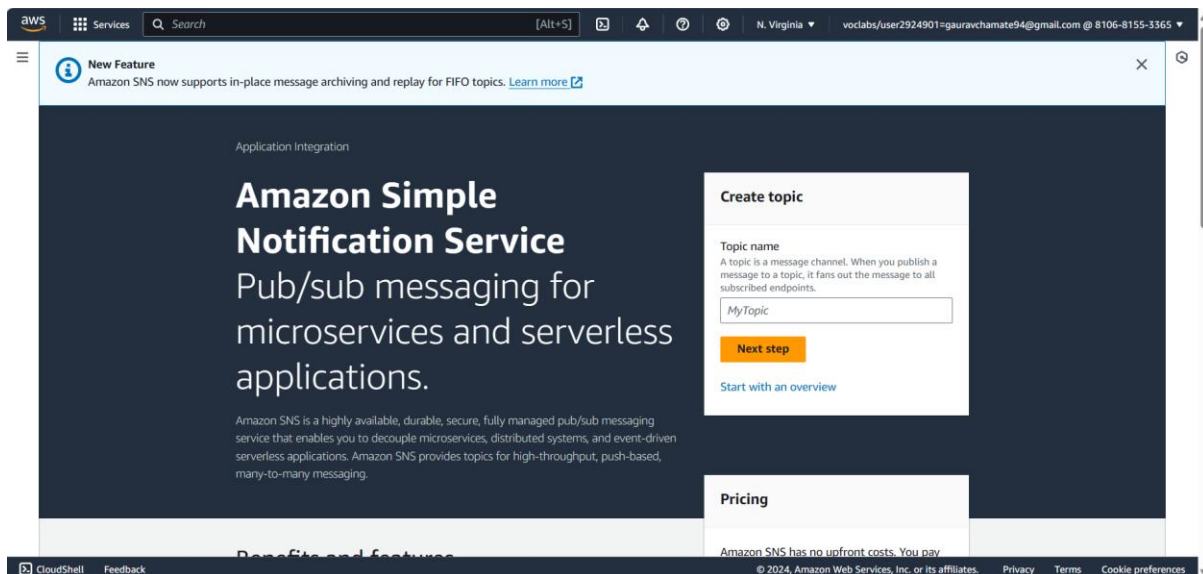
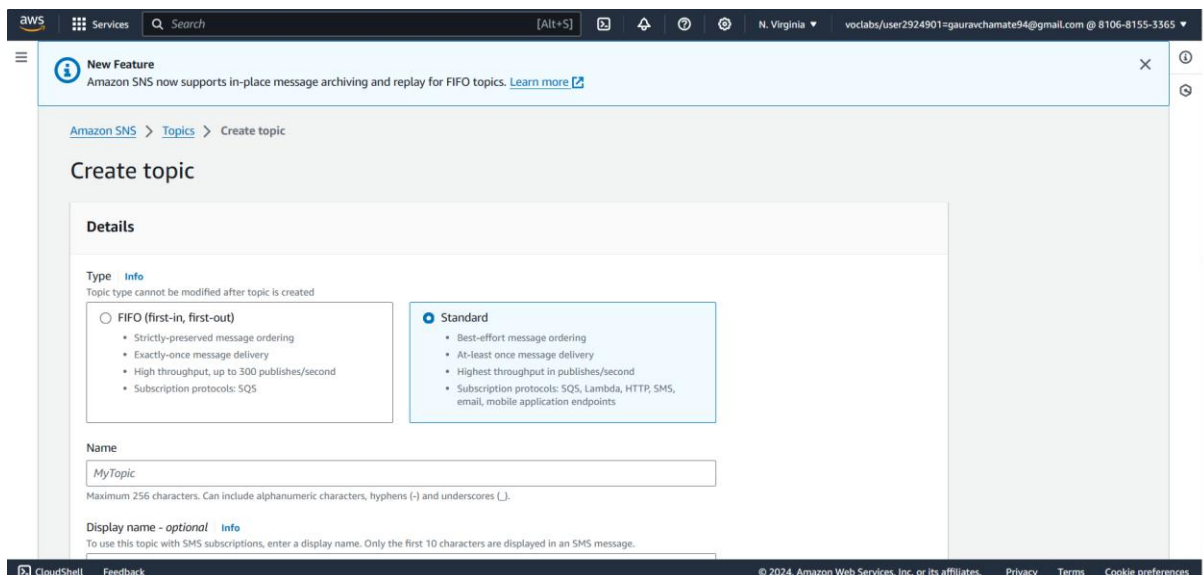


