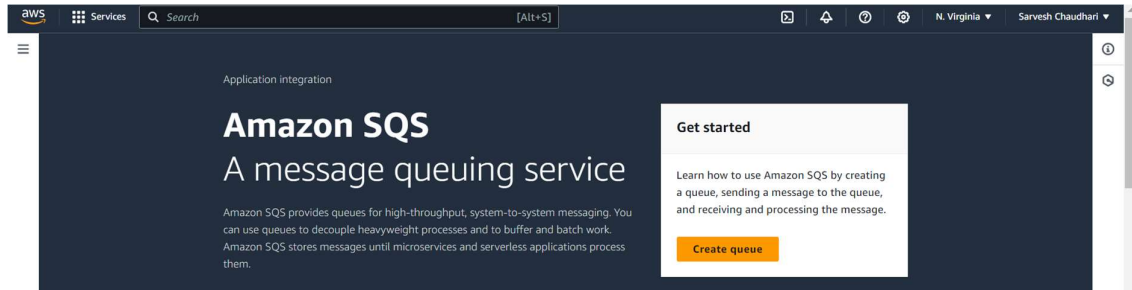


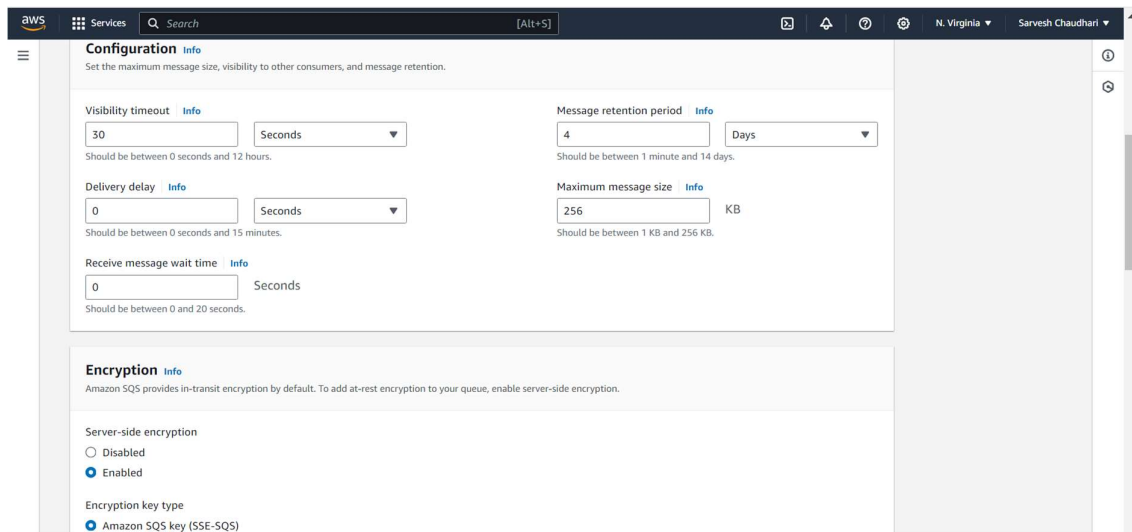
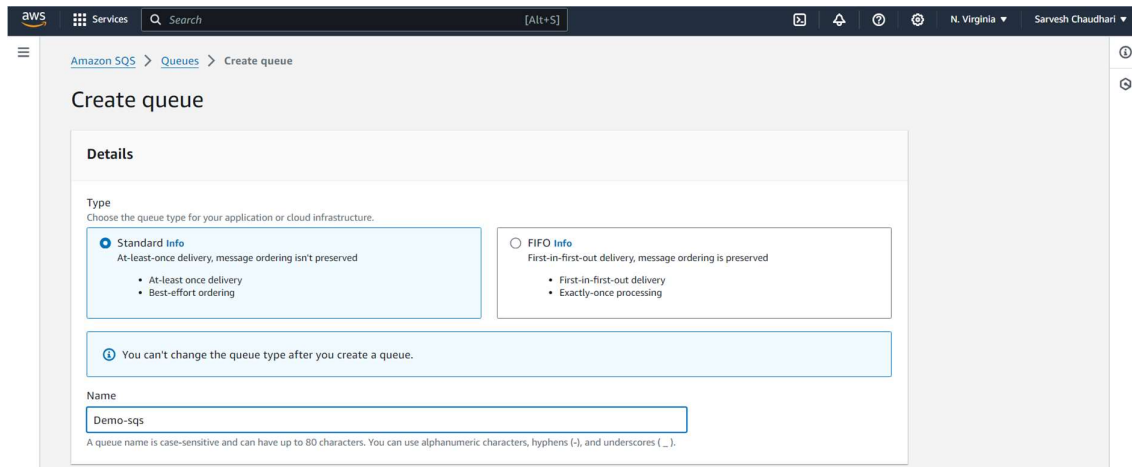
Objective:- SQS and SNS

