

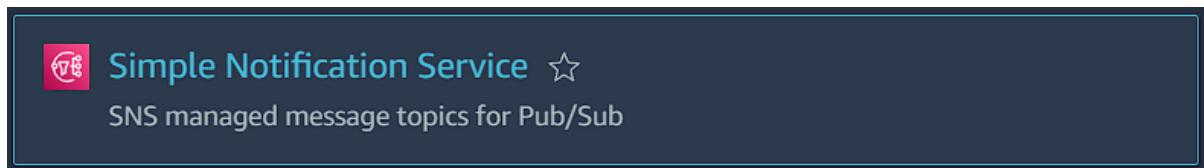
Simple Notification Service

Amazon Simple Notification Service (SNS) is a fully managed messaging service provided by AWS that enables you to send messages or notifications to a variety of endpoints, including email, SMS, HTTP, SQS (Simple Queue Service), Lambda functions, and mobile push notifications. It's a highly scalable and flexible service that allows you to decouple distributed systems, microservices, and serverless applications.

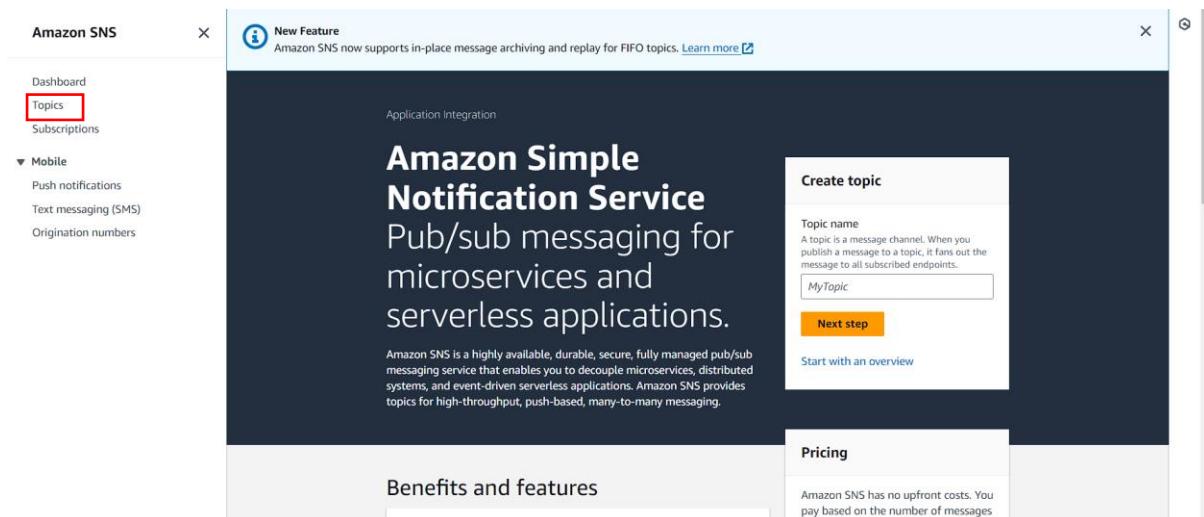
With SNS, you can create topics to which you subscribe your endpoints. When a message is published to a topic, SNS delivers the message to all subscribed endpoints asynchronously. This makes it a powerful tool for building event-driven architectures and implementing push notifications in your applications.

To begin with the Lab:

1. Login to AWS Console and navigate to SNS. Choose this service accordingly.



2. On the dashboard of SNS click on Topics.



3. Now click on create topic.

Amazon SNS > Topics

Topics (0)

Search

Edit Delete Publish message Create topic

Name	Type	ARN
No topics		
To get started, create a topic.		
Create topic		

- Now choose standard, then give it a name, after that provide some display name if you want.

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
- High throughput, up to 300 publishes/second
- Subscription protocols: SQS

Standard

- Best-effort message ordering
- At-least once message delivery
- Highest throughput in publishes/second
- Subscription protocols: SQS, Lambda, HTTP, SMS, email, mobile application endpoints

Name

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.