A. Hands-on: Create the SNS topic

1. Go to the SNS management console at <https://console.aws.amazon.com/sns/> (you will be required to sign in)
2. Ensure the region is N Virginia
3. In the left navigation click on the (hamburger) menu on the left top of the screen to expand it (if needed)
4. Click on Topics menu option
5. Click on Create topic button on the right top of the screen



- Under the Details card make the following changes -
- a) For the Type, select the Standard radio button
 - b) For the Name text field, paste the following value -



aws

Services

Search

[Alt+S]

N. Virginia

voclabs/user2924901=gauravchamate94@gmail.com @ 8106-8155-3365

Amazon SNS > Topics > Create topic

Create topic

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

content_topic

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.

Content topic

Maximum 100 characters.

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Origination numbers

New Feature

Amazon SNS now supports in-place message archiving and replay for FIFO topics. [Learn more](#)

Topic content_topic created successfully.

You can create subscriptions and send messages to them from this topic.

Publish message

Amazon SNS > Topics > content_topic

content_topic

Edit Delete Publish message

Details

Name

content_topic

ARN

arn:aws:sns:us-east-1:810681553365:content_topic

Type

Standard

Display name

Content topic

Topic owner

810681553365

< Subscriptions

Access policy

Data protection policy

Delivery policy (HTTP/S)

Delivery status logging

Encryption

Tag >

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B. Hands-On: Create the SQS queue © Great Learning. All rights reserved.

2 Try it out! V1.1 PGP in Cloud Computing 1. In a new browser tab (not in the SNS management console tab) go to the SQS management console at <https://console.aws.amazon.com/sqs/> 2. Ensure the region is N Virginia

The screenshot shows the AWS Management Console 'Create queue' page. The breadcrumb navigation is 'Amazon SQS > Queues > Create queue'. The 'Details' section has a 'Type' dropdown with 'Standard' selected. Below it, a note states: 'You can't change the queue type after you create a queue.' The 'Name' field is 'content_q'. The 'Configuration' section is partially visible at the bottom.