Steps:-

Create Queue search SQS service



Give name to Queue keep all configuration by default



Access policy [Info](#)

Define who can access your queue.

Choose method

☒ Basic

Use simple criteria to define a basic access policy.

☐ Advanced

Use a JSON object to define an advanced access policy.

Define who can send messages to the queue

☒ Only the queue owner

Only the owner of the queue can send messages to the queue.

☐ Only the specified AWS accounts, IAM users and roles

Only the specified AWS account IDs, IAM users and roles can send messages to the queue.

Define who can receive messages from the queue

☒ Only the queue owner

Only the owner of the queue can receive messages from the queue.

☐ Only the specified AWS accounts, IAM users and roles

Only the specified AWS account IDs, IAM users and roles can receive messages from the queue.

JSON (read-only)

```
{
  "Version": "2012-10-17",
  "Id": "__default_policy_ID",
  "Statement": [
    {
      "Sid": "__owner_statement",
      "Effect": "Allow",
      "Principal": {
        "AWS": "arn:aws:iam::[redacted]:root"
      },
      "Action": [
        "sqs:*"
      ],
      "Resource": "arn:aws:sqs:[redacted]:[redacted]:demo-sqs"
    }
  ]
}
```

aws

Services

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Redrive allow policy - Optional [Info](#)

Identify which source queues can use this queue as the dead-letter queue.

Select which source queues can use this queue as the dead-letter queue.

☒ Disabled

☐ Enabled

Dead-letter queue - Optional [Info](#)

Send undeliverable messages to a dead-letter queue.

Set this queue to receive undeliverable messages.

☒ Disabled

☐ Enabled

Tags - Optional [Info](#)

A tag is a label assigned to an AWS resource. Use tags to search and filter your resources or track your AWS costs.

Key

Value - optional

Remove

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Queue Demo-sqs created successfully

You can now send and receive messages.

Amazon SQS > Queues > Demo-sqs

Edit

Delete

Purge

Send and receive messages

Start DLQ redrive

Details [Info](#)

Name

Demo-sqs

Encryption

Amazon SQS key (SSE-SQS)

Type

Standard

URL

https://sqs.us-east-1.amazonaws.com/[redacted]

ARN

arn:aws:sqs:[redacted]:[redacted]:demo-sqs

Dead-letter queue

-

More

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Amazon SQS > Queues > Demo-sqs > Send and receive messages

Send and receive messages

Send messages to and receive messages from a queue.

Send message [Info](#) Clear content Send message

Message body
Enter the message to send to the queue.

Hello this is 1st msg recieve.

Delivery delay [Info](#)
0 Seconds
Should be between 0 seconds and 15 minutes.

► **Message attributes - Optional** [Info](#)

Click on poll for message

Receive messages [Info](#) Edit poll settings Stop polling Poll for messages

Messages available 0	Polling duration 30	Maximum message count 10	Polling progress 0 receives/second
--------------------------------	-------------------------------	------------------------------------	--

Messages (1) View details Delete

Search messages

Message: 67701cc0-593f-47d4-b66f-293e07ee0074

Body | **Attributes** | **Details**

Hello this is 1st msg recieve.

Done

Now go to Lambda function and create function.

