

Lesson 08 Demo 06

Creating SNS Topic, Fanout, and S3 Event Notification

Objective: To create an Amazon SNS topic, subscribe to it, and set up an S3 event notification to highlight the fanout capability of SNS

Tools required: AWS account management console

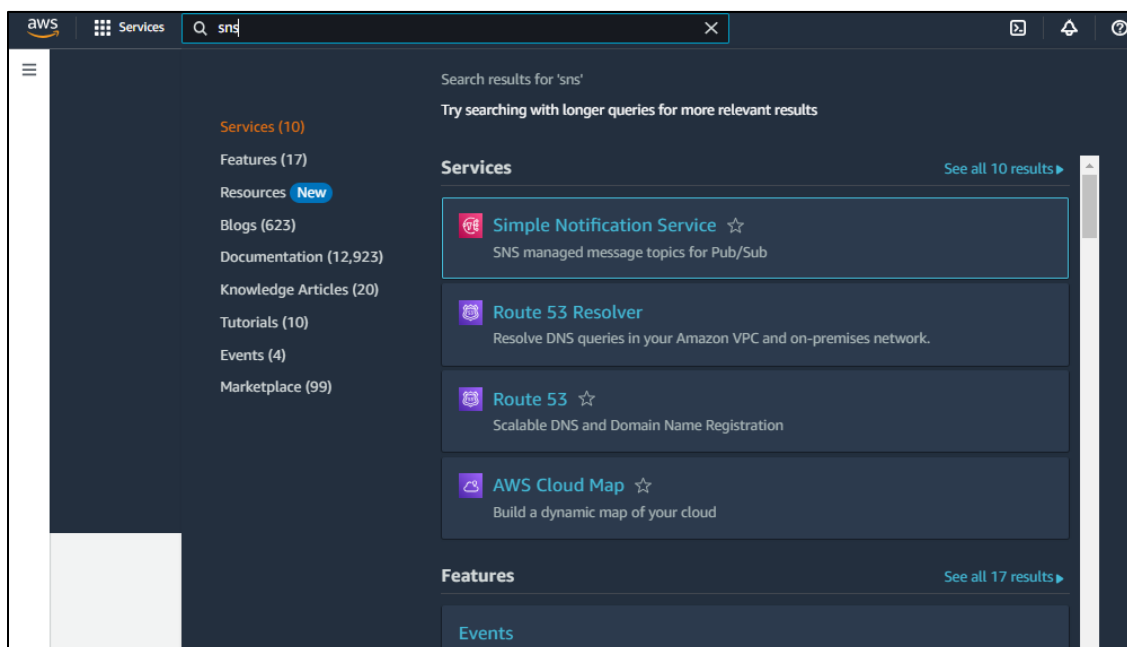
Prerequisites: None

Steps to be followed:

