

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

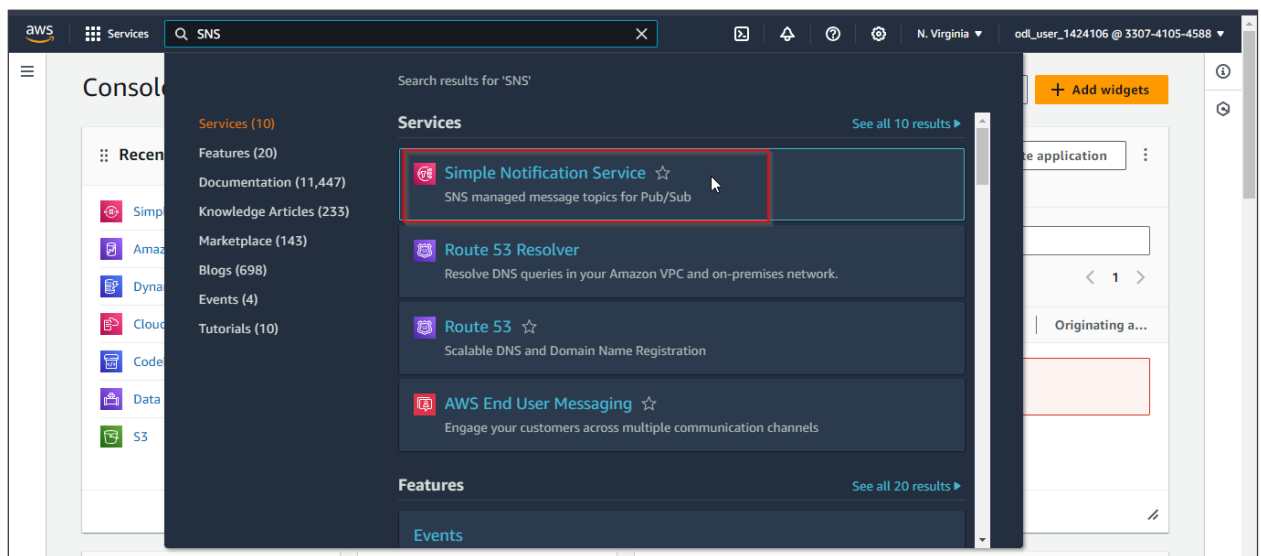
Prerequisites: None

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

Amazon Simple Notification Service
Pub/sub messaging for microservices and serverless applications.

Amazon SNS is a highly available, durable, secure, fully managed pub/sub messaging service that enables you to decouple microservices, distributed systems, and event-driven serverless applications. Amazon SNS provides topics for high-throughput, push-based, many-to-many messaging.

Create topic

Topic name
A topic is a message channel. When you publish a message to a topic, it fans out the message to all subscribed endpoints.

Mydemo

Next step
Start with an overview

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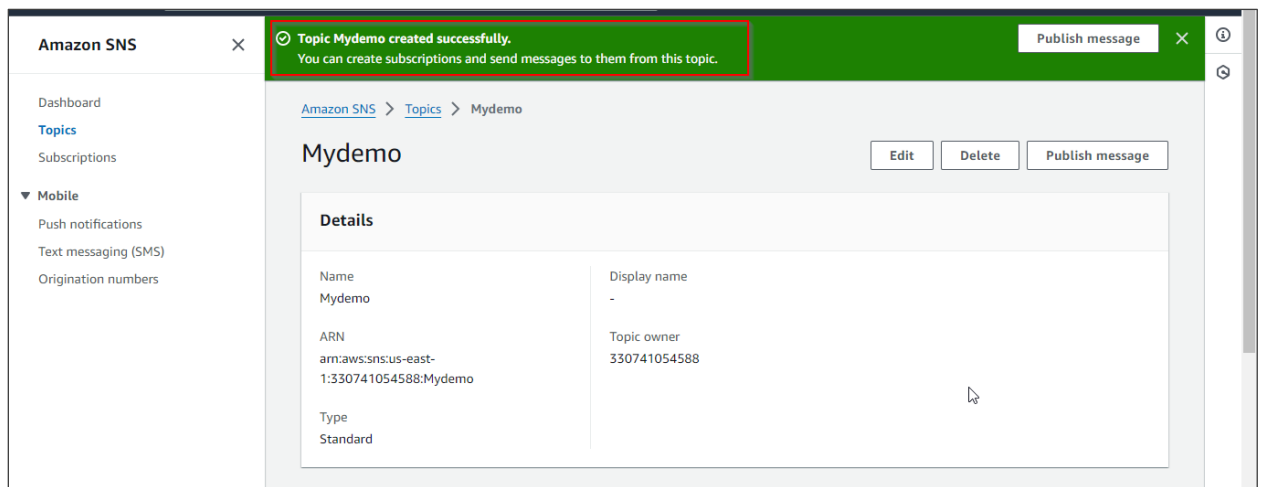
1.3 Click on **Create topic**

► **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](#)