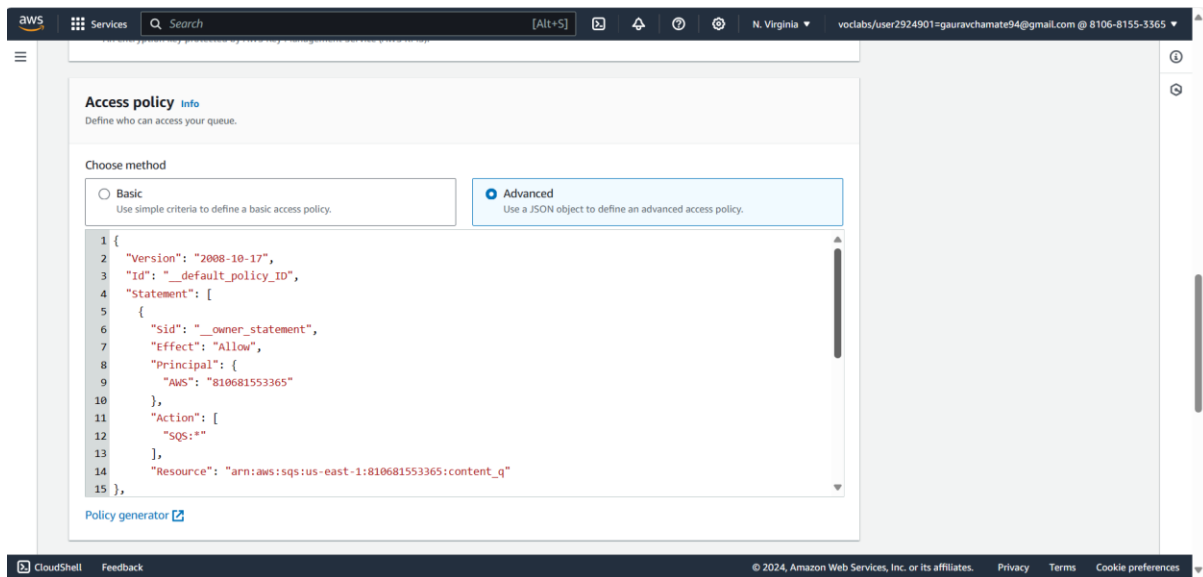
3. In the left navigation click on the (hamburger) menu on the left top of the screen to expand it 4. Click on Queues menu option 5. Click on Create queue button on the right top of the screen 6. Under the Details card make the following changes - a) For the Type, select the Standard radio button (should be selected by default) b) For the Name text field, paste the following value –

The screenshot shows the 'Configuration' section of the 'Create queue' page. It includes the following fields and values:

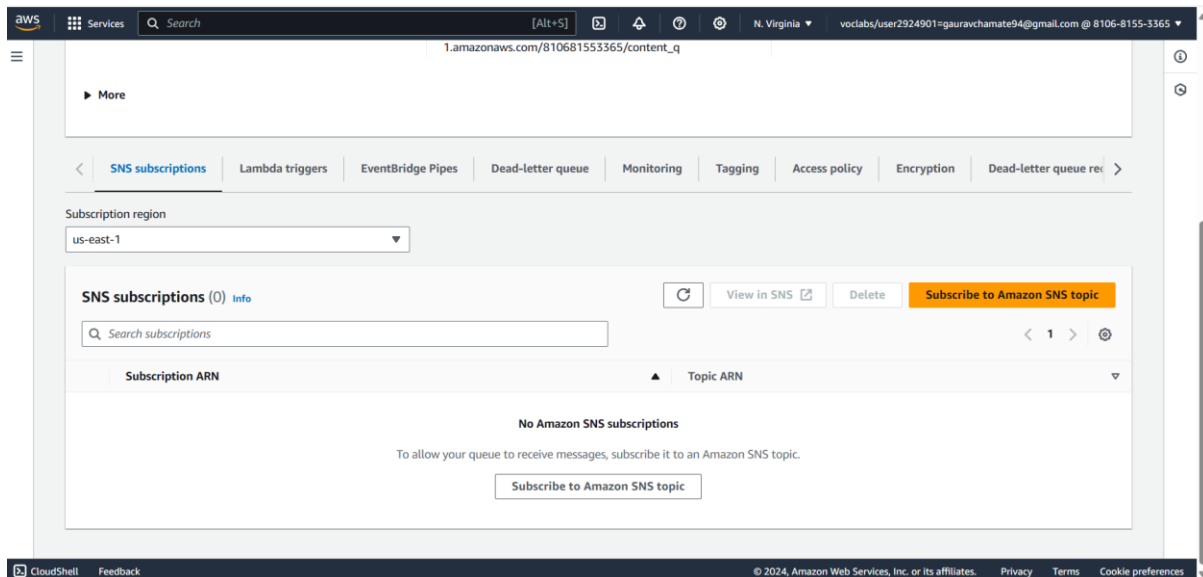
- Visibility timeout:** 10 Seconds. Info: Should be between 0 seconds and 12 hours.
- Message retention period:** 15 Minutes. Info: Should be between 1 minute and 14 days.
- Delivery delay:** 0 Seconds. Info: Should be between 0 seconds and 15 minutes.
- Maximum message size:** 64 KB. Info: Should be between 1 KB and 256 KB.
- Receive message wait time:** 0 Seconds. Info: Should be between 0 and 20 seconds.

The 'Encryption' section is also visible at the bottom, stating: 'Amazon SQS provides in-transit encryption by default. To add at-rest encryption to your queue, enable server-side encryption.'

12. Under the Access policy card select the Advanced radio button for the Choose method option 13. Delete the existing JSON from the text area 14. Paste the updated JSON from the text editor to the text area (which will be blank at this time)

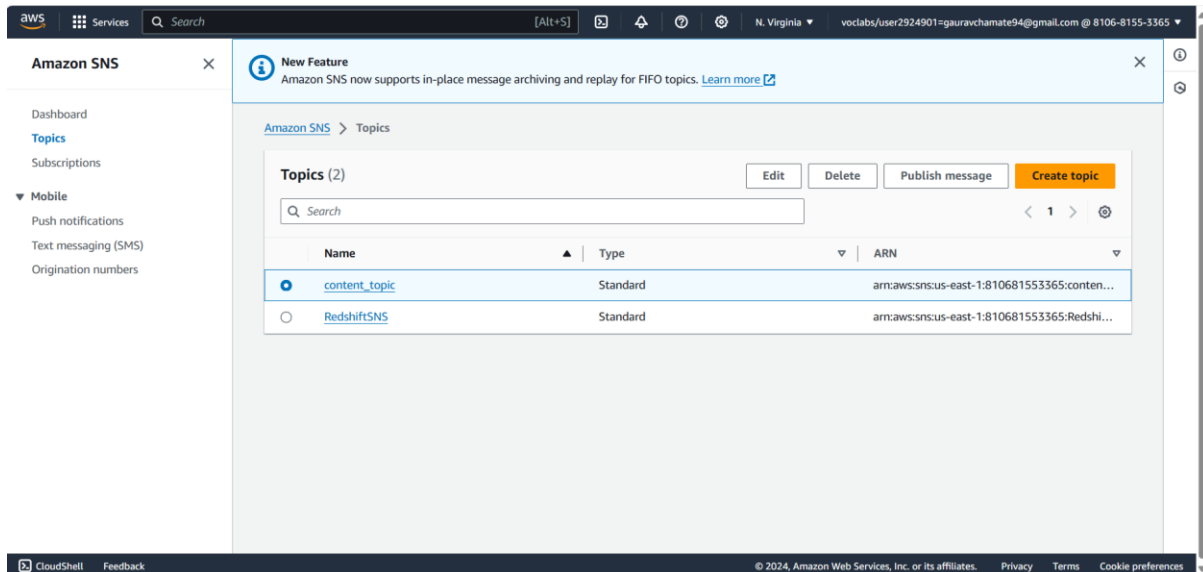


16. In the left navigation click on the (hamburger) menu on the left top of the screen to expand it 17. Click on Queues menu option 18. You will see the queue getting listed here with 0 Messages available 19. Do not close this tab

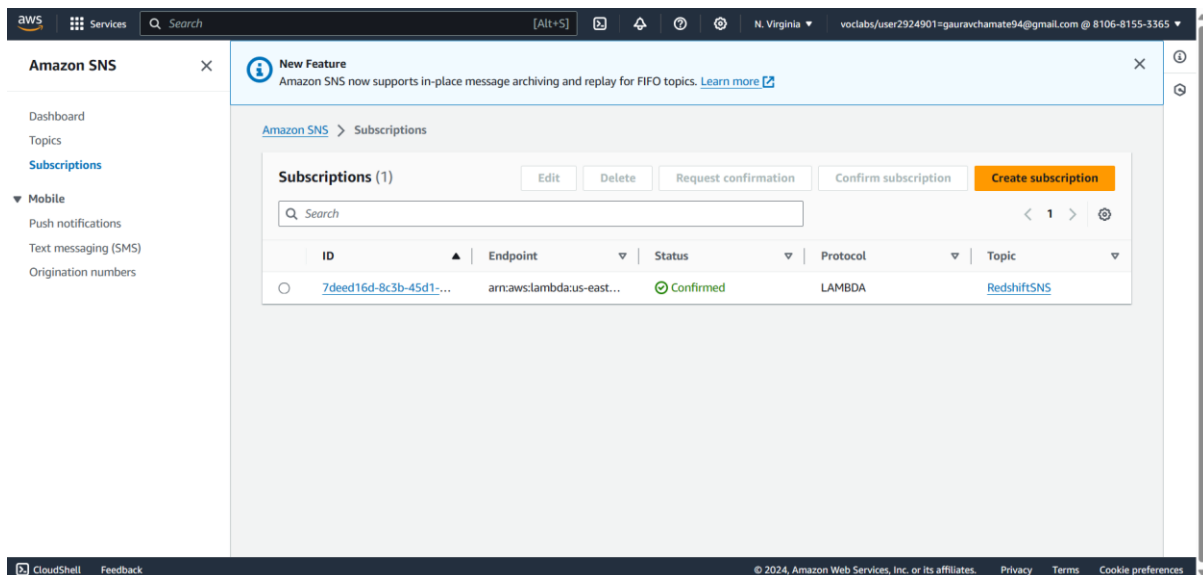


C. Hands-On: Create the subscription (SNS->SQS)

1. Go back to the SNS topic browser tab



2. In the left navigation click on the (hamburger) menu on the left top of the screen to expand it (if needed) 3. You will see the topic listed there, click on the link for content_topic



4. Under the Subscriptions tab (bottom part of the screen), notice the button Create subscription, click it

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Origination numbers

New Feature
Amazon SNS now supports in-place message archiving and replay for FIFO topics. [Learn more](#)

Subscription to content_topic created successfully.
The ARN of the subscription is arn:aws:sns:us-east-1:810681553365:content_topic:a1b88cb8-655a-4e94-b168-7db1e6e2ac4e.

Amazon SNS > Topics > content_topic > Subscription: a1b88cb8-655a-4e94-b168-7db1e6e2ac4e

Subscription: a1b88cb8-655a-4e94-b168-7db1e6e2ac4e

Edit Delete

Details

ARN
arn:aws:sns:us-east-1:810681553365:content_topic:a1b88cb8-655a-4e94-b168-7db1e6e2ac4e

Endpoint
arn:aws:sqs:us-east-1:810681553365:content_q

Topic
[content_topic](#)

Subscription Principal
arn:aws:iam::810681553365:role/voclabs

Status
Confirmed

Protocol
SQS

Raw message delivery
Disabled

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New Feature
Amazon SNS now supports in-place message archiving and replay for FIFO topics. [Learn more](#)

Amazon SNS > Topics

Topics (2)

Edit Delete Publish message Create topic

Search

Name	Type	ARN
<input checked="" type="radio"/> content_topic	Standard	arn:aws:sns:us-east-1:810681553365:content...
<input type="radio"/> RedshiftSNS	Standard	arn:aws:sns:us-east-1:810681553365:Redshi...

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5. Under the Details card make the following changes –

sample

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.

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 sample message
2
```

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a) From the Protocol dropdown select Amazon SQS

1 This is a sample message
2

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	
String	attr1	value1	Remove

[Add another attribute](#)

Cancel [Publish message](#)

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b) Click on the Endpoint search text field and select the arn of the content_q

aws

Services

Search

[Alt+S]

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Amazon SNS

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New Feature

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Message published to topic content_topic successfully.

Message "ID": c79d7863-2bb0-54d2-9e93-2610e48f9ef5

Request "ID": 88205ce5-c794-5ed8-852b-029608ab64ff

Publish another message

Amazon SNS > Topics > content_topic

content_topic

EditDeletePublish message

Details

Name	content_topic	Display name	Content topic
ARN	arn:aws:sns:us-east-1:810681553365:content_topic	Topic owner	810681553365
Type	Standard		

<Subscriptions

Access policy

Data protection policy

Delivery policy (HTTP/S)

Delivery status logging

Encryption

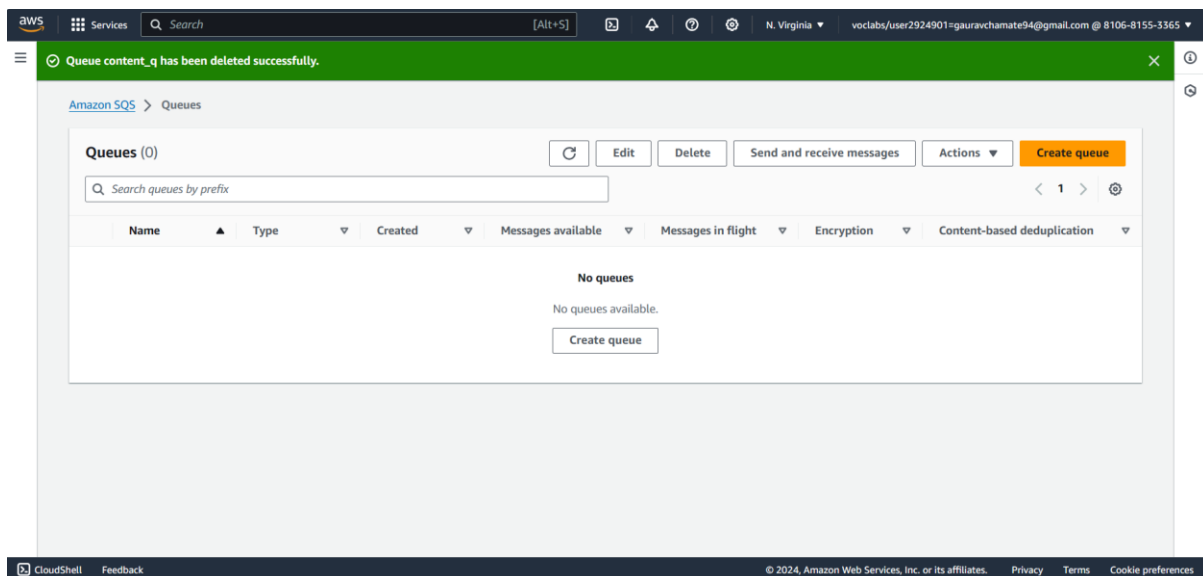
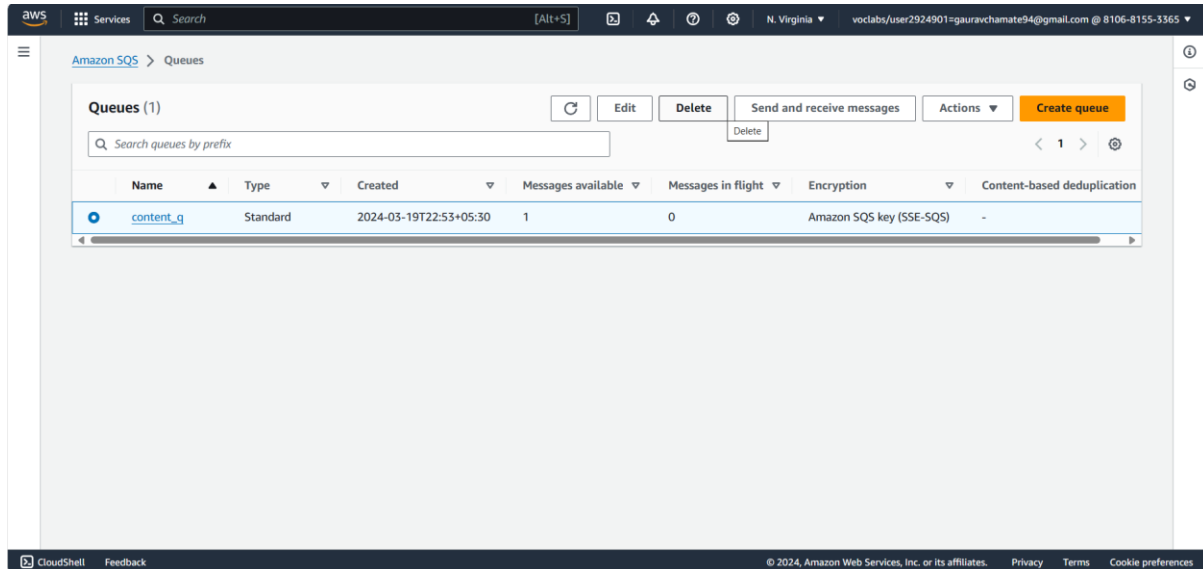
Tag>

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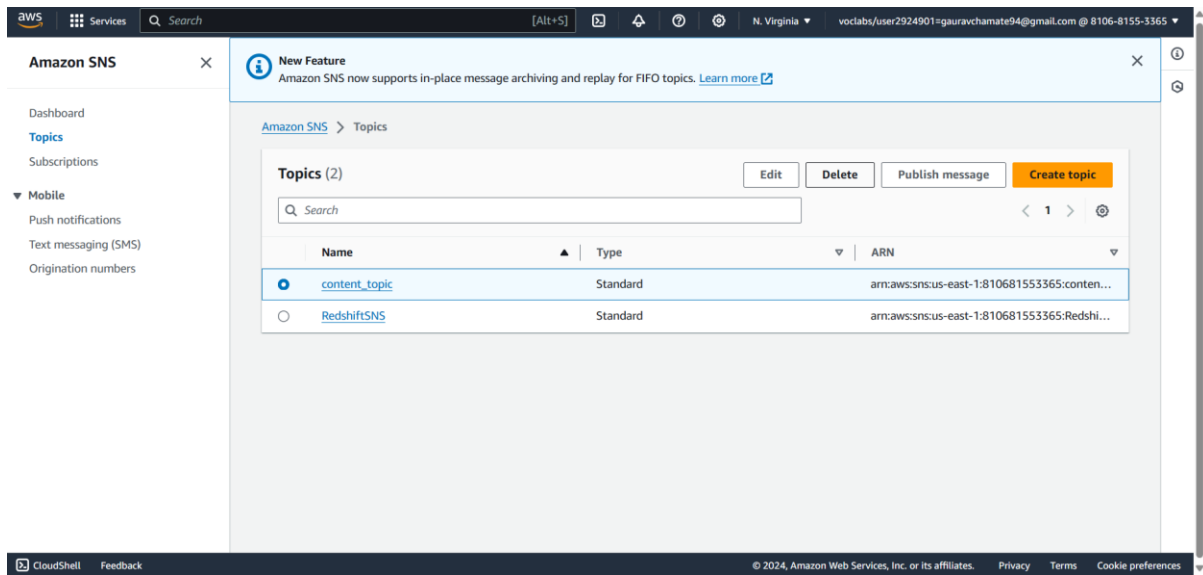
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D. Hands-On: Cleaning up!

1. Go to the SQS management console listing the queues
2. Click on the radio to the left of the content_q and click Delete button from the top right side of the screen



3. Type delete in the confirmation window and click Delete button
4. Go to the SNS management console listing the topics
5. Click on the radio to the left of the content_topic and click Delete button from the top right side of the screen



6. Type delete me in the confirmation window and click Delete button