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Lambda > Functions > Create function

Create function Info

Choose one of the following options to create your function.

☐ Author from scratch
Start with a simple Hello World example.

☒ Use a blueprint
Build a Lambda application from sample code and configuration presets for common use cases.

☐ Container image
Select a container image to deploy for your function.

Basic information Info

Blueprint name
Process messages in an SQS queue
An Amazon SQS trigger that logs messages in a queue. nodejs18.x ▼

Function name
Enter a name that describes the purpose of your function.
Myfunction
Use only letters, numbers, hyphens, or underscores with no spaces.

Runtime
nodejs18.x

Architecture
x86_64

aws Services Search [Alt+S] N. Virginia Sarvesh Chaudhari

Runtime
nodejs18.x

Architecture
x86_64

Execution role
Choose a role that defines the permissions of your function. To create a custom role, go to the IAM console [\[?\]](#).

☐ Create a new role with basic Lambda permissions

☐ Use an existing role

☒ Create a new role from AWS policy templates

Role creation might take a few minutes. Please do not delete the role or edit the trust or permissions policies in this role.

Role name
Enter a name for your new role.
SQS_role
Use only letters, numbers, hyphens, or underscores with no spaces.

Policy templates - optional Info
Choose one or more policy templates.

Amazon SQS poller permissions X

SQS

In Trigger select SQS queue.

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SQS trigger Remove

SQS

sqs event-source-mapping polling queue

SQS queue
Choose or enter the ARN of an SQS queue.