Maximum 100 characters.

- Once you service is created, now you need to create a subscription. Click on create subscription.

demo-SNS

Details

Name demo-SNS	Display name Testing this service.
ARN arn:aws:sns:ap-south-1:878893308172:demo-SNS	Topic owner 878893308172
Type Standard	

[Subscriptions](#) [Access policy](#) [Data protection policy](#) [Delivery policy \(HTTP/S\)](#) [Delivery status logging](#) [Encryption](#) [Tags](#) [Integrations](#)

Subscriptions (0)

Search

Edit Delete Request confirmation Confirm subscription Create subscription

ID	Endpoint	Status	Protocol
No subscriptions found			
You don't have any subscriptions to this topic.			
Create subscription			

6. Here you need to select protocol as email and in the endpoint, you need to give your email address.
7. Then click on create subscription.

Details

Topic ARN
 X

Protocol
The type of endpoint to subscribe
 ▼

Endpoint
An email address that can receive notifications from Amazon SNS.

i After your subscription is created, you must confirm it. [Info](#)

► **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

8. Once you subscription is created you need to open your Gmail and check for the mail from AWS.
9. In the mail you need to click on confirm subscription.

AWS Notification - Subscription Confirmation ➔ Inbox X



Testing this service.
to me ▾

You have chosen to subscribe to the topic:
arn:aws:sns:ap-south-1:878893308172:demo-SNS

To confirm this subscription, click or visit the link below (If this was in error no action is necessary):
[Confirm subscription](#)

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](#)

◀ Reply ▶ Forward 😊



Simple Notification Service

Subscription confirmed!

You have successfully subscribed.

Your subscription's id is:

arn:aws:sns:ap-south-1:878893308172:demo-SNS:99ca53d3-c897-417e-9c98-4d1cd833f8c7

If it was not your intention to subscribe, [click here to unsubscribe](#).

10. After the confirmation if you will go back to SNS you will see that the status of your topic has been changed to Confirmed.

11. After that click on Publish Message.

The screenshot shows the AWS SNS Topic configuration page for 'demo-SNS'. At the top, there are three buttons: 'Edit', 'Delete', and 'Publish message', with 'Publish message' highlighted by a red box. Below this, the 'Details' section displays the topic's name ('demo-SNS'), ARN ('arn:aws:sns:ap-south-1:878893308172:demo-SNS'), and type ('Standard'). The 'Display name' is set to 'Testing this service.' In the 'Subscriptions' section, there is one entry: an endpoint ('pulkitkumar2711@gmail.com') with an ID ('99ca53d3-c897-417e-9c98-4d1cd833f8c7') and a status of 'Confirmed' (indicated by a green checkmark icon). The 'Protocol' is listed as 'EMAIL'. Navigation links at the bottom include 'Subscriptions', 'Access policy', 'Data protection policy', 'Delivery policy (HTTP/S)', 'Delivery status logging', 'Encryption', 'Tags', and 'Integrations'.

12. There in the message body write anything and then click on publish.

Message body

Message structure

Identical payload for all delivery protocols.
The same payload is sent to endpoints subscribed to the topic, regardless of their delivery protocol.

Custom payload for each delivery protocol.
Different payloads are sent to endpoints subscribed to the topic, based on their delivery protocol.

Message body to send to the endpoint

1 This is a Test Message.

13. Now open you email you will see a mail from AWS.

14. Now if you want to unsubscribe from this service you can it anytime by clicking on this link below your message in the mail itself.

AWS Notification Message ➔ [Inbox](#) [unsubscribe](#)



Testing this service.

to me ▾

This is a Test Message.

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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-1:878893308172:demo-SNS-99ca53d3-c897-417e-9c98-4d1cd833f8c7&Endpoint=pulkitkumar2711@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>

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[Forward](#)

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