

AWS SNS → SQS Setup

orders-topic → orders-queue (Step-by-Step with Screenshots)

Created by: Samarth Mahadik • Date: 2025-08-26 10:31

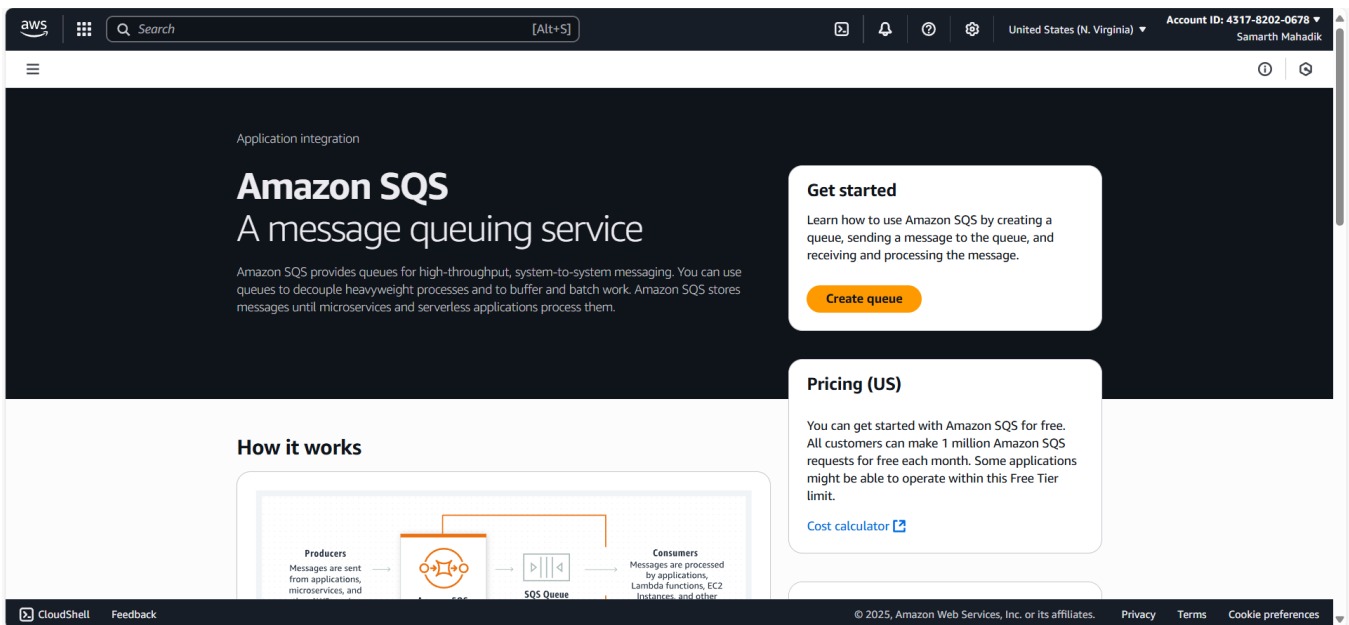
Goal: Deliver messages from an Amazon SNS topic (*orders-topic*) to an Amazon SQS queue (*orders-queue*).
Result: SNS topic is created, SQS queue is created, a subscription (protocol: SQS) connects them, and a test message published to the topic arrives in the queue.

High-level flow: Producer → **SNS Topic** (orders-topic) → **SQS Queue** (orders-queue) → Consumer.

Prerequisites: AWS account, IAM permissions for SNS and SQS, region: *us-east-1* (N. Virginia).