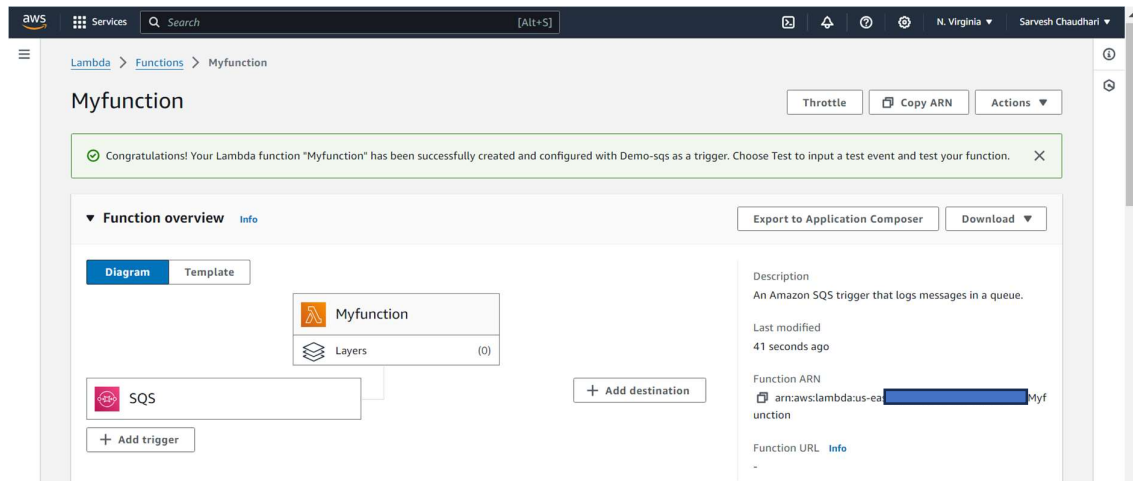
Q arn:aws:sqs:eaemo-sqs

X

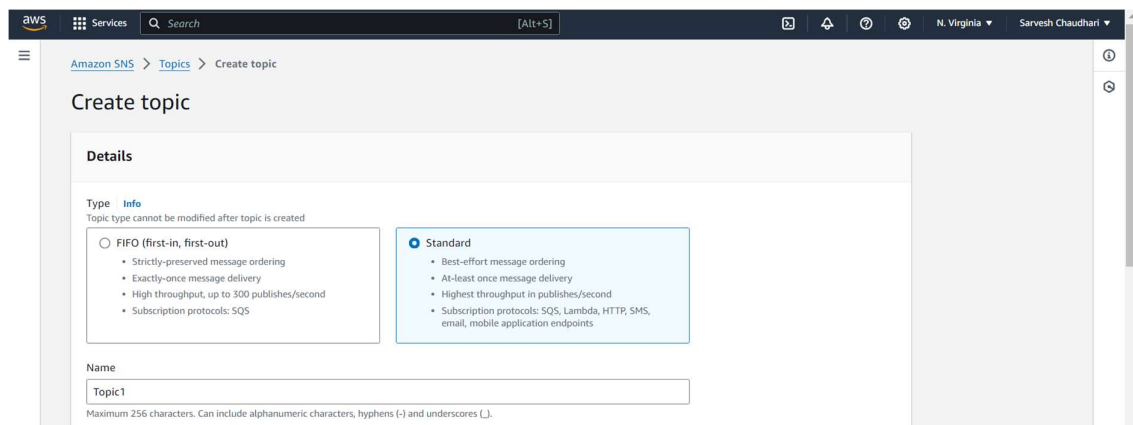
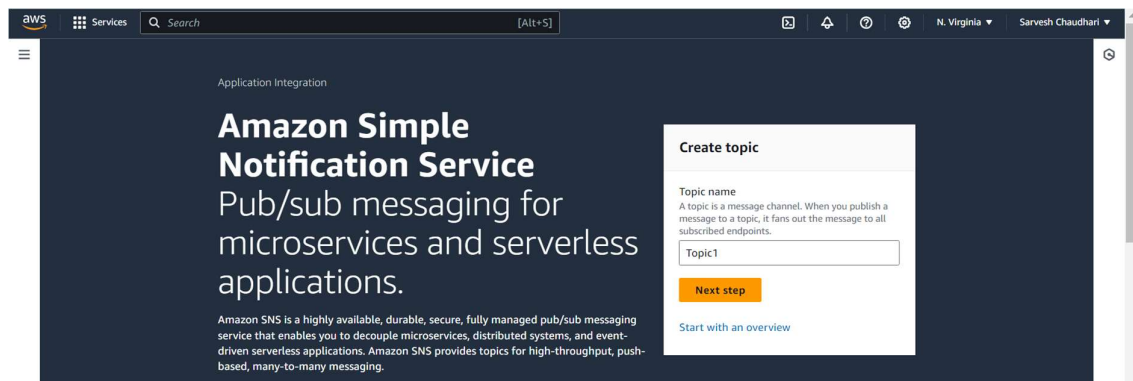
↺

☐ Activate trigger
Select to activate the trigger now. Keep unchecked to create the trigger in a deactivated state for testing (recommended).

Batch size - optional



As function is connected go to SNS



Click on create

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Amazon SNS > Subscriptions > Create subscription

Create subscription

Details

Topic ARN
arn:aws:sns:us-east-1:123456789012:topic1

Protocol
The type of endpoint to subscribe
Email

Endpoint
An email address that can receive notifications from Amazon SNS.
1234567890@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.

Now click on publish msg

aws Services Search [Alt+S] N. Virginia Sarvesh Chaudhari

Amazon SNS > Topics

Topics (1) Edit Delete Publish message Create topic

Search

Name	Type	ARN
Topic1	Standard	arn:aws:sns:us-east-1:123456789012:topic1

aws Services Search [Alt+S] N. Virginia Sarvesh Chaudhari

Amazon SNS > Topics > Topic1 > Publish message

Publish message to topic

Message details

Topic ARN
arn:aws:sns:us-east-1:123456789012:topic1

Subject - *optional*
MyMessage
Maximum 100 printable ASCII characters

Time to Live (TTL) - *optional* [Info](#)