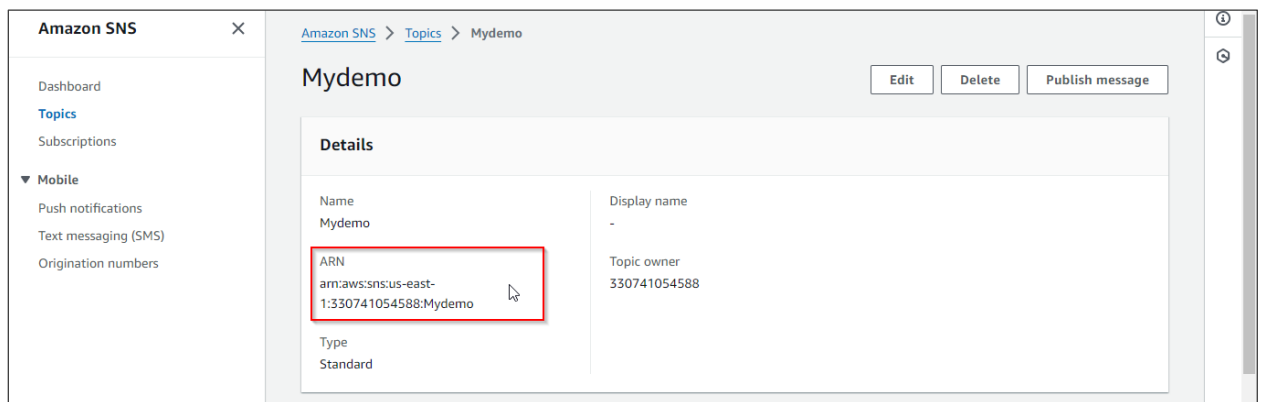
► **Active tracing - optional** [Info](#)
Use AWS X-Ray active tracing for this topic to view its traces and service map in Amazon CloudWatch. Additional costs apply.

Cancel **Create topic**



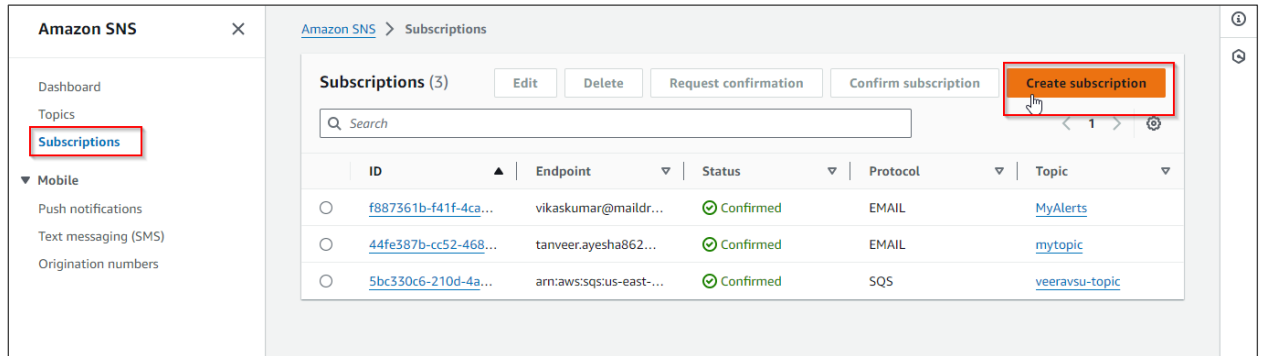
The topic has been successfully created.

