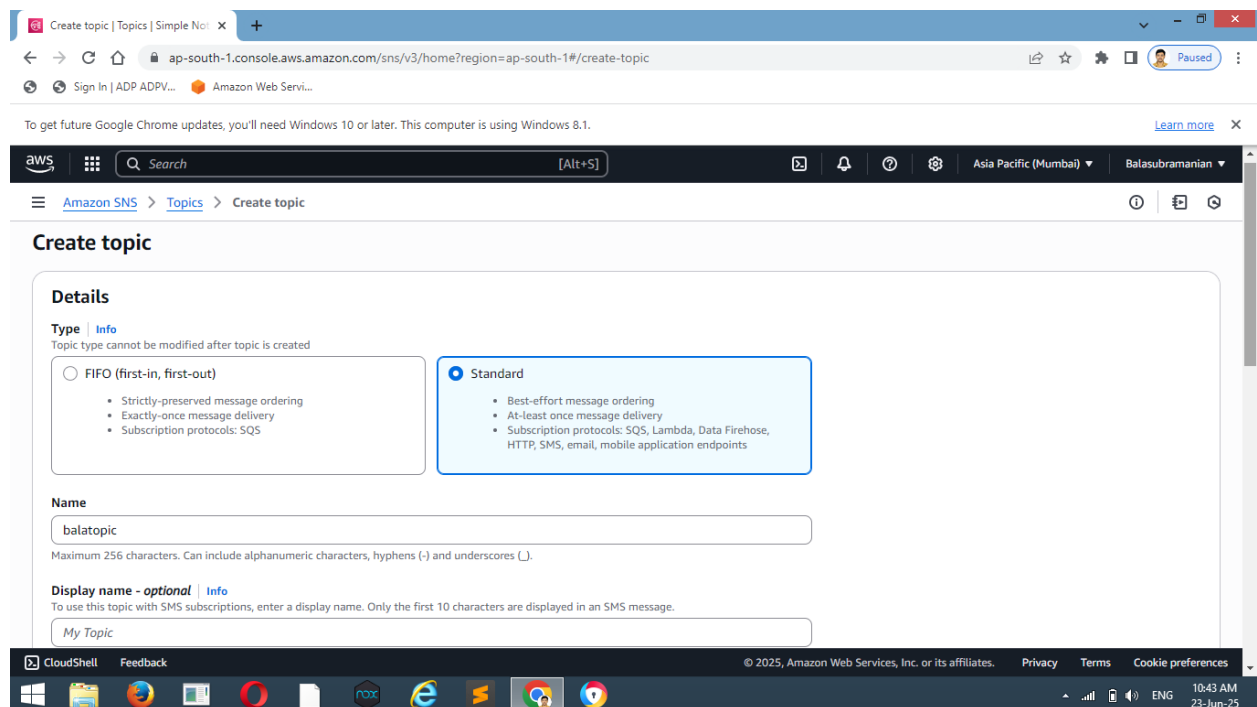
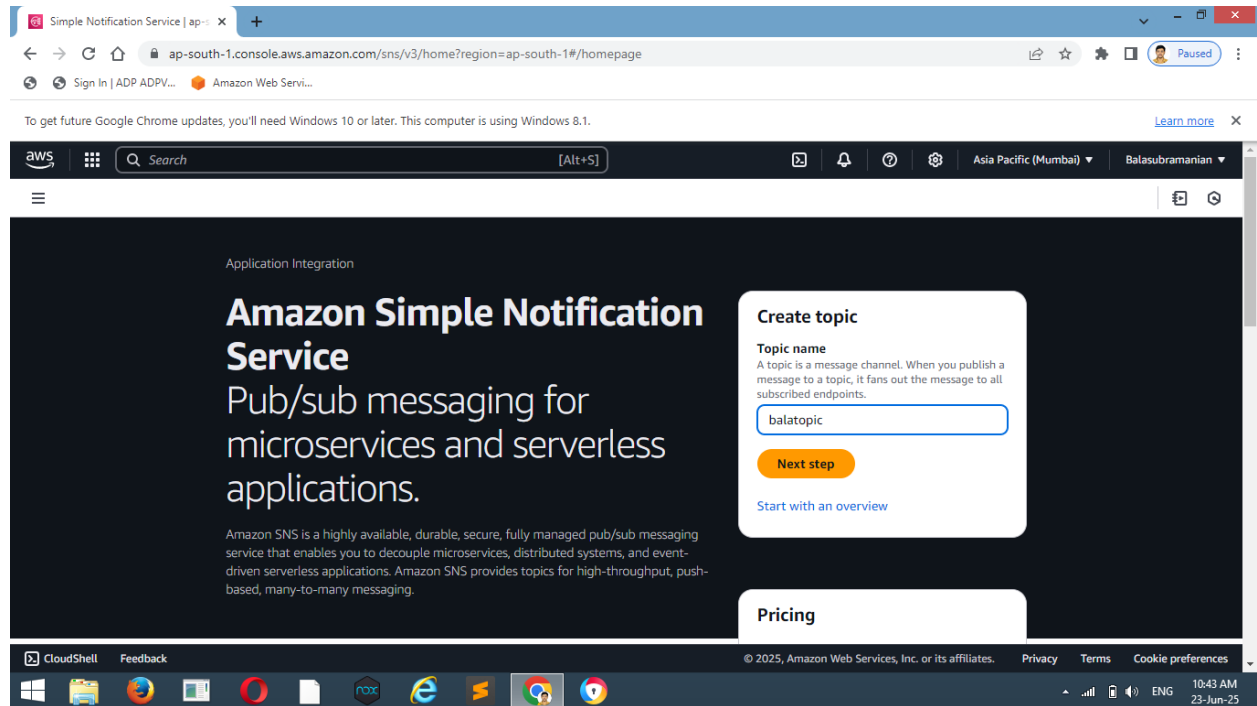
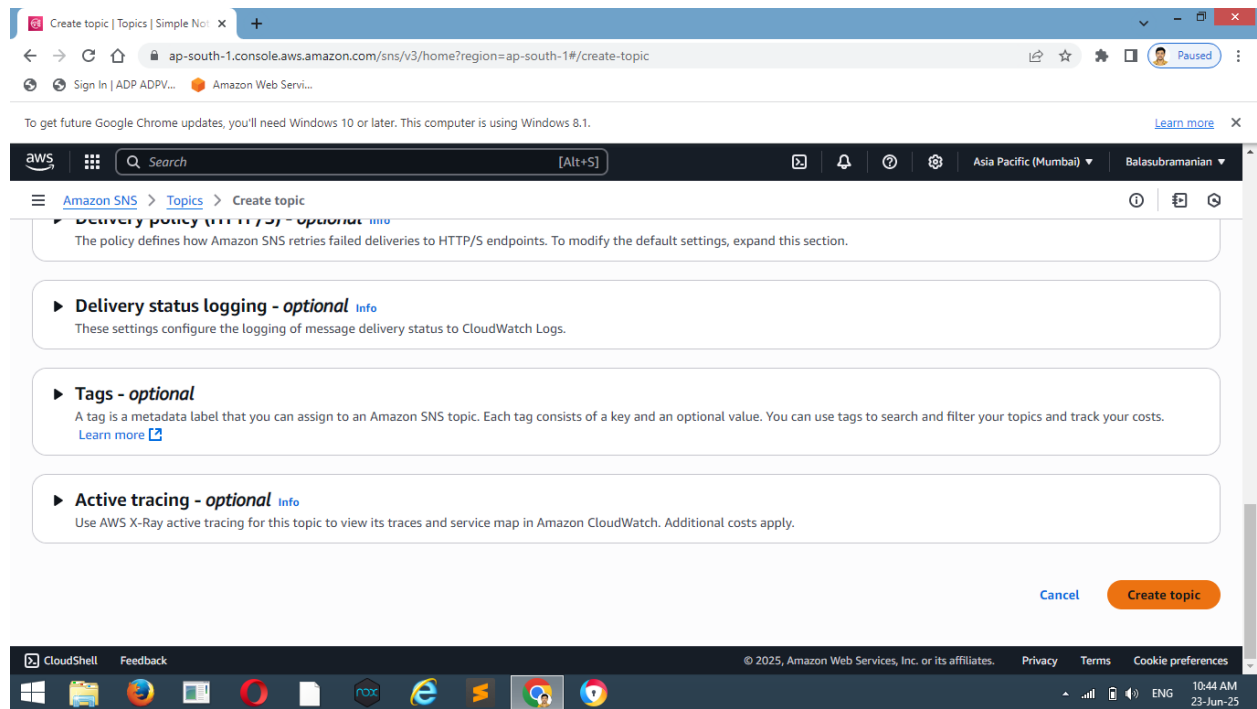