1. Create an SNS topic
2. Subscribe to the SNS topic

Step 1: Create an SNS topic

1.1 Navigate to the **AWS Management Console**. Search for and select Amazon **SNS**

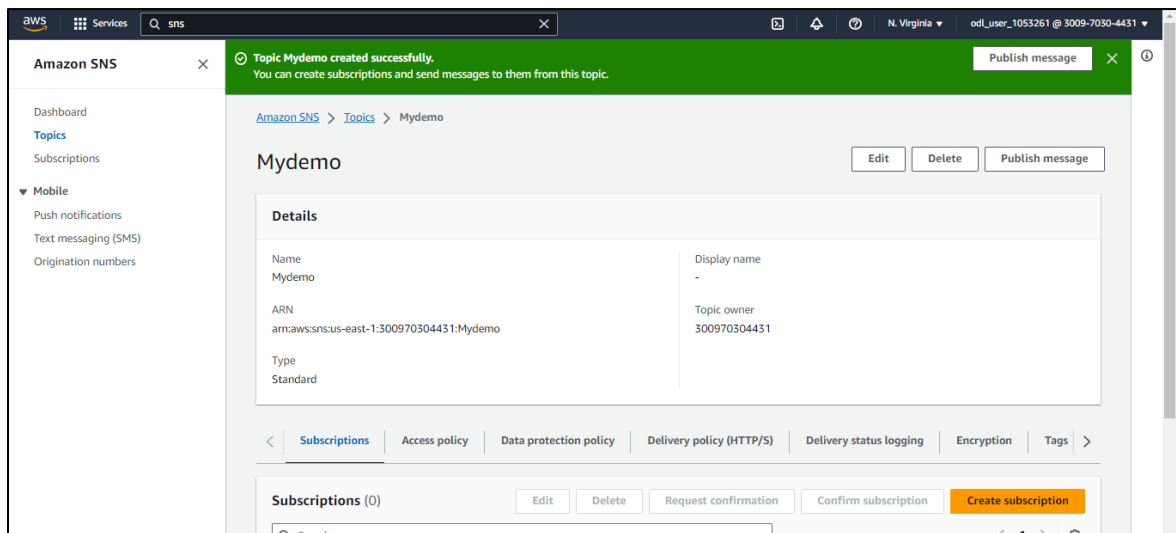


1.2 Enter **Mydemo** as the topic name and click on the **Next step** button

The screenshot shows the AWS Management Console for the Amazon Simple Notification Service (SNS). The main heading is 'Amazon Simple Notification Service' with the subtitle 'Pub/sub messaging for microservices and serverless applications.' Below this, there is a brief description of SNS. On the right side, there is a 'Create topic' form. The 'Topic name' field is filled with 'Mydemo'. Below the input field, there is a 'Next step' button and a link 'Start with an overview'. At the bottom, there is a 'Pricing' section that states 'Amazon SNS has no upfront costs. You pay based on the number of messages you publish, the number of messages you deliver, and any additional API calls for managing topics and subscriptions.'

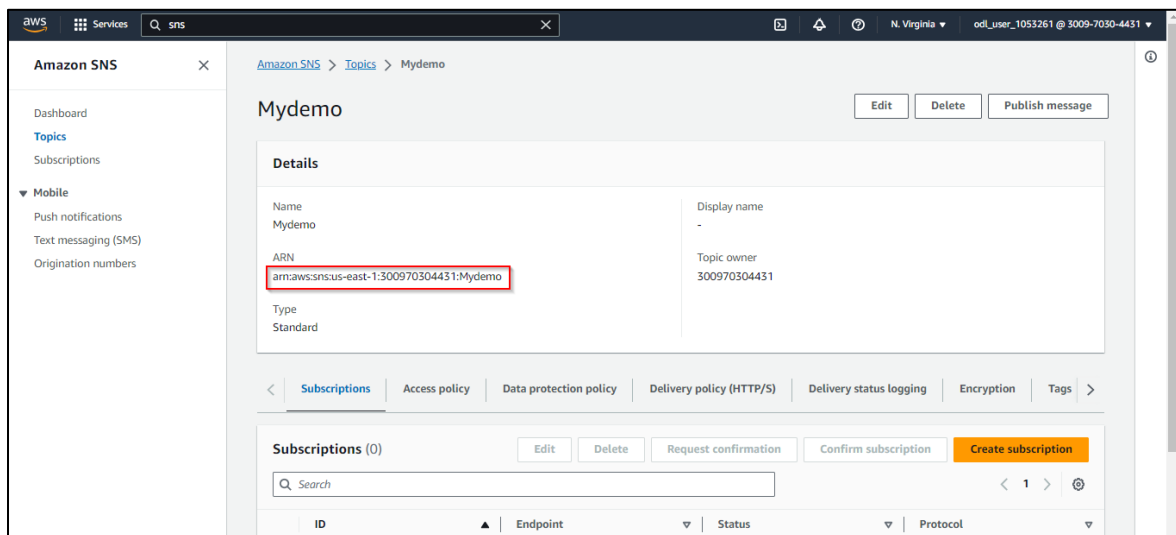
1.3 Click **Create topic**

The screenshot shows the 'Create topic' form in the AWS SNS console. The form has three sections for optional settings: 'Delivery status logging - optional', 'Tags - optional', and 'Active tracing - optional'. Each section has a brief description and a link to learn more. At the bottom right, there are two buttons: 'Cancel' and 'Create topic'.