Step 1: Open SQS Dashboard

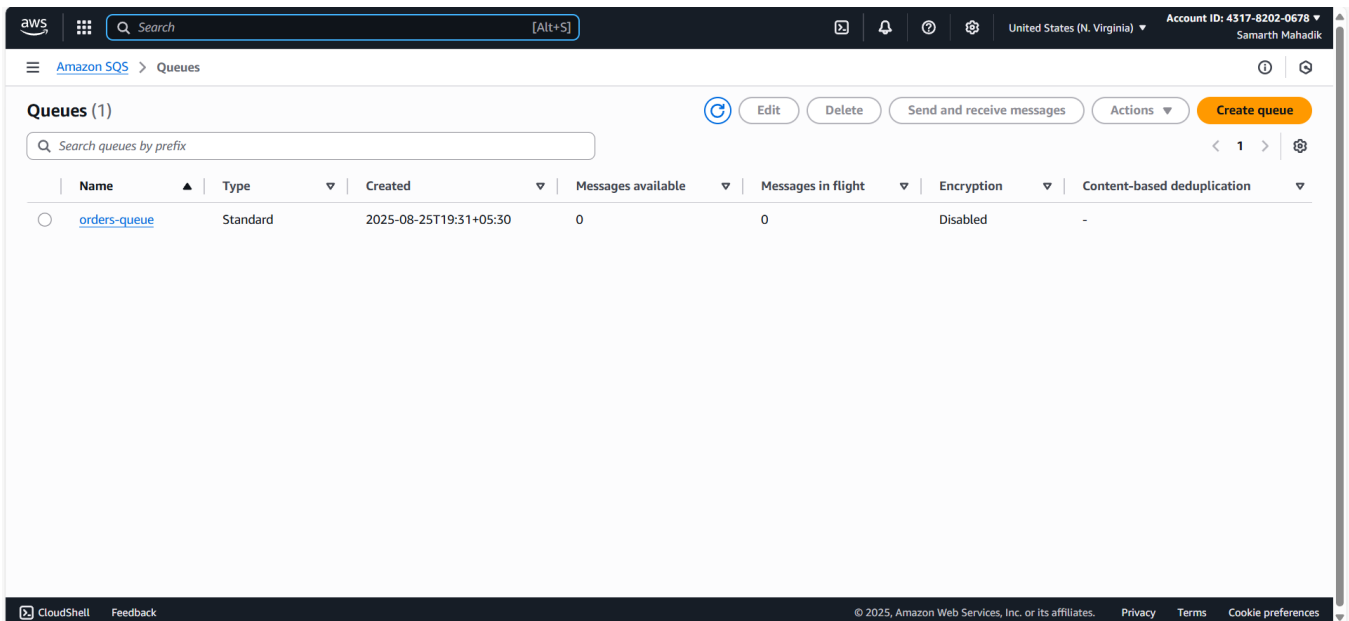
From AWS Console, navigate to **Amazon SQS** to start. (Reference screenshot below.)



SQS Dashboard: Starting point

Step 2: Create SQS Queue (orders-queue)

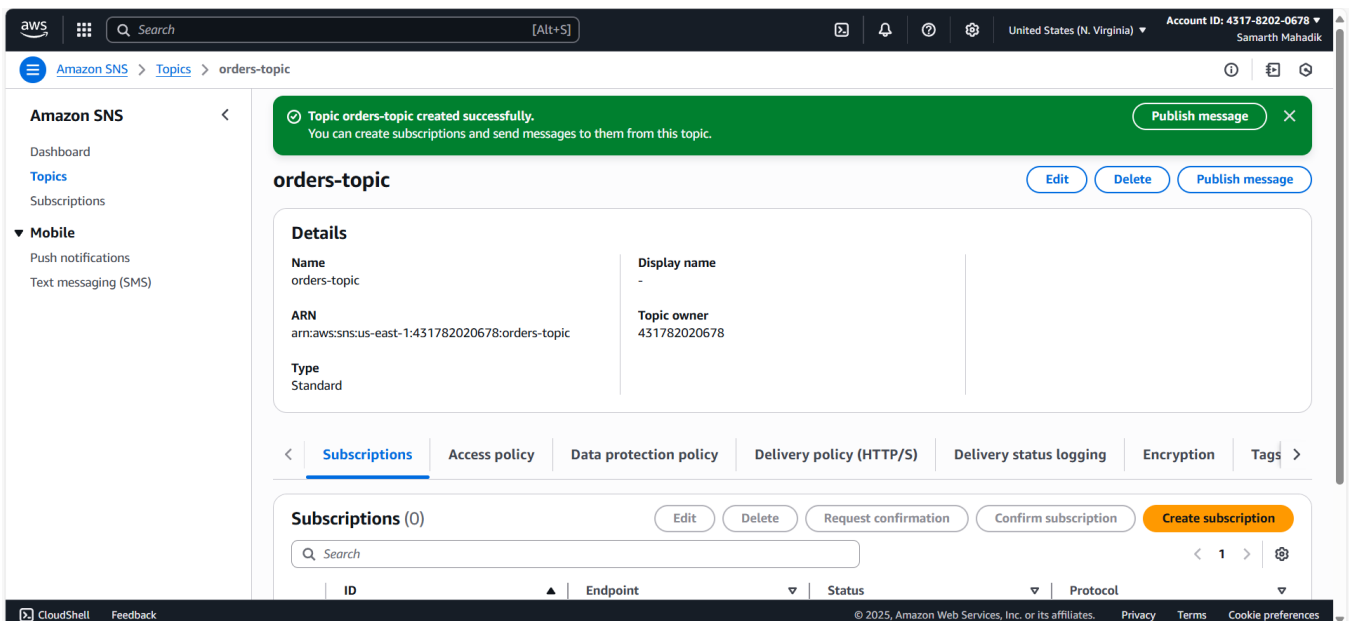
Click **Create queue** → choose **Standard** → set **Name** = **orders-queue**. Keep defaults (encryption disabled). Create the queue.