aws Services Search [Alt+S] N. Virginia Sarvesh Chaudhari

Amazon SNS > Topics > Topic1 > Publish message

Publish message to topic

Message body

Message structure

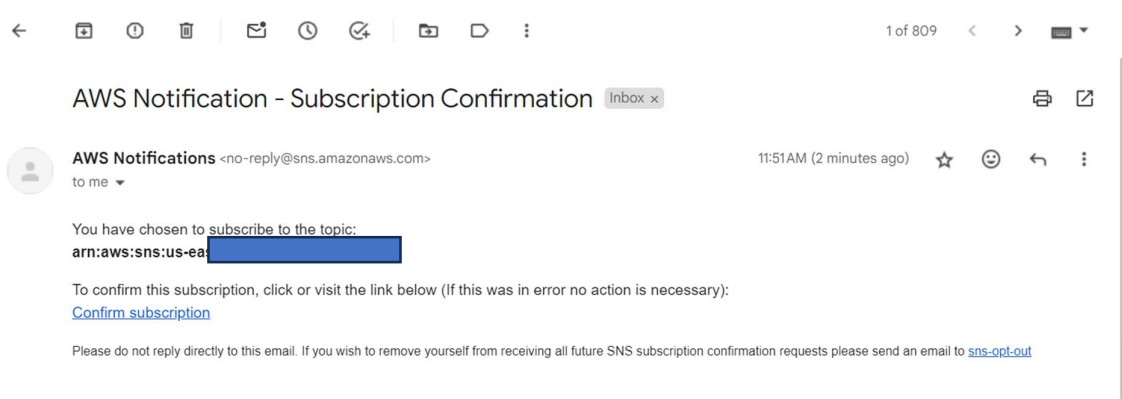
☒ Identical payload for all delivery protocols.
The same payload is sent to endpoints subscribed to the topic, regardless of their delivery protocol.

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

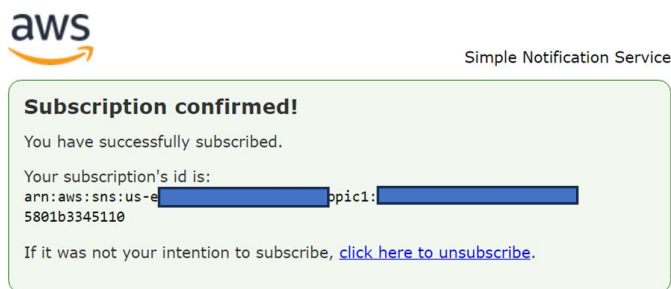
Message body to send to the endpoint

```
1 Hello everyone
```