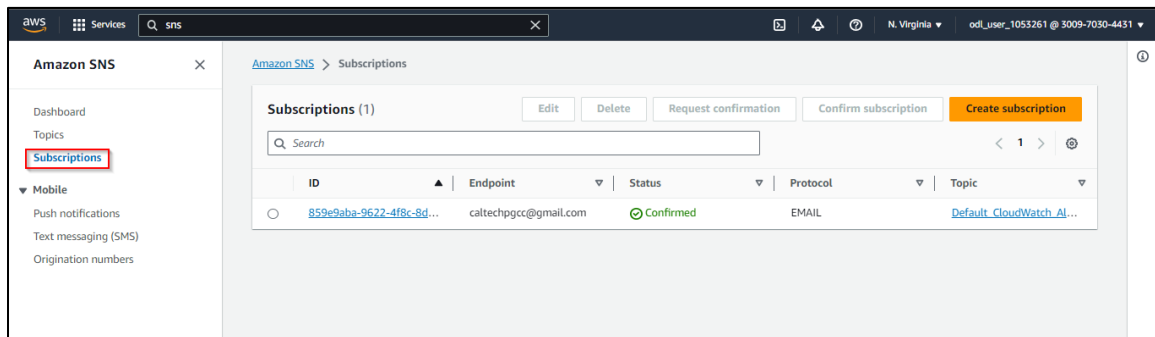
The topic has been successfully created.

1.4 Copy the ARN (paste it in step 2.2)

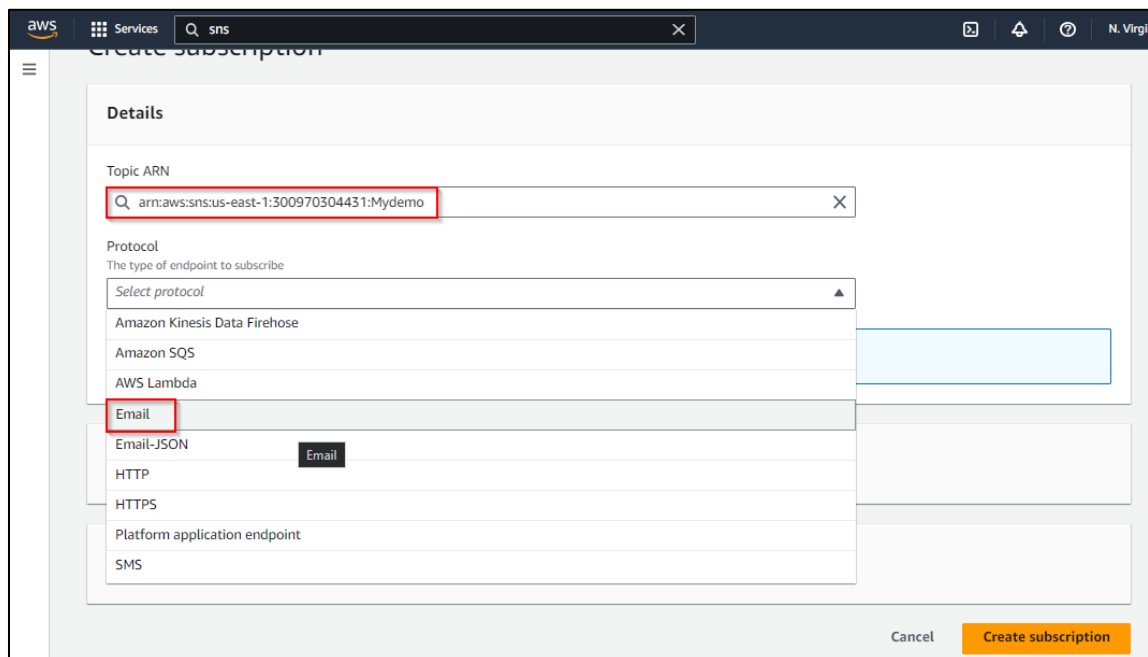


Step 2: Subscribe to the SNS topic

2.1 In the navigation pane, choose **Subscriptions** and click **Create subscription**



2.2 Select **Mydemo** (copied in step 1.4) as the **Topic ARN** and set the **Protocol** to **Email**



2.3 For the **Endpoint**, enter an email address for receiving notifications and click **Create subscription**

aws Services Q sns

Topic ARN
Q arn:aws:sns:us-east-1:300970304431:Mydemo X

Protocol
The type of endpoint to subscribe
Email

Endpoint
An email address that can receive notifications from Amazon SNS.
[Redacted]@gmail.com