Create SQS Queue: Created a Standard queue named 'orders-queue' (defaults, encryption disabled)

Step 3: Create SNS Topic (orders-topic)

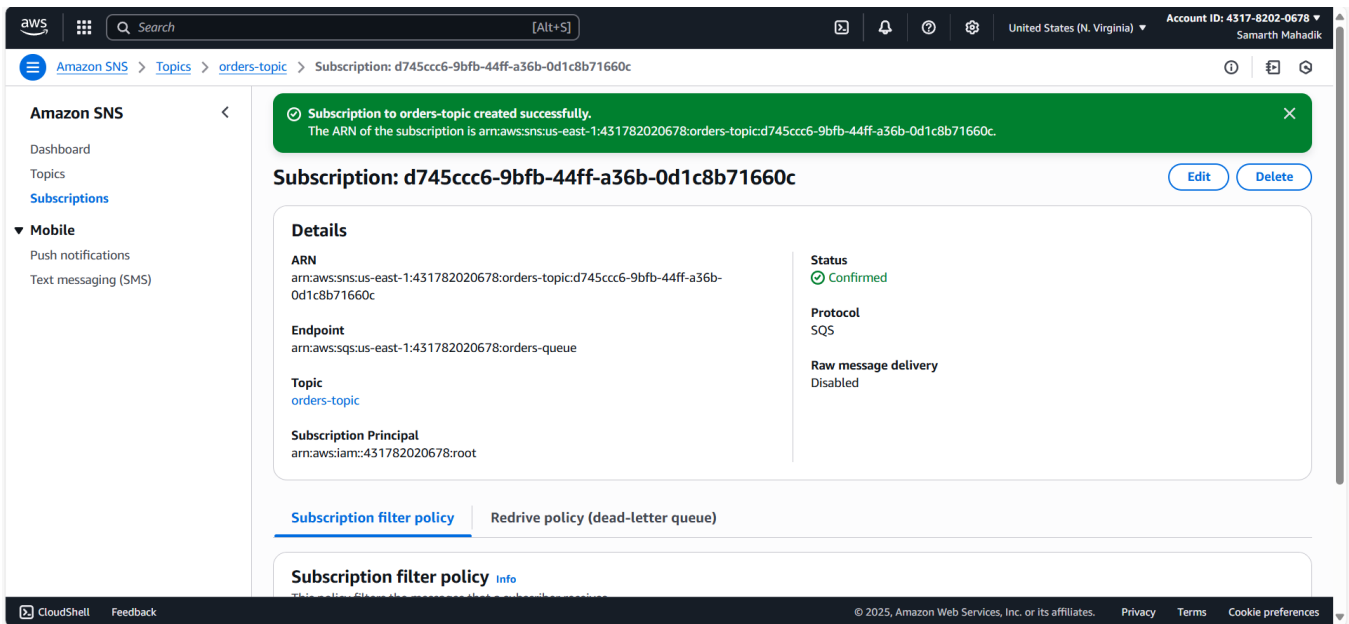
Go to **Amazon SNS** › **Topics** → **Create topic** → choose **Standard** → set **Name = orders-topic** → Create topic.