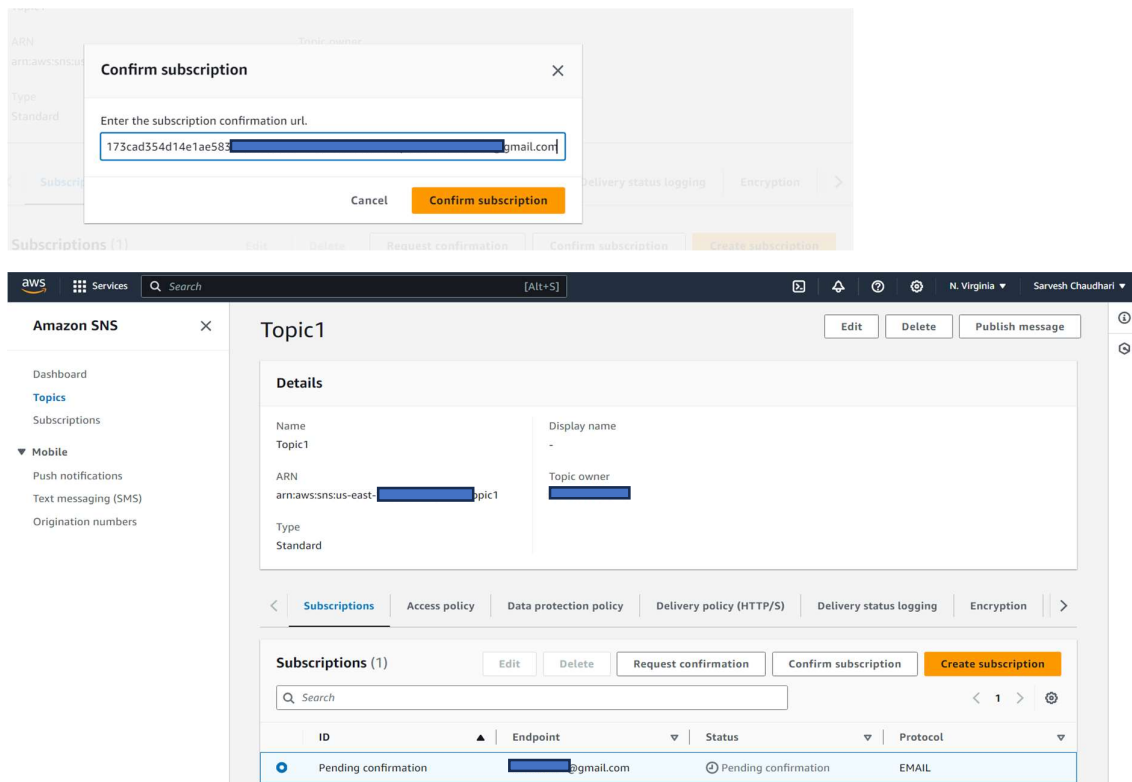
Click on publish message



Confirm subscription



Now confirm subscription



ID	Endpoint	Status	Protocol
563997fd-831d-49cd-943d-5...	[REDACTED]mail.com	Confirmed	EMAIL

Now publish message to subscription

ServicesSearch[Alt+S]

Message details

Topic ARN
arn:aws:sns:us-east-1:123456789012:topic1

Subject - optional
1st subscription mail
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

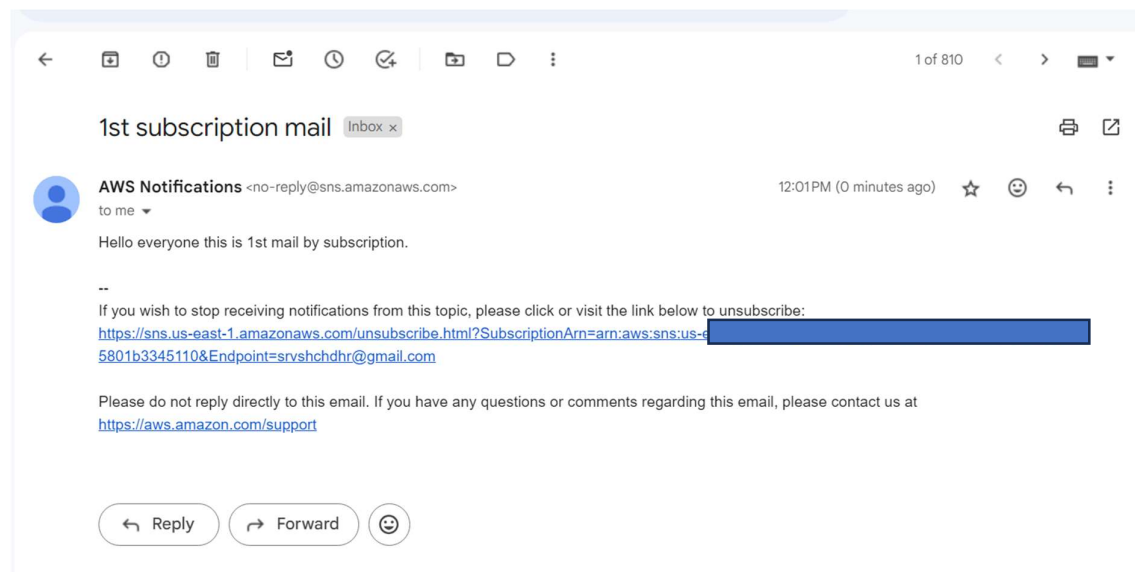
Message structure

☒ 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 Hello everyone this is 1st mail by subscription.
```



Amazon SNS > Topics > Topic2 > Subscription: 2483fd1c-a190-43fb-8a3b-52334088ba59

Subscription: 2483fd1c-a190-43fb-8a3b-52334088ba59 Edit Delete

Details

ARN arn:aws:sns:us-east-1:██████████:52334088ba59	Status ✔ Confirmed
Endpoint arn:aws:sqs:us-east-1:██████████:Demo-sqs	Protocol SQS
Topic Topic2	Raw message delivery Disabled
Subscription Principal arn:aws:iam:██████████:root	

Now publish 4 messages with topic and name

aws Services Search [Alt+S] N. Virginia Sarvesh Chaudhari

Request "ID": 9227698c-54c4-5359-a522-37ee4513005c

✔ Message published to topic Topic2 successfully.
Message "ID": 091e7c3a-da4c-54d7-9b01-2258ce675673
Request "ID": 330a0d7d-886b-584b-8b01-531f9c40daef

Publish another message ×

✔ Message published to topic Topic2 successfully.
Message "ID": 1c6a8729-8c6b-532f-afeb-d94b990df9f3
Request "ID": 4b58912e-cffe-5943-8b1c-cf4cda98d39f

Publish another message ×

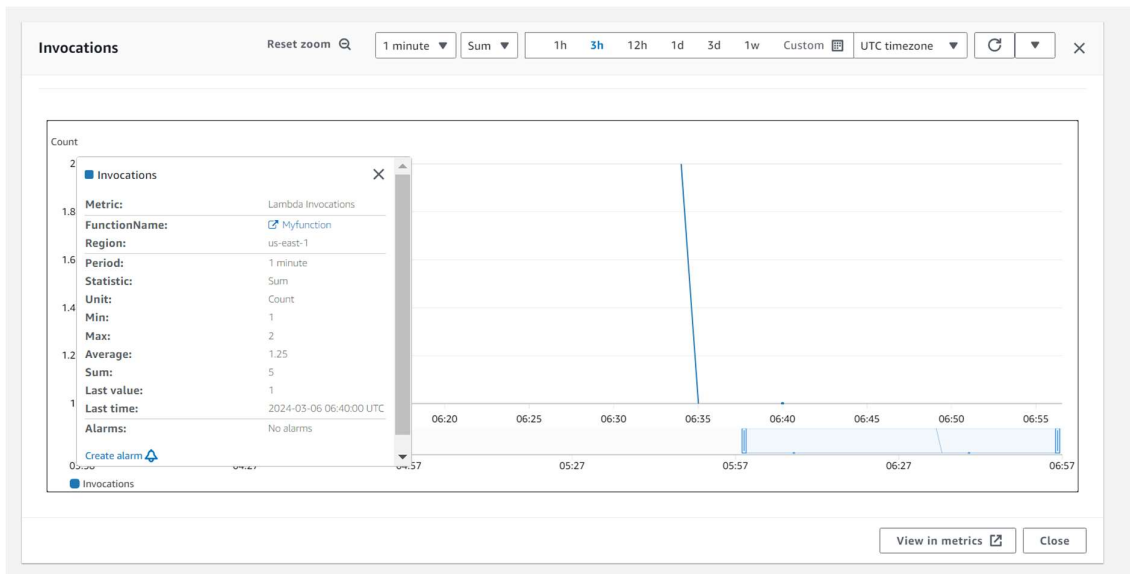
Amazon SNS > Topics > Topic2 > Publish message

Publish message to topic

Message details

Topic ARN arn:aws:sns:us-east-1:██████████:Topic2
Subject - optional <input type="text" value="Message"/> <small>Maximum 100 printable ASCII characters</small>
Time to Live (TTL) - optional Info <small>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.</small>

Go to lambda function in monitor check 1st graph



Configure test event ✕

A test event is a JSON object that mocks the structure of requests emitted by AWS services to invoke a Lambda function. Use it to see the function's invocation result.

To invoke your function without saving an event, configure the JSON event, then choose **Test**.

Test event action

☒ Create new event ☐ Edit saved event

Event name

event1

Maximum of 25 characters consisting of letters, numbers, dots, hyphens and underscores.

Event sharing settings

☒ Private
This event is only available in the Lambda console and to the event creator. You can configure a total of 10. [Learn more](#)

☐ Shareable
This event is available to IAM users within the same account who have permissions to access and use shareable events. [Learn more](#)

Template - optional

sq5-receive-message

Event JSON Format JSON

Cancel Invoke Save