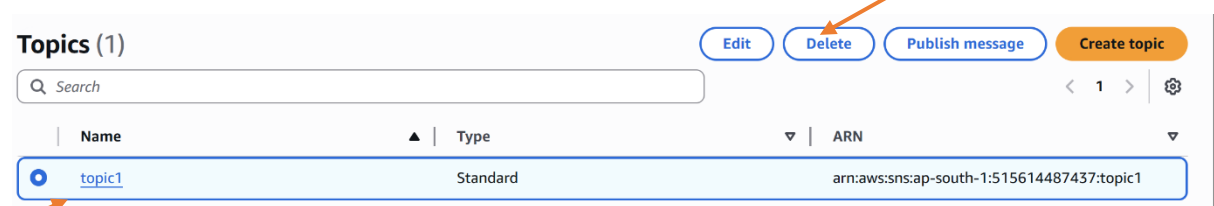
- Subscription deleted successfully.



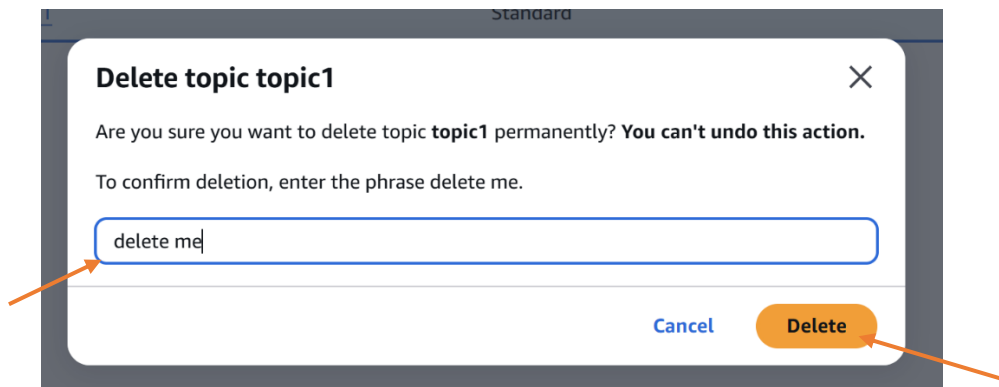
## How to create Topic:-

### Step10:-

- Select topic and click on “delete”.



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



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