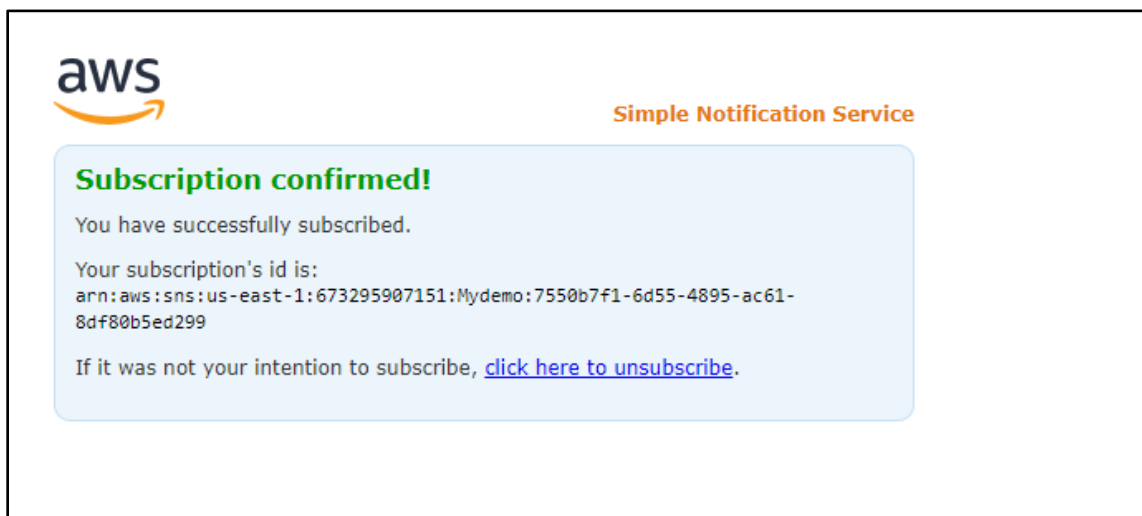
After your subscription is created, you must confirm it. [Info](#)

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

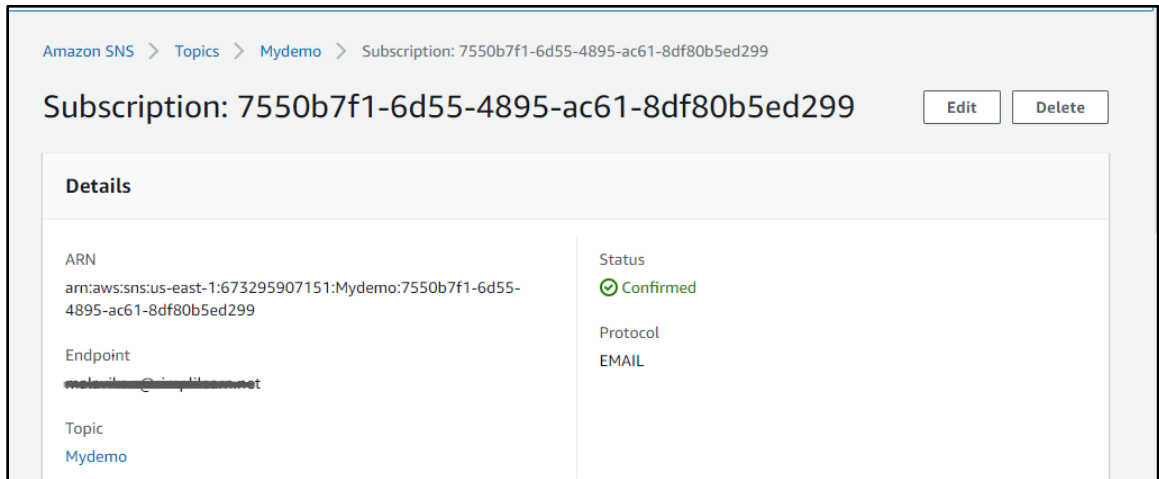
► **Redrive policy (dead-letter queue) - optional** [Info](#)
Send undeliverable messages to a dead-letter queue.

Cancel Create subscription

2.4 Open your email application, locate the message from AWS Notifications, and confirm your subscription



Once confirmed, your web browser will display a confirmation response from Amazon SNS.



By following these steps, you have successfully created an SNS topic, subscribed to it via email, and experienced S3 event notifications using the fanout mechanism of Amazon SNS.