1.4 Copy the **ARN** (This will be used in step 2.2)

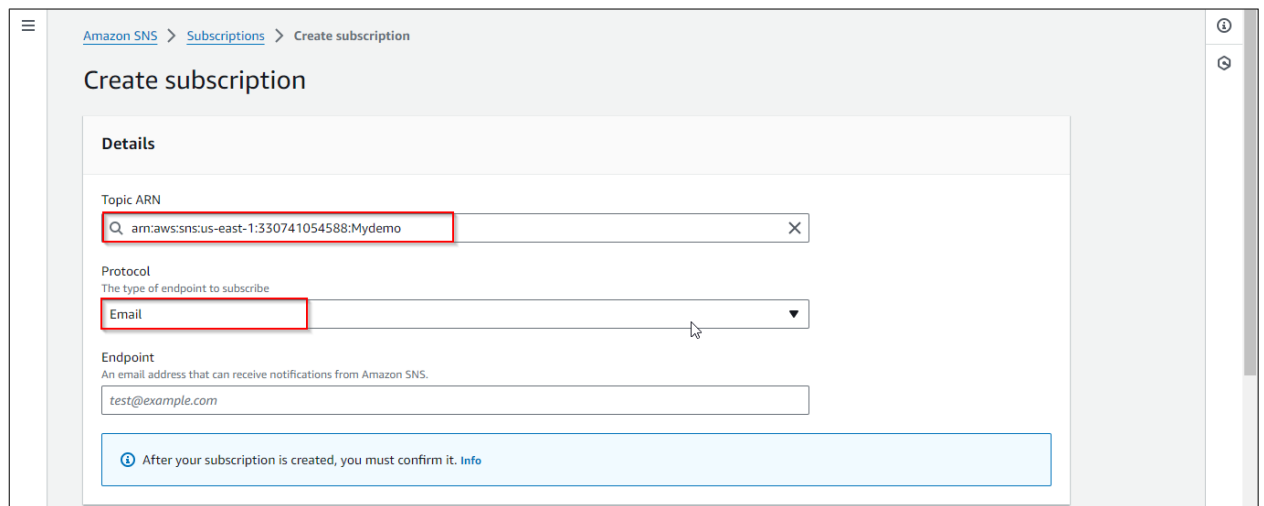


Step 2: Subscribe to the SNS topic

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**

Protocol
The type of endpoint to subscribe

Email

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

mydemo@gmail.com

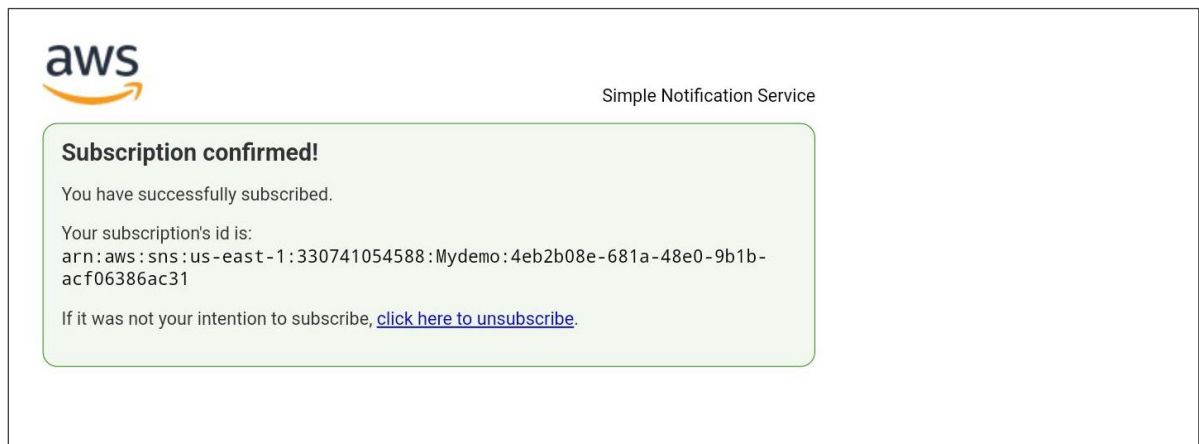
After your subscription is created, you must confirm it. [Info](#)

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

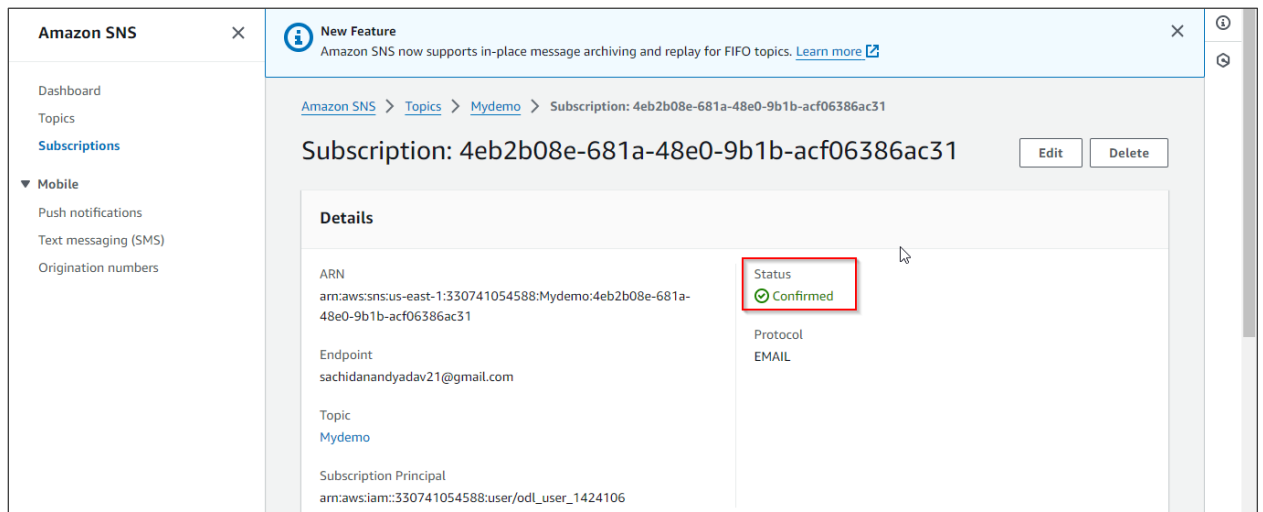
► **Redrive policy (dead-letter queue) - optional** [Info](#)
Send undeliverable messages to a dead-letter queue.

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 Amazon SNS's fanout mechanism.