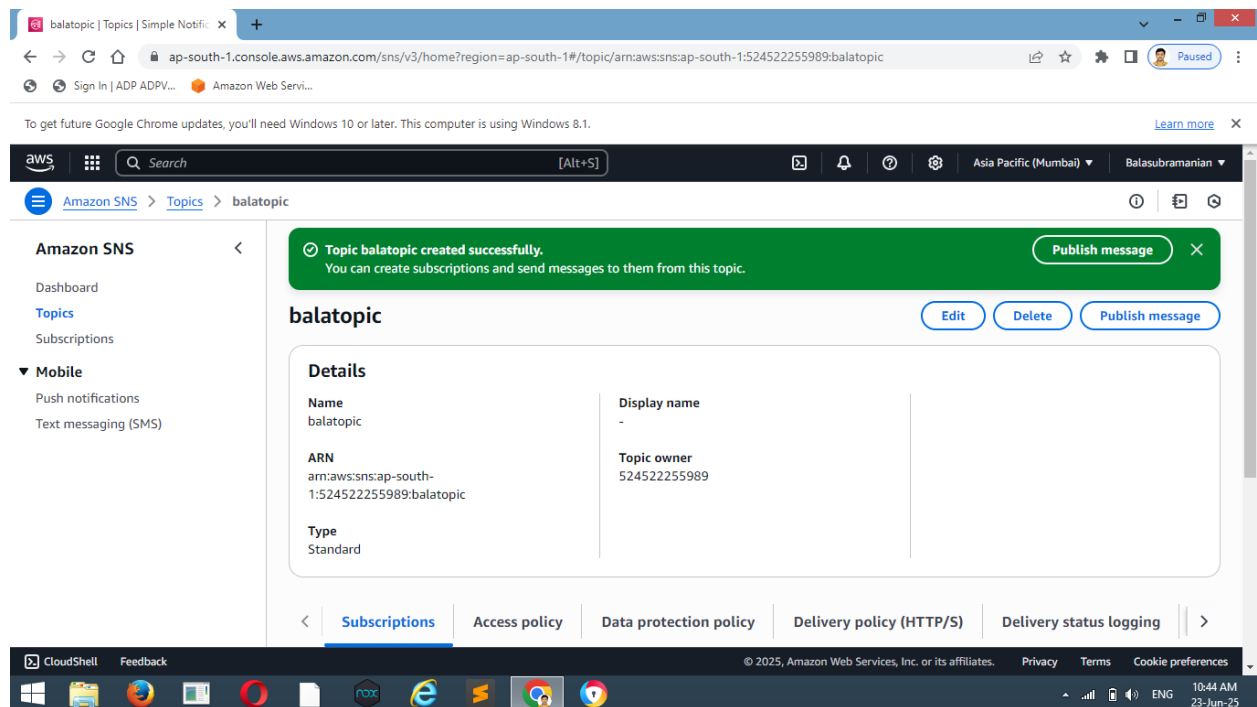
## CREATE SIMPLE NOTIFICATION SERVICE (SNS) AND SIMPLE QUEUE SERVICE (SQS)

### **STEP 1: GO TO SNS AND CREATE TOPIC – I WILL CREATE TOPIC NAME AS “BALATOPIC”**





## STEP 2: TOPIC CREATED SUCCESSFULLY



## STEP 3: CREATE SUBSCRIPTION IN AMAZON SNS

balatopic | Topics | Simple Notific. x

ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/topic/arn:aws:sns:ap-south-1:524522255989:balatopic

Sign In | ADP ADPV... Amazon Web Servi...

To get future Google Chrome updates, you'll need Windows 10 or later. This computer is using Windows 8.1. [Learn more](#)

aws Search [Alt+S]

Amazon SNS > Topics > balatopic

Amazon SNS <

Dashboard

Topics

Subscriptions

▼ Mobile

Push notifications

Text messaging (SMS)

Type  
Standard

< Subscriptions Access policy Data protection policy Delivery policy (HTTP/S) Delivery status logging >

Subscriptions (0) Edit Delete Request confirmation Confirm subscription Create subscription

Search

< 1 > ⚙

| ID  | Endpoint | Status | Protocol |
|---|----------|--------|----------|
| No subscriptions found<br>You don't have any subscriptions to this topic. |          |        |          |

Create subscription

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10:44 AM 23-Jun-25

Create subscription | Subscription x

ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/create-subscription

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aws Search [Alt+S]

Amazon SNS > Subscriptions > Create subscription

## Create subscription

**Details**

**Topic ARN**

am:aws:sns:ap-south-1:524522255989:balatopic

**Protocol**  
The type of endpoint to subscribe

Email-JSON

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

balasubramanian06090@gmail.com

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

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10:46 AM 23-Jun-25

Subscription: ded8c1fd-2aea-426d-873d-f7946159f9d9

ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/subscription/arn:aws:sns:ap-south-1:52452255989:balatopic:ded8c1fd-2aea-426d-873d-f7946159f9d9

To get future Google Chrome updates, you'll need Windows 10 or later. This computer is using Windows 8.1. [Learn more](#)

aws Search [Alt+S]

Amazon SNS > Topics > balatopic > Subscription: ded8c1fd-2aea-426d-873d-f7946159f9d9

Amazon SNS

Dashboard

Topics

Subscriptions

▼ Mobile

Push notifications

Text messaging (SMS)

Subscription to balatopic created successfully.  
The ARN of the subscription is arn:aws:sns:ap-south-1:52452255989:balatopic:ded8c1fd-2aea-426d-873d-f7946159f9d9.

Subscription: ded8c1fd-2aea-426d-873d-f7946159f9d9

Edit Delete

Details

ARN  
arn:aws:sns:ap-south-1:52452255989:balatopic:ded8c1fd-2aea-426d-873d-f7946159f9d9

Endpoint  
balasubramanian06090@gmail.com

Topic  
balatopic

Subscription Principal  
arn:aws:iam::52452255989:root

Status  
Pending confirmation

Protocol  
EMAIL-JSON

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## STEP 4: THEN GO TO SQS AND CREATE QUEUE

Subscriptions | Simple Notification Service

ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/subscriptions

To get future Google Chrome updates, you'll need Windows 10 or later. This computer is using Windows 8.1. [Learn more](#)

aws Search sqs

Amazon SNS

Services

Simple Queue Service  
SQS Managed Message Queues

Service Quotas  
View and manage your AWS service quotas from a central location

Simple Notification Service  
SNS managed message topics for Pub/Sub

Features

SMS  
AWS End User Messaging feature

SQL Server

Were these results helpful?  
Yes No

subscription Create subscription

1

Topic  
balatopic

https://ap-south-1.console.aws.amazon.com/sqs/v3/home?region=ap-south-1

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10:53 AM 23-Jun-25

Subscriptions | Simple Notification... | Simple Queue Service | ap-south-1 | +

ap-south-1.console.aws.amazon.com/sqs/v3/home?region=ap-south-1#/

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aws Search [Alt+S]

Asia Pacific (Mumbai) | Balasubramanian

# Amazon SQS

## A message queuing service

Amazon SQS provides queues for high-throughput, system-to-system messaging. You can use queues to decouple heavyweight processes and to buffer and batch work. Amazon SQS stores messages until microservices and serverless applications process them.

### Get started

Learn how to use Amazon SQS by creating a queue, sending a message to the queue, and receiving and processing the message.

[Create queue](#)

### Pricing (US)

You can get started with Amazon SQS for free. All customers can make 1 million Amazon SQS requests for free each month. Some applications might be able to operate within this Free Tier limit.

[Cost calculator](#)

### How it works

https://ap-south-1.console.aws.amazon.com/sqs/v3/home?region=ap-south-1#/cre...

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Subscriptions | Simple Notification... | Create queue | Simple Queue Ser... | +

ap-south-1.console.aws.amazon.com/sqs/v3/home?region=ap-south-1#/create-queue

Sign In | ADP ADPV... | Amazon Web Servi...

aws Search [Alt+S]

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## Create queue

### Details

Type

Choose the queue type for your application or cloud infrastructure.

☒ **Standard Info**

At-least-once delivery, message ordering isn't preserved

- At-least once delivery
- Best-effort ordering

☐ **FIFO Info**

First-in-first-out delivery, message ordering is preserved

- First-in-first-out delivery
- Exactly-once processing

**Info** You can't change the queue type after you create a queue.

Name

balaqueue

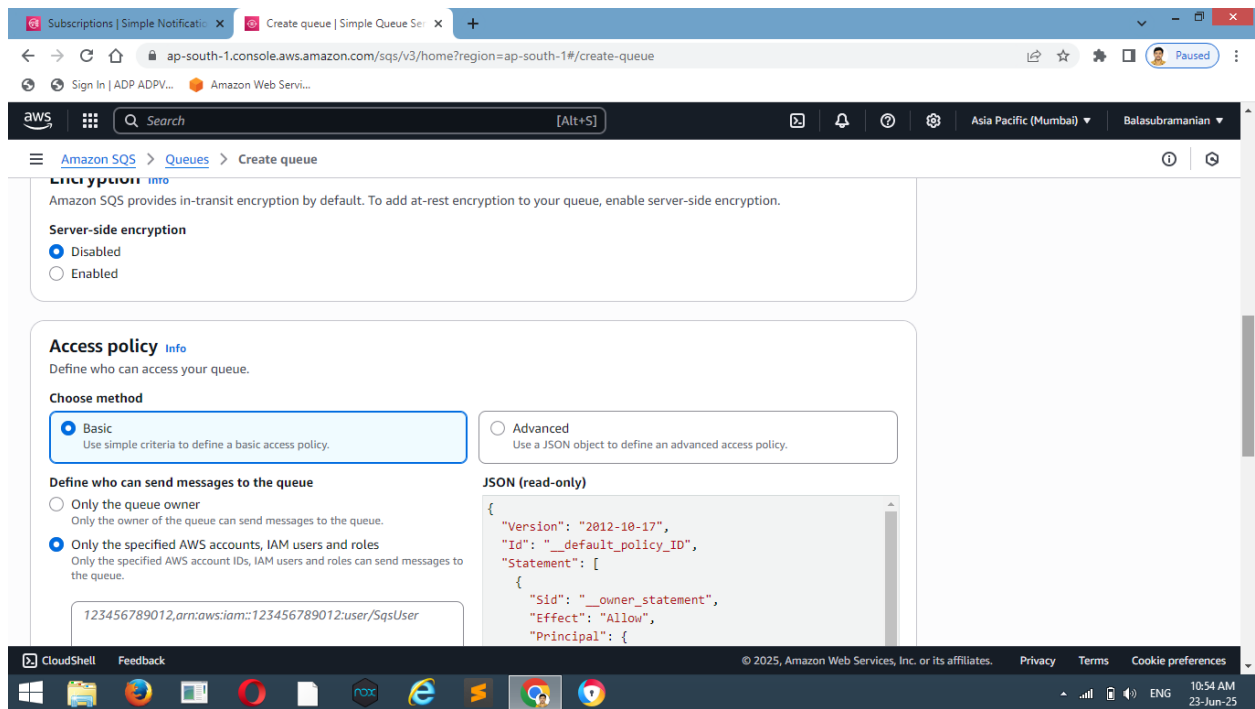
A queue name is case-sensitive and can have up to 80 characters. You can use alphanumeric characters, hyphens (-), and underscores (\_).

### Configuration **Info**

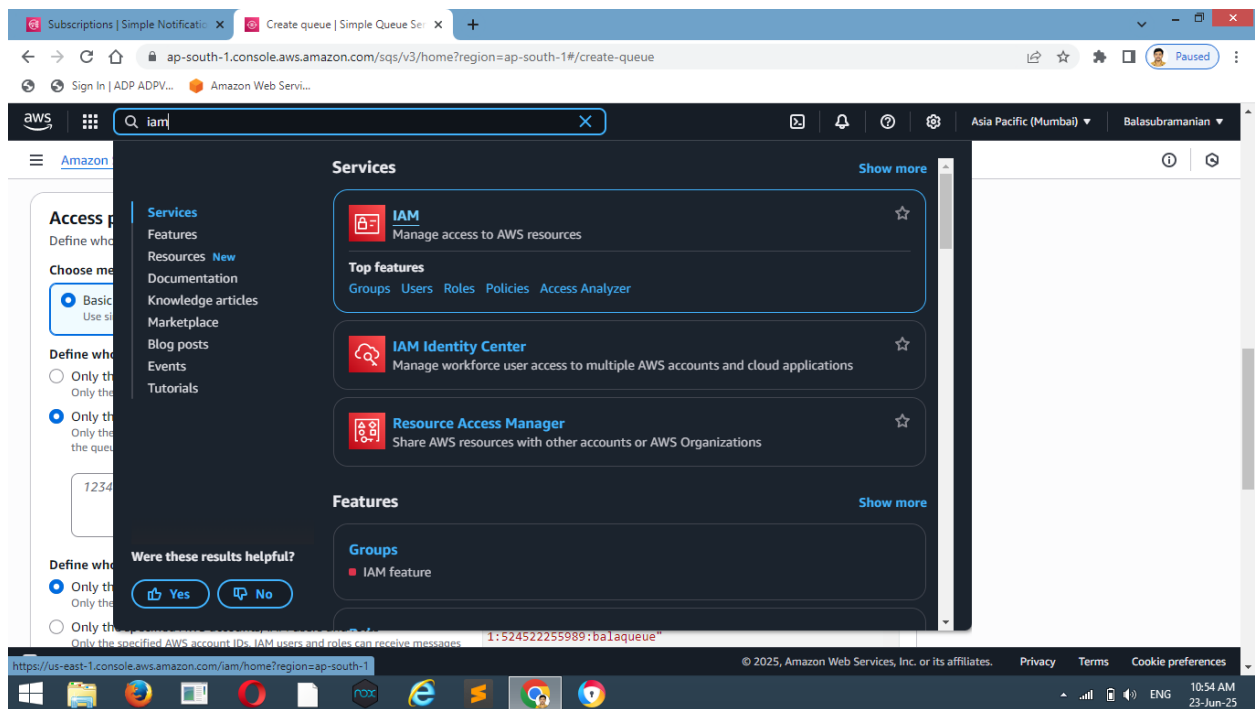
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## STEP 5: NOW CREATE IAM ROLE IN SNS SERVICE FOR ARN URL NEEDS



Subscriptions | Simple Notification... | Create queue | Simple Queue Se... | Dashboard | IAM | Global

us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/home

Sign In | ADP ADPV... | Amazon Web Servi...

aws Search [Alt+S]

Global Balasubramanian

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- Users
- Roles
- Policies
- Identity providers
- Account settings
- Root access management New

Access reports

- Access Analyzer
- Resource analysis New

### IAM Dashboard Info

**Security recommendations 1**

- Add MFA for root user**  
Add MFA for root user - Enable multi-factor authentication (MFA) for the root user to improve security for this account. [Add MFA](#)
- Root user has no active access keys**  
Using access keys attached to an IAM user instead of the root user improves security.

**IAM resources**

Resources in this AWS Account

| User groups | Users | Roles | Policies | Identity providers |
|-------------|-------|-------|----------|--------------------|
| 3           | 2     | 4     | 1        | 0                  |

**AWS Account**

**Account ID**  
524522255989

**Account Alias**  
bala-team [Edit](#) | [Delete](#)

**Sign-in URL for IAM users in this account**  
<https://bala-team.signin.aws.amazon.com/console>

**Quick Links**

[My security credentials](#)

Manage your access keys, multi-factor authentication (MFA) and other credentials.

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Subscriptions | Simple Notification... | Create queue | Simple Queue Se... | Roles | IAM | Global

us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/roles

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aws Search [Alt+S]

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Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- Users
- Roles
- Policies
- Identity providers
- Account settings
- Root access management New

Access reports

- Access Analyzer
- Resource analysis New

### Roles (4) Info

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

Search

| <input type="checkbox"/> | Role name                                       | Trusted entities                     | Last activity  |
|--------------------------|---|--------------------------------------|----------------|
| <input type="checkbox"/> | <a href="#">AWSServiceRoleForRDS</a>            | AWS Service: rds (Service-Linked Rol | 42 minutes ago |
| <input type="checkbox"/> | <a href="#">AWSServiceRoleForSupport</a>        | AWS Service: support (Service-Linker | -              |
| <input type="checkbox"/> | <a href="#">AWSServiceRoleForTrustedAdvisor</a> | AWS Service: trustedadvisor (Service | -              |
| <input type="checkbox"/> | <a href="#">rds-monitoring-role</a>             | AWS Service: monitoring.rds          | -              |

**Roles Anywhere Info**

Authenticate your non AWS workloads and securely provide access to AWS services.

[Manage](#)

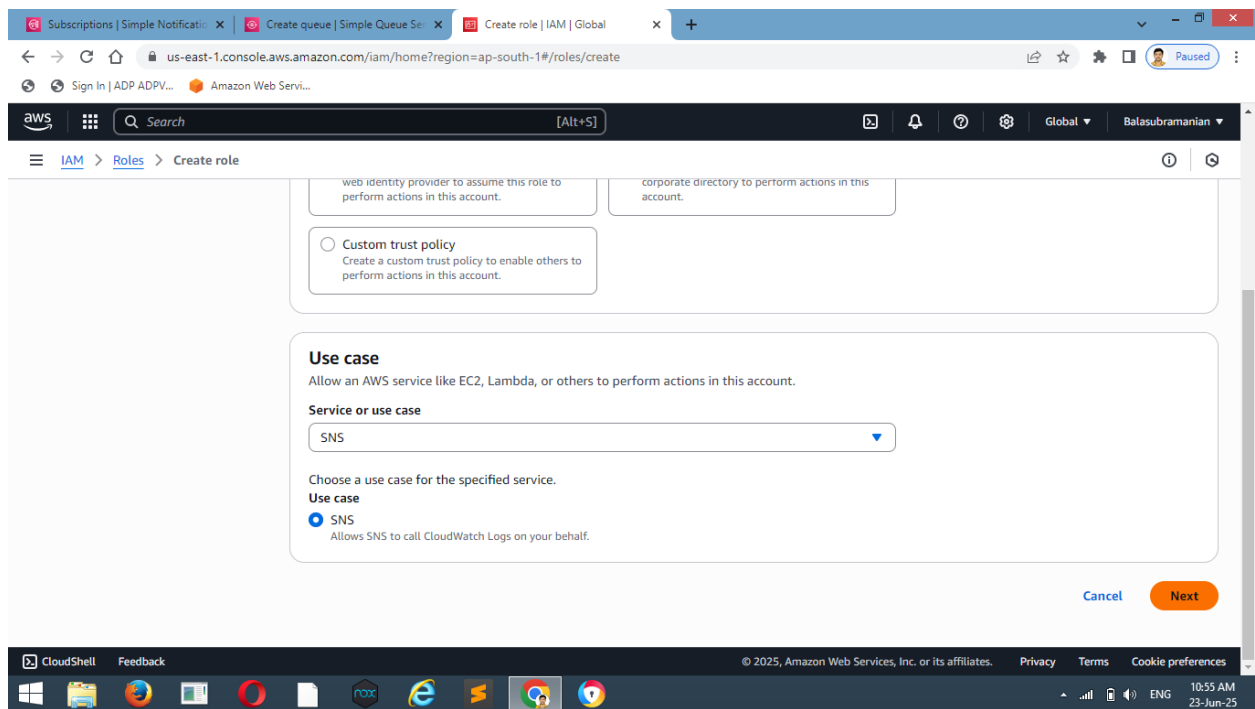
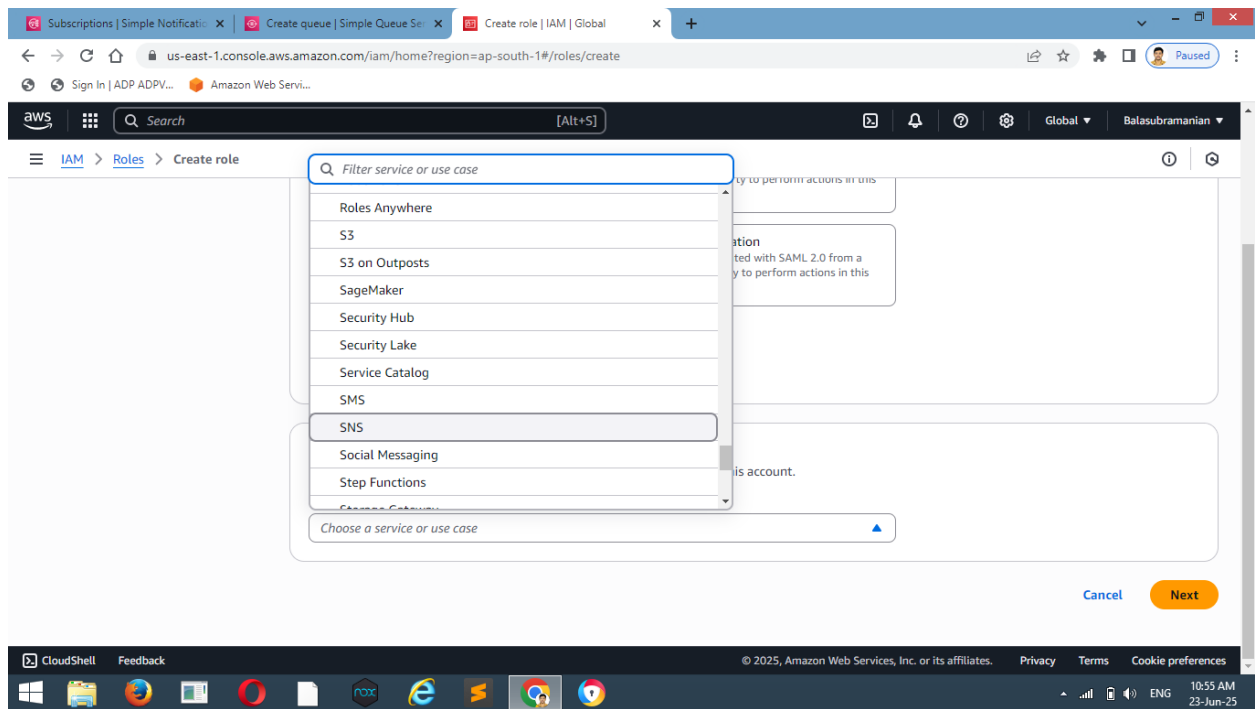
**Access AWS from your non AWS**

**X.509 Standard**

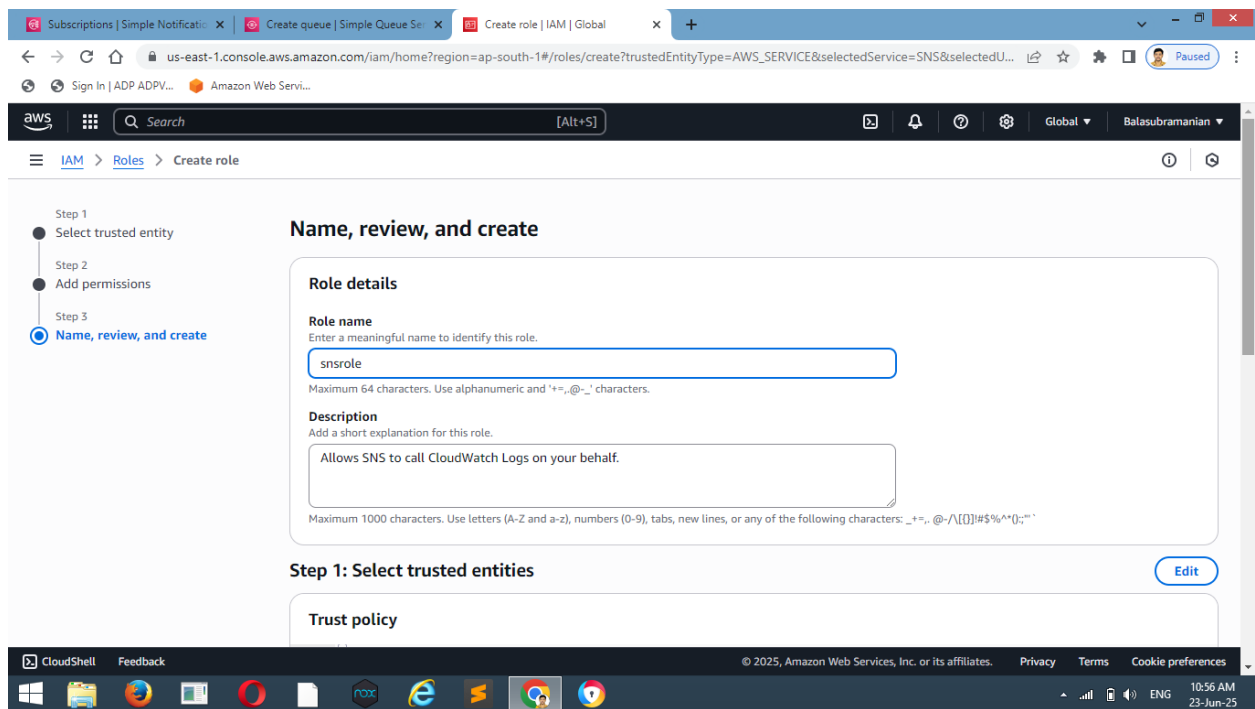
**Temporary credentials**

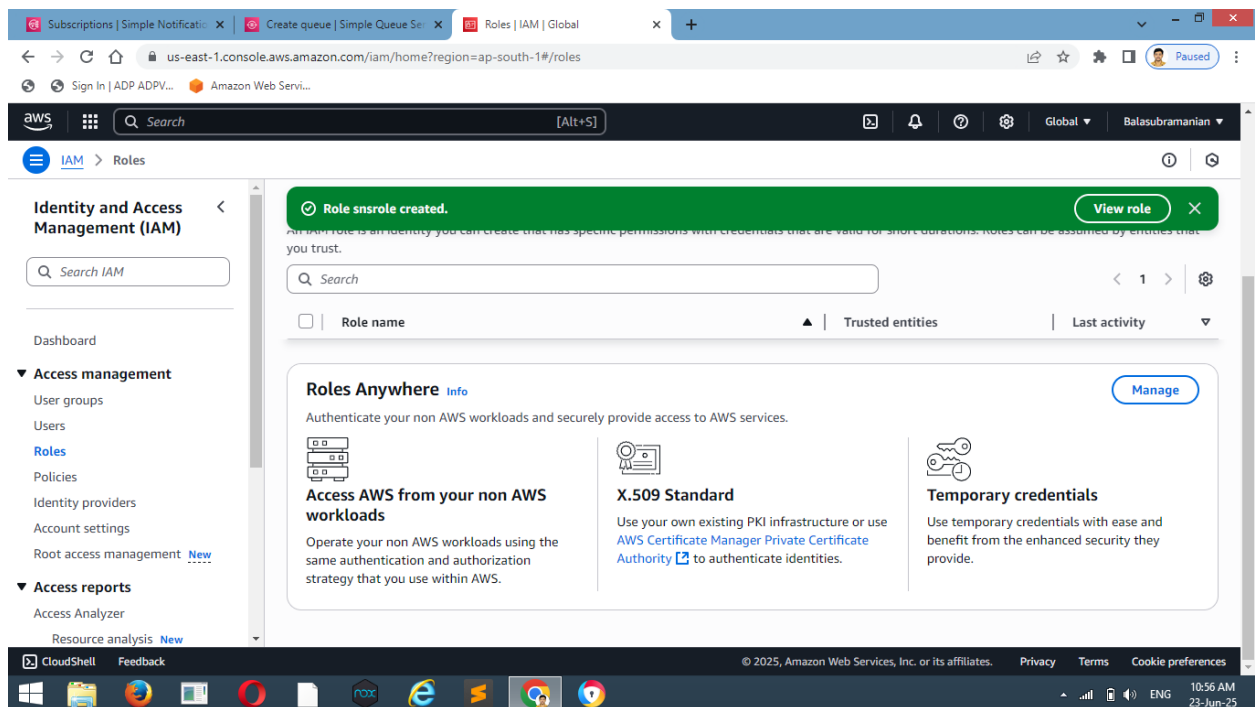
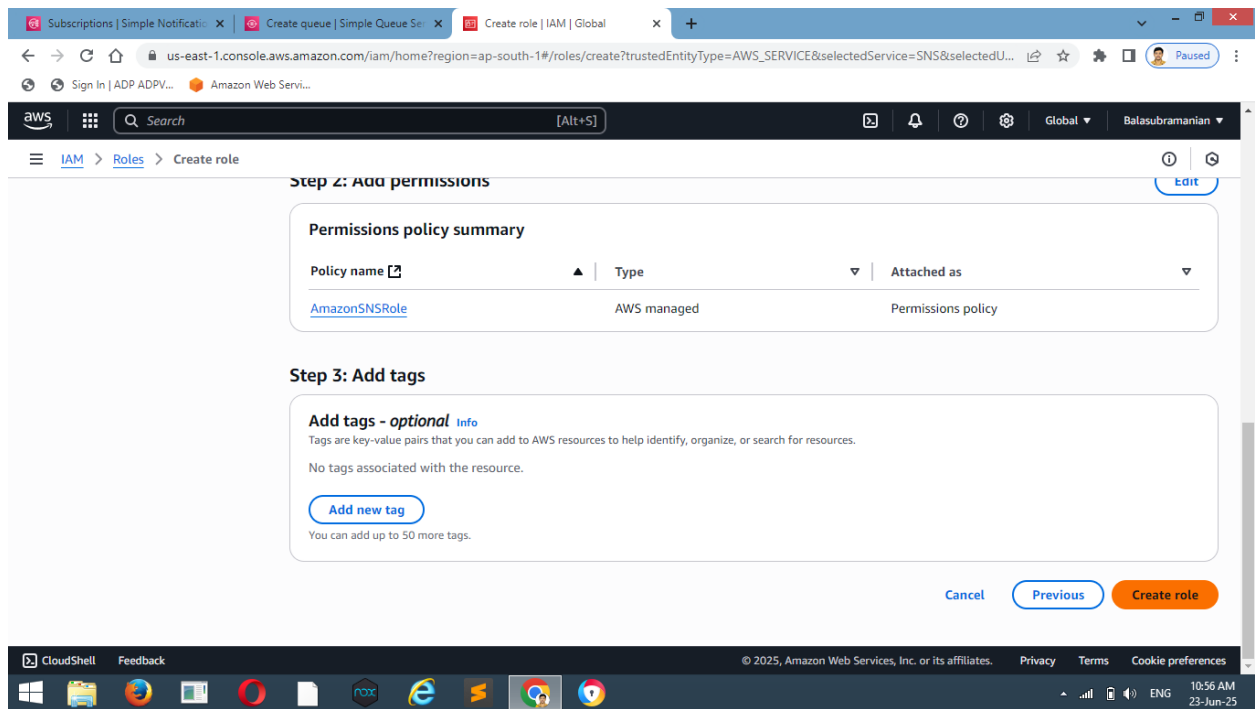
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## STEP 6: COPYING IAM ARN URL IN SNSROLE

Subscriptions | Simple Notifications | Create queue | Simple Queue | snsrole | IAM | Global | snsrole | IAM | Global | snsrole | IAM | Global |

us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/roles/details/snsrole?section=permissions

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aws | Search | [Alt+S] | Global | Balasubramanian

Identity and Access Management (IAM)

Search IAM

Dashboard

▼ Access management

- User groups
- Users
- Roles**
- Policies
- Identity providers
- Account settings
- Root access management **New**

▼ Access reports

- Access Analyzer
- Resource analysis **New**

**snsrole** Info

Allows SNS to call CloudWatch Logs on your behalf.

Summary

Creation date  
June 23, 2025, 10:56 (UTC+05:30)

Last activity  
-

Maximum session duration  
1 hour

ARN copied  
arn:aws:iam::524522255989:role/snsrole

Permissions | Trust relationships | Tags | Last Accessed | Revoke sessions

Permissions policies (1) Info

You can attach up to 10 managed policies.

Search

Filter by Type  
All types

Policy name | Type | Attached entities

CloudShell | Feedback

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## STEP 7: GO TO SQS AND PASTE IT AND CREATE SQS QUEUE

Subscriptions | Simple Notifications | Create queue | Simple Queue | snsrole | IAM | Global | snsrole | IAM | Global | snsrole | IAM | Global |

ap-south-1.console.aws.amazon.com/sqs/v3/home?region=ap-south-1#/create-queue

Sign In | ADP ADPV... | Amazon Web Servi...

aws | Search | iam | Asia Pacific (Mumbai) | Balasubramanian

Amazon SQS | Queues | Create 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.

arn:aws:iam::524522255989:role/snsrole

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)

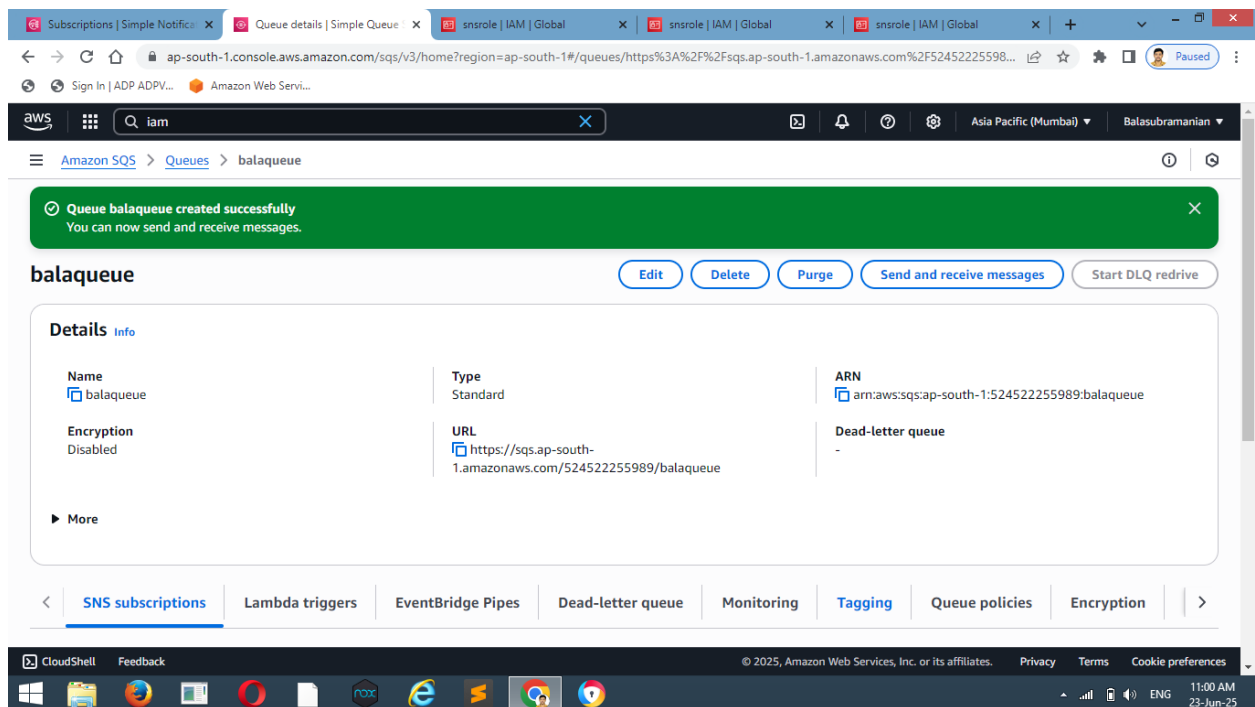
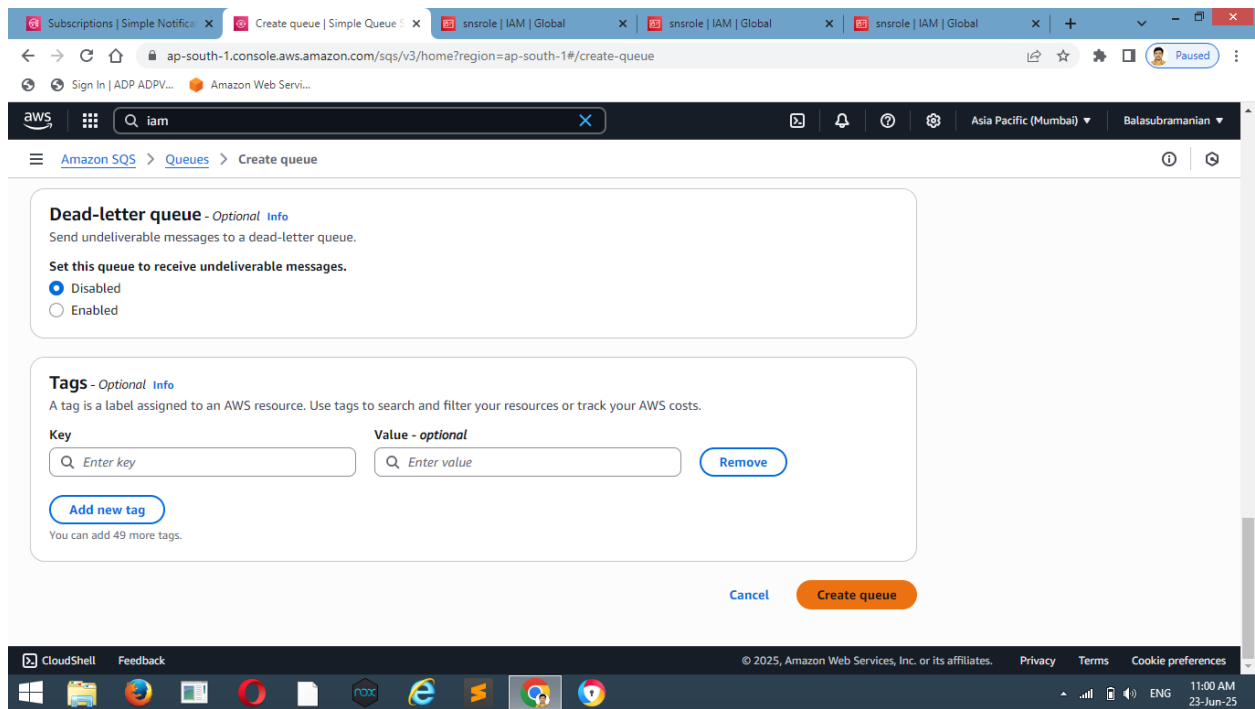
```
{
  "Version": "2012-10-17",
  "Id": "__default_policy_ID",
  "Statement": [
    {
      "Sid": "__owner_statement",
      "Effect": "Allow",
      "Principal": {
        "AWS": "524522255989"
      },
      "Action": [
        "SQS:*"
      ],
      "Resource": "arn:aws:sqs:ap-south-1:524522255989:balaqueue"
    }
  ]
}
```

Redrive allow policy. Optional. Info

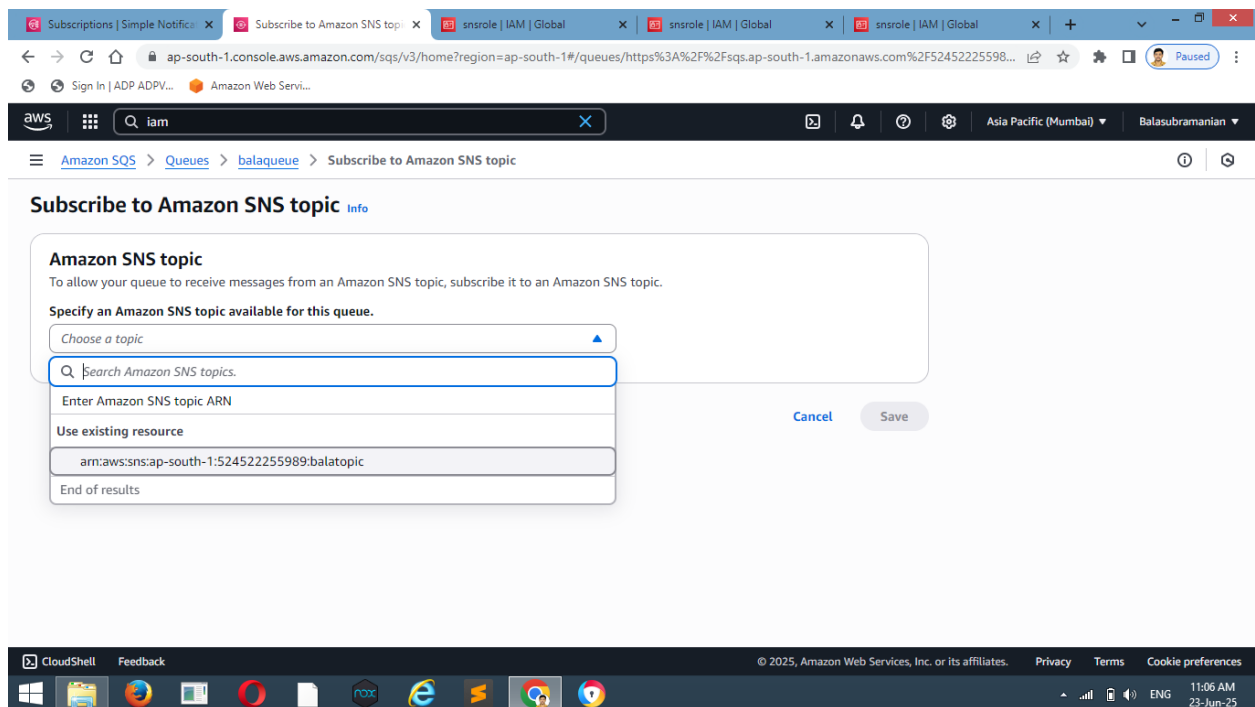
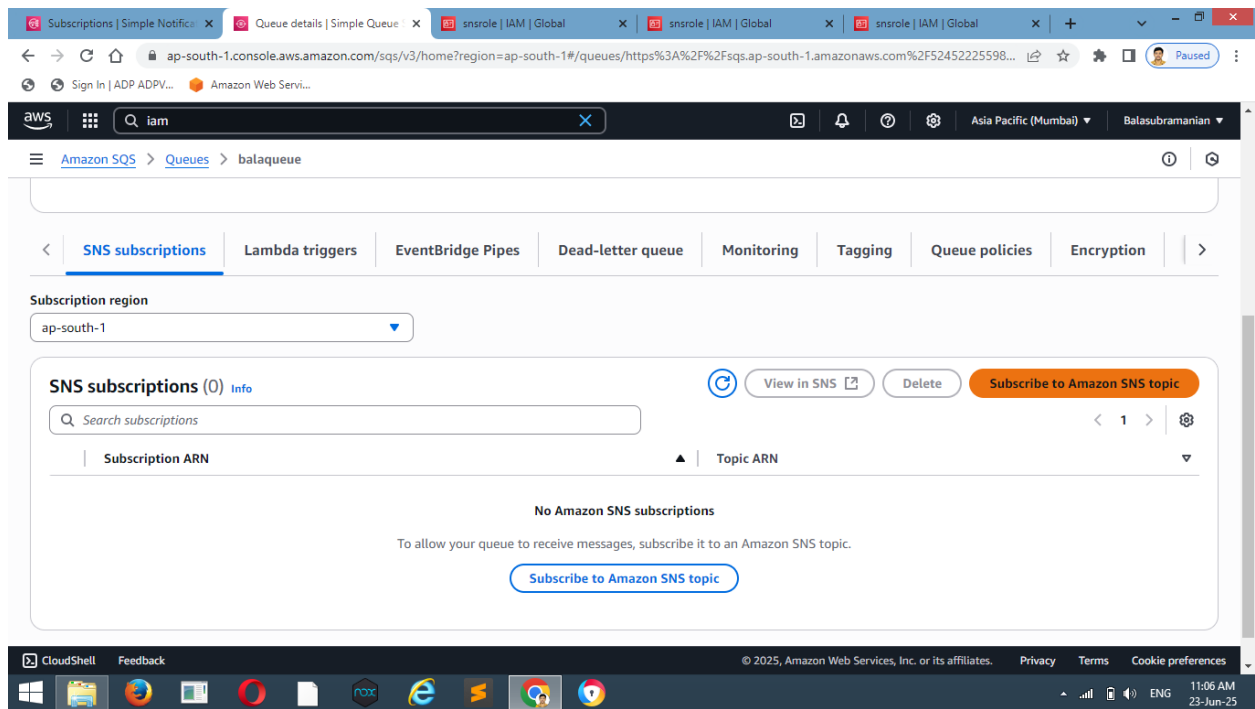
CloudShell | Feedback

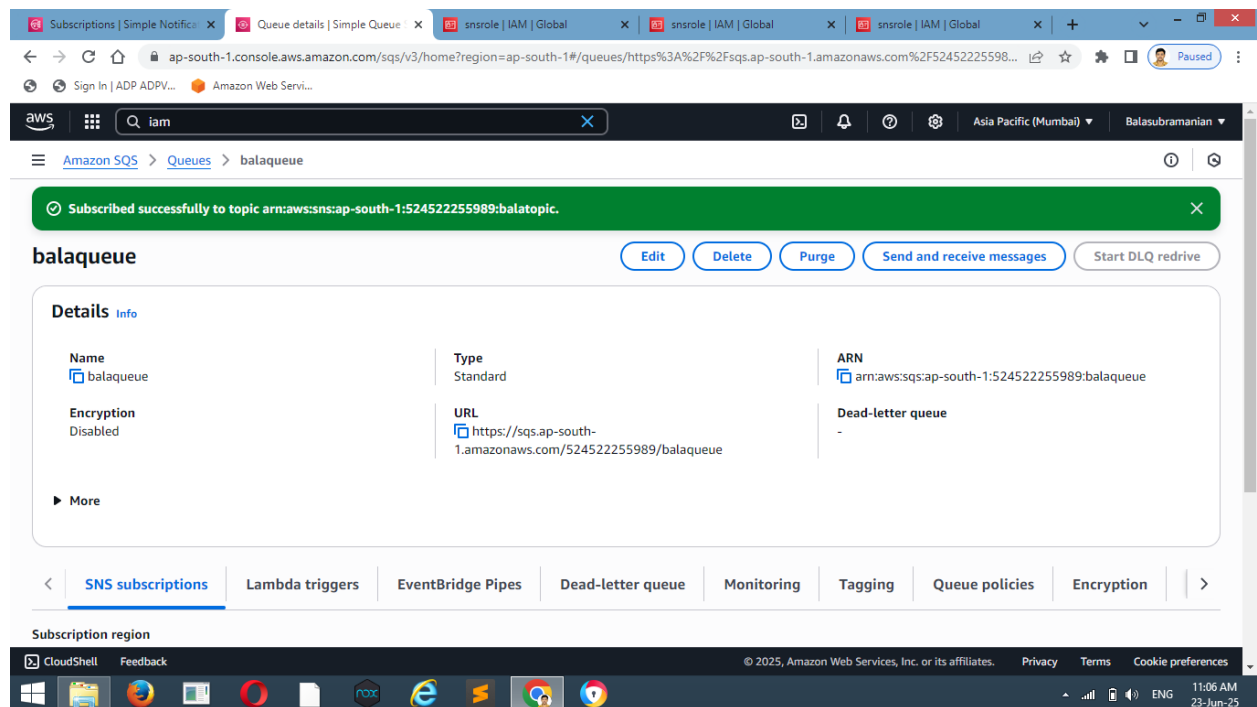
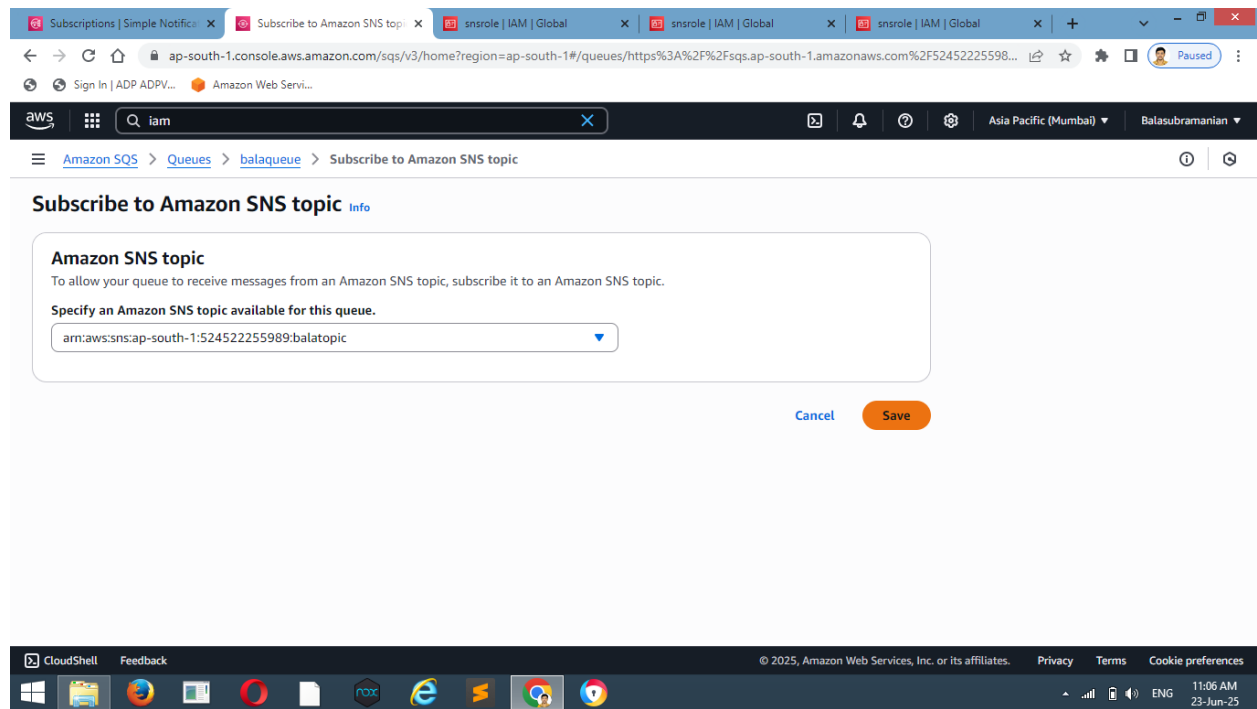
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## STEP 8: IN AMAZON SQS – SUBSCRIBE TO AMAZON SNS TOPIC





**STEP 9: PUBLISH MESSAGE IN AMAZON SNS TOPIC - I WILL PUBLISH MESSAGE AS “WELCOME TO OUR COMPANY”. THIS MESSAGE IS RECEIVED IN SQS AND ALSO EMAIL WILL CHECK IT.**

balatopic | Topics | Simple Not | Queue details | Simple Queue | snsrole | IAM | Global | snsrole | IAM | Global | snsrole | IAM | Global

ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/topic/arn:aws:sns:ap-south-1:524522255989:balatopic

Sign In | ADP ADPV... | Amazon Web Servi...

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aws sqs Asia Pacific (Mumbai) Balasubramanian

Amazon SNS > Topics > balatopic

Amazon SNS

- Dashboard
- Topics
- Subscriptions
- ▼ Mobile
  - Push notifications
  - Text messaging (SMS)

## balatopic

Edit Delete Publish message

### Details

|  |                             |
|--|-----------------------------|
| Name<br>balatopic                                    | Display name<br>-           |
| ARN<br>arn:aws:sns:ap-south-1:524522255989:balatopic | Topic owner<br>524522255989 |
| Type<br>Standard                                     |                             |

< Subscriptions Access policy Data protection policy Delivery policy (HTTP/S) Delivery status logging >

### Subscriptions (2)

Edit Delete Request confirmation Confirm subscription Create subscription

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Publish message | balatopic | T | Queue details | Simple Queue | snsrole | IAM | Global | snsrole | IAM | Global | snsrole | IAM | Global

ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/publish/topic/arn:aws:sns:ap-south-1:524522255989:balatopic

Sign In | ADP ADPV... | Amazon Web Servi...

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aws sqs Asia Pacific (Mumbai) Balasubramanian

Amazon SNS > Topics > balatopic > Publish message

### Message details

Topic ARN  
arn:aws:sns:ap-south-1:524522255989:balatopic

Subject - optional  
msg  
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

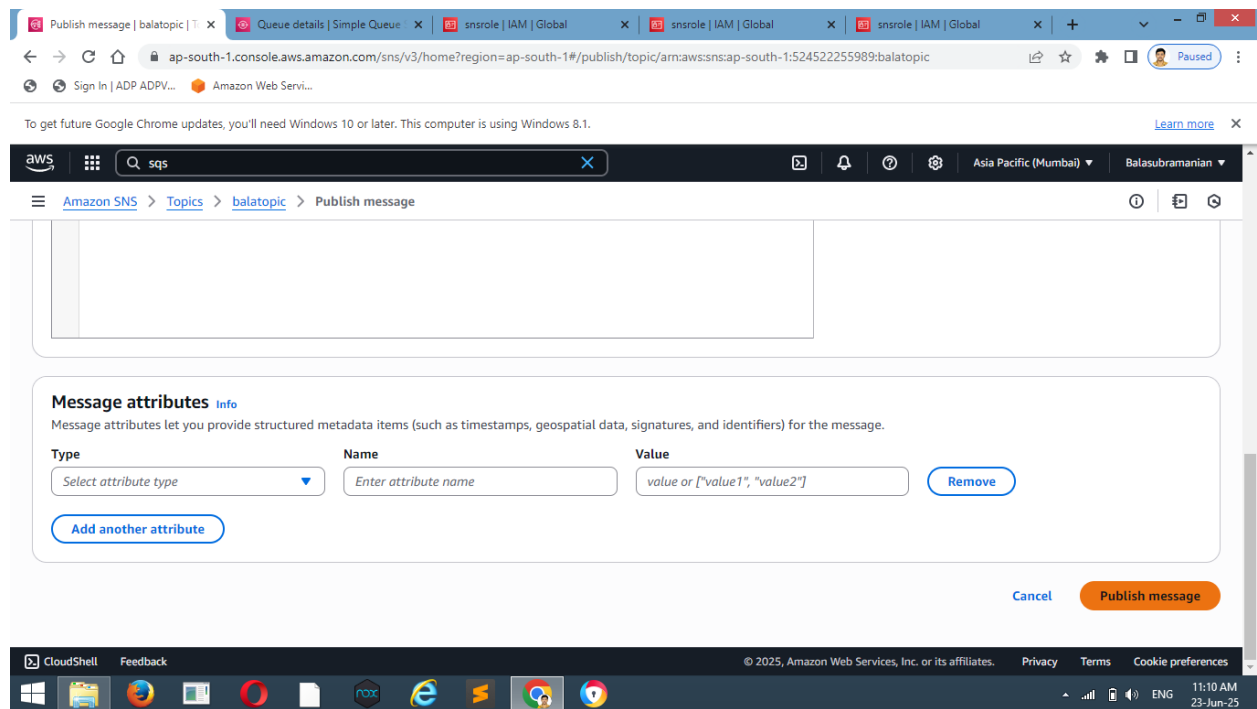
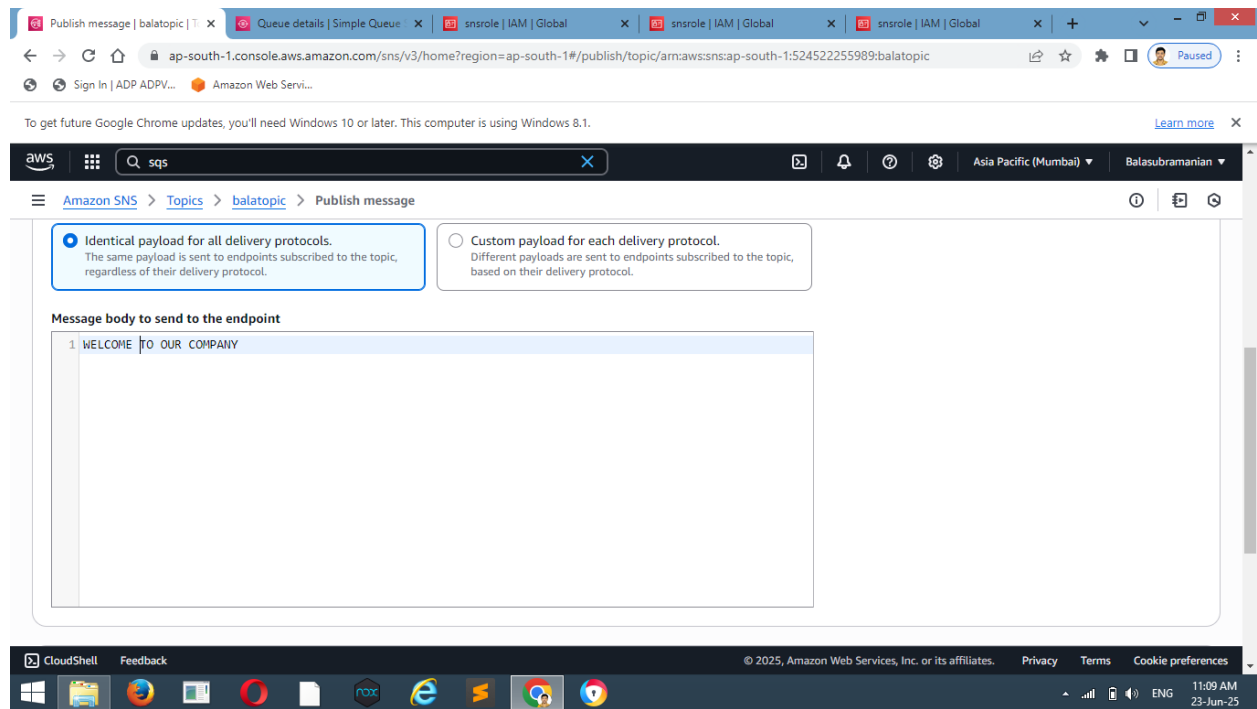
Message structure

☒ Identical payload for all delivery protocols.  
The same payload is sent to endpoints subscribed to the topic.

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

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balatopic | Topics | Simple Not | Queue details | Simple Queue | snsrole | IAM | Global | snsrole | IAM | Global | snsrole | IAM | Global | +

ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/topic/arn:aws:sns:ap-south-1:524522255989:balatopic

Sign In | ADP ADPV... | Amazon Web Servi...

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aws | sqs | Asia Pacific (Mumbai) | Balasubramanian

Amazon SNS > Topics > balatopic

Amazon SNS

- Dashboard
- Topics
- Subscriptions

▼ Mobile

- Push notifications
- Text messaging (SMS)

**New Feature**  
Amazon SNS now supports High Throughput FIFO topics. [Learn more](#)

**Message published to topic balatopic successfully.**  
Message "ID": 55fd72f5-bb61-5b89-bce0-1227519b798e  
Request "ID": 3cc34be2-b950-54d9-b489-2b3053aa06de

[Publish another message](#)

**balatopic** [Edit](#) [Delete](#) [Publish message](#)

**Details**

|   |                                    |
|---|------------------------------------|
| <b>Name</b><br>balatopic                                    | <b>Display name</b><br>-           |
| <b>ARN</b><br>arn:aws:sns:ap-south-1:524522255989:balatopic | <b>Topic owner</b><br>524522255989 |
| <b>Type</b><br>Standard                                     |                                    |

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**STEP 10: GO TO AMAZON SQS IN SEND AND RECEIVE MESSAGES OPTION AND CLICK POLL FOR MESSAGES OPTION THEN THE MESSAGE IS AVAILABLE TO CLICK ITS VISIBLE WHAT MESSAGE WILL COMES**

balatopic | Topics | Simple Not | Queue details | Simple Queue | snsrole | IAM | Global | snsrole | IAM | Global | snsrole | IAM | Global | +

ap-south-1.console.aws.amazon.com/sqs/v3/home?region=ap-south-1#/queues/https%3A%2F%2Fsqs.ap-south-1.amazonaws.com%2F524522255989...

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aws | iam | Asia Pacific (Mumbai) | Balasubramanian

Amazon SQS > Queues > balaqueue

**Subscribed successfully to topic arn:aws:sns:ap-south-1:524522255989:balatopic.**

**balaqueue** [Edit](#) [Delete](#) [Purge](#) [Send and receive messages](#) [Start DLQ redrive](#)

**Details** [Info](#)

|  |   |   |
|--|---|---|
| <b>Name</b><br><a href="#">balaqueue</a> | <b>Type</b><br>Standard   | <b>ARN</b><br><a href="#">arn:aws:sqs:ap-south-1:524522255989:balaqueue</a> |
| <b>Encryption</b><br>Disabled            | <b>URL</b><br><a href="#">https://sqs.ap-south-1.amazonaws.com/524522255989/balaqueue</a> | <b>Dead-letter queue</b><br>-   |

[More](#)

[SNS subscriptions](#) [Lambda triggers](#) [EventBridge Pipes](#) [Dead-letter queue](#) [Monitoring](#) [Tagging](#) [Queue policies](#) [Encryption](#)

Subscription region

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balatopic | Topics | Simple Not... x Send and receive messages | S x snsrole | IAM | Global x snsrole | IAM | Global x snsrole | IAM | Global x +

ap-south-1.console.aws.amazon.com/sqs/v3/home?region=ap-south-1#/queues/https%3A%2F%2Fsqs.ap-south-1.amazonaws.com%2F52452225598... Sign In | ADP ADPV... Amazon Web Servi...

aws iam

Amazon SQS > Queues > balaqueue > Send and receive messages

Message attributes - Optional Info

### Receive messages Info

Edit poll settings Stop polling Poll for messages

|                    |                  |                       |                      |
|--------------------|------------------|-----------------------|----------------------|
| Messages available | Polling duration | Maximum message count | Polling progress     |
| 1                  | 30               | 10                    | 0 receives/second 0% |

Messages (0)

Search messages

View details Delete

< 1 > ⚙

| ID | Sent | Size | Receive count |
|----|------|------|---------------|
|----|------|------|---------------|

No messages. To view messages in the queue, poll for messages.

Poll for messages

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balatopic | Topics | Simple Not... x Send and receive messages | S x snsrole | IAM | Global x snsrole | IAM | Global x snsrole | IAM | Global x +

ap-south-1.console.aws.amazon.com/sqs/v3/home?region=ap-south-1#/queues/https%3A%2F%2Fsqs.ap-south-1.amazonaws.com%2F52452225598... Sign In | ADP ADPV... Amazon Web Servi...

aws iam

Amazon SQS > Queues > balaqueue > Send and receive messages

0 Seconds Should be between 0 seconds and 15 minutes.

Message attributes - Optional Info

### Receive messages Info

Edit poll settings Stop polling Poll for messages

|                    |                  |                       |                       |
|--------------------|------------------|-----------------------|-----------------------|
| Messages available | Polling duration | Maximum message count | Polling progress      |
| 1                  | 30               | 10                    | 1 receives/second 33% |

Messages (1)

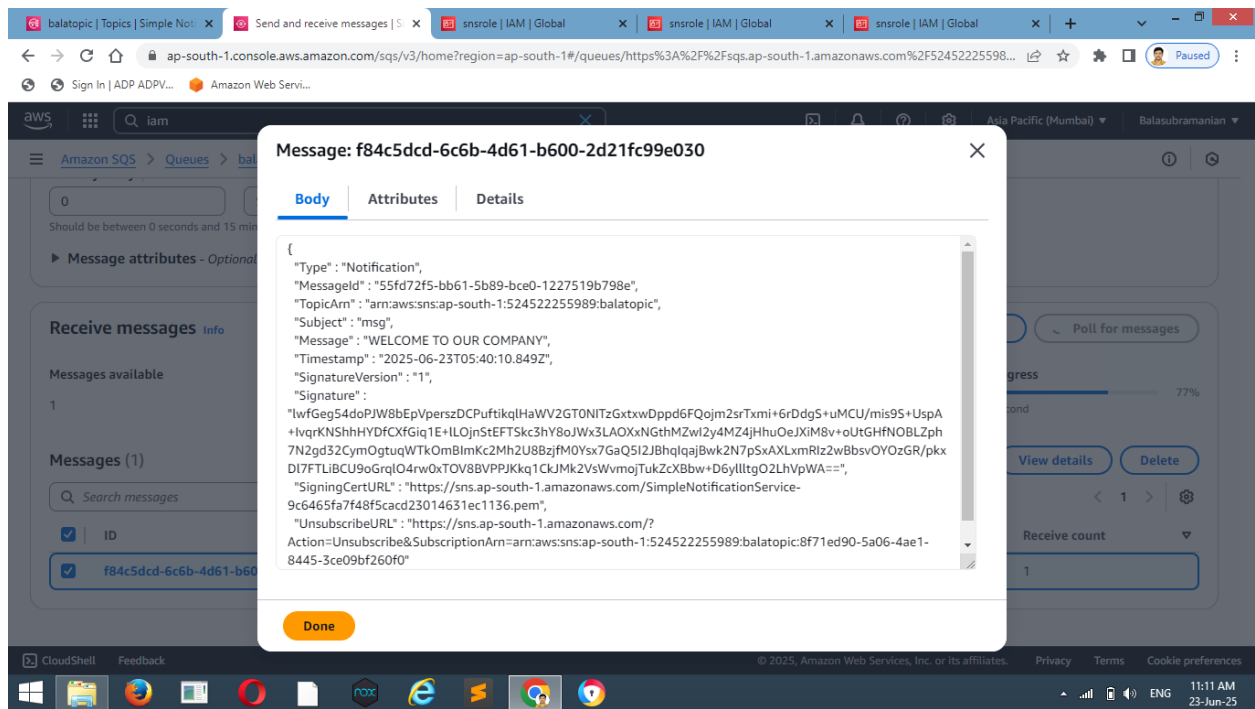
Search messages

View details Delete

< 1 > ⚙

| ID   | Sent                   | Size      | Receive count |
|--|------------------------|-----------|---------------|
| <input checked="" type="checkbox"/> f84c5dcd-6c6b-4d61-b600-2d21fc99e030 | 2025-06-23T11:10:05:30 | 950 bytes | 1             |

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## STEP 11: MESSAGE WILL BE RECEIVED IN EMAIL ALSO