Create SNS Topic: Created a Standard topic named 'orders-topic'

Step 4: Subscribe SQS to the SNS topic

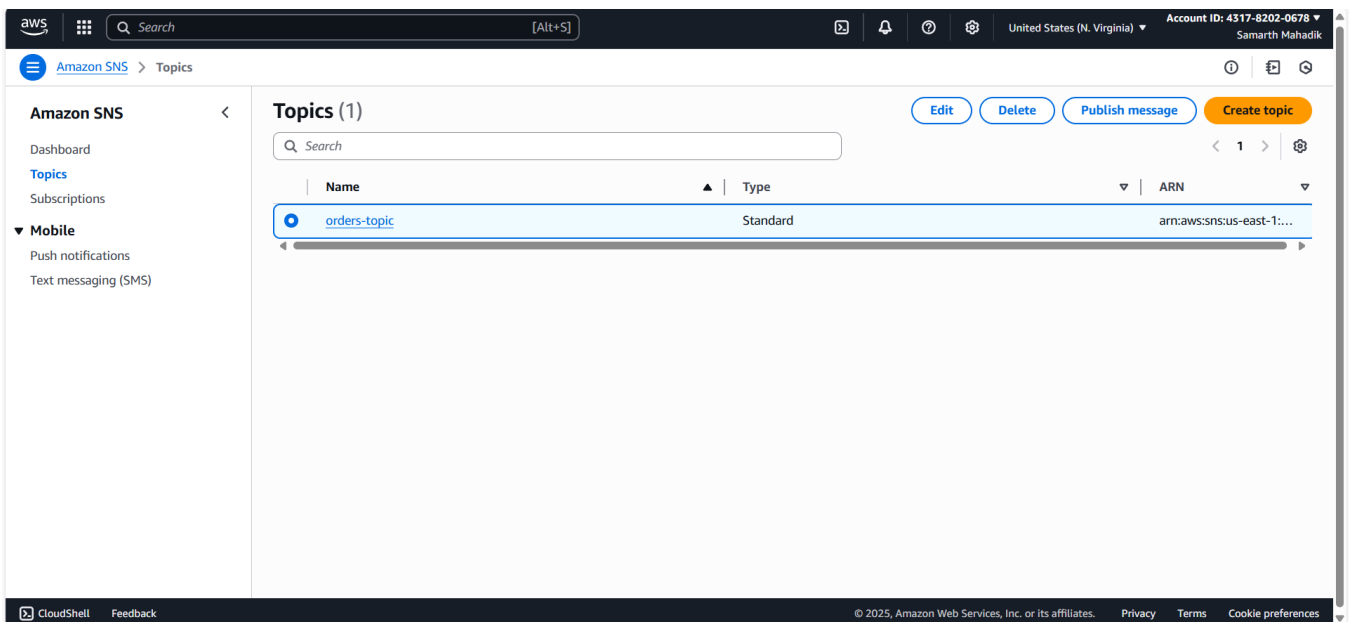
In the topic page, click **Create subscription**. Set **Protocol = SQS**, and choose the **orders-queue** as Endpoint. Create the subscription. Status should show **Confirmed**. Alternatively, from the SQS queue page, open the **SNS subscriptions** tab and subscribe to the **orders-topic**.



Confirm Subscription: Subscribed SQS queue to SNS topic (status Confirmed)

Step 5: Publish a test message to SNS

On the topic page, click **Publish message**. Enter a simple body (e.g., {"orderId": 1001, "status": "created"}) and publish.



Publish a Test Message to SNS topic 'orders-topic'

Step 6: Receive the message from SQS

Open the SQS queue (**orders-queue**) → **Send and receive messages** → **Poll for messages**. You should see the message delivered from SNS.

The screenshot shows the Amazon SQS console for the 'orders-queue'. The 'SNS subscriptions' tab is active, showing a table with one subscription. The subscription details are as follows:

Subscription ARN	Topic ARN
arn:aws:sns:us-east-1:431782020678:orders-topic:d745ccc6-9bfb-44ff-a36b-0d1c8b71660c	arn:aws:sns:us-east-1:431782020678:orders-topic

Receive the Message in SQS: Verify delivery in 'orders-queue'

Verification: The SQS queue page shows the topic under **SNS subscriptions**, and the message published to the topic is visible when polling the queue. The subscription status should be **Confirmed**.

Cleanup (optional): To avoid unwanted costs, delete the SNS subscription, the SNS topic *orders-topic*, and the SQS queue *orders-queue* when you finish testing.