

## Lesson 08 Demo 05

### Creating SQS Queue, Deduplication ID, and Message Group

**Objective:** To demonstrate the setup and use of Amazon SQS FIFO queues for message sequencing and deduplication

**Tools required:** AWS Management Console

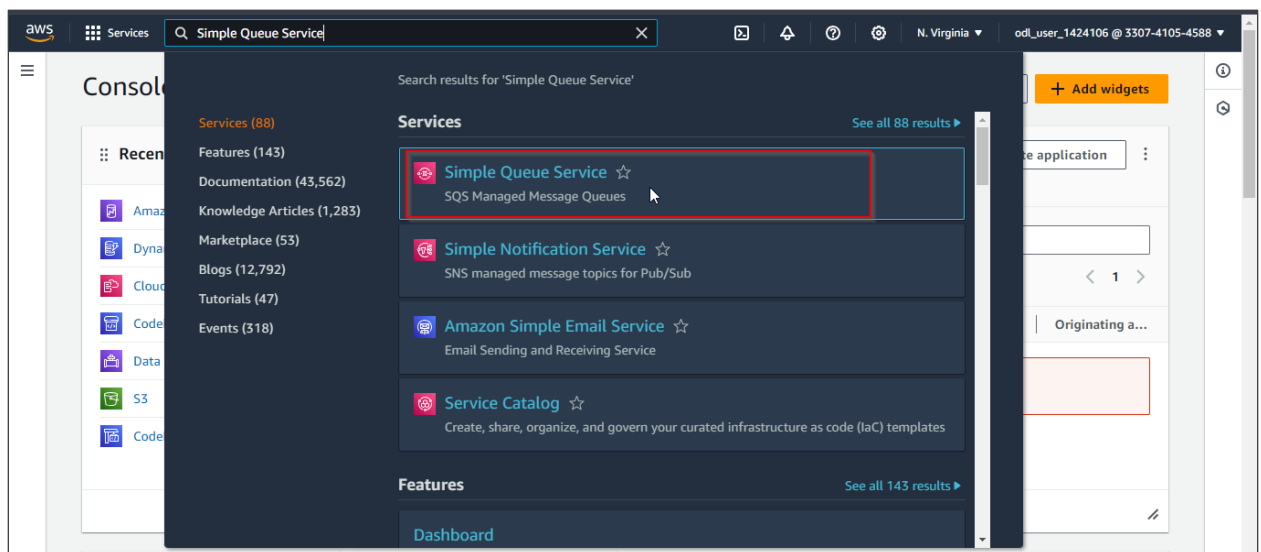
**Prerequisites:** None

Steps to be followed:

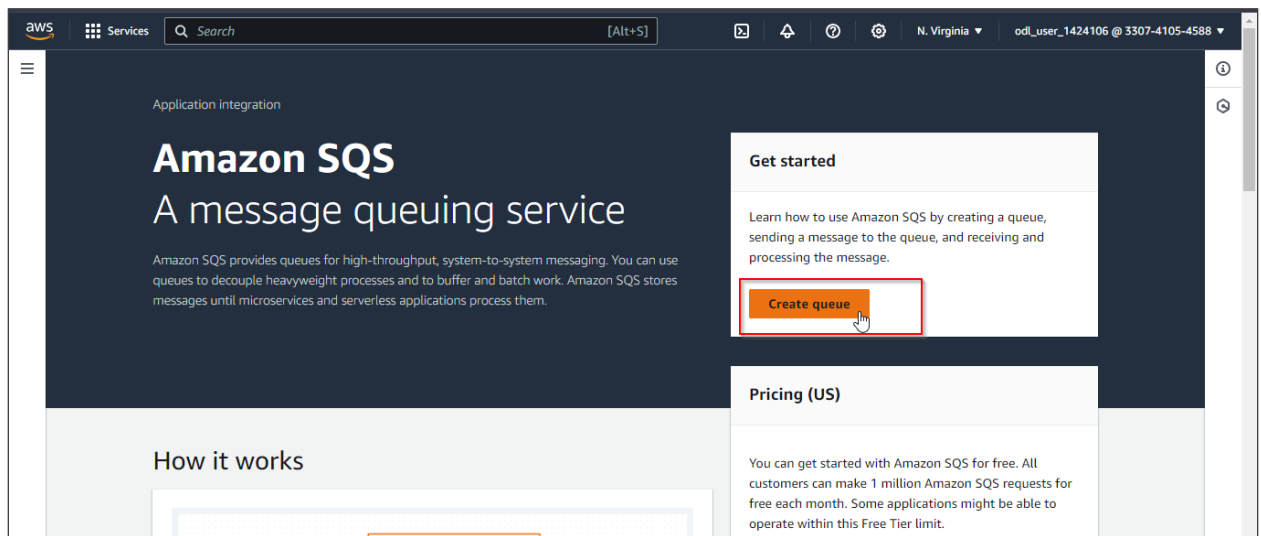
1. Create a Queue
2. Send a message with Group ID and Duplication ID

#### Step 1: Create a Queue

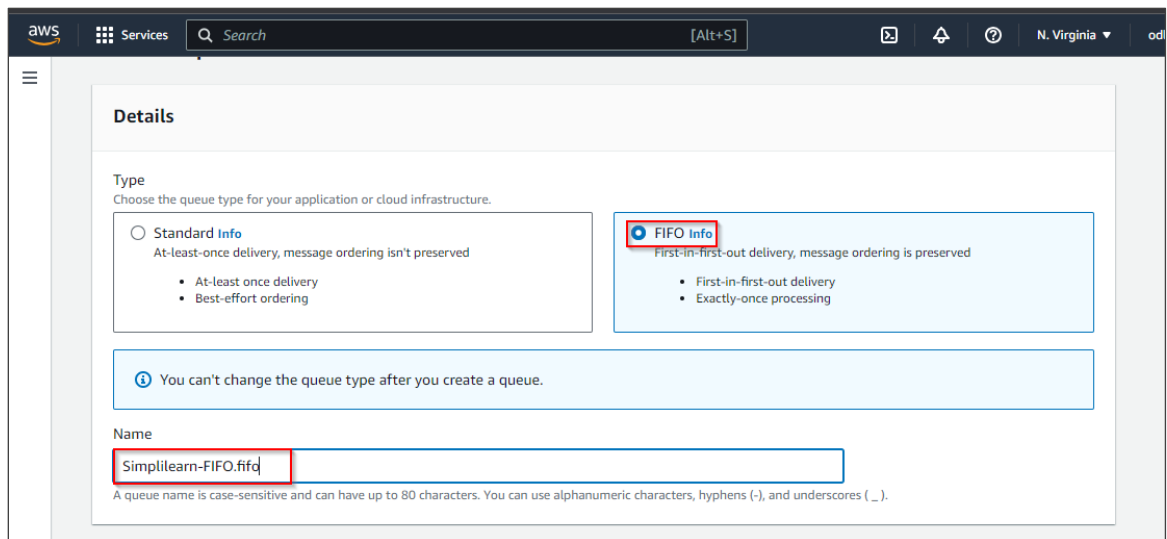
- 1.1 Navigate to the AWS Management Console, and search for and select **Simple Queue Service**



## 1.2 Click on the **Create queue** button



## 1.3 Choose the queue type as **FIFO** and name it **Simplilearn-FIFO.fifo**



**Note:** While entering the name, do not forget to add the **.fifo** suffix

#### 1.4 Under the **Configuration** section, enable the **Content-based deduplication** option

### Configuration Info

Set the maximum message size, visibility to other consumers, and message retention.

Visibility timeout Info

Seconds

Should be between 0 seconds and 12 hours.

Message retention period Info

Days

Should be between 1 minute and 14 days.

Delivery delay Info

Seconds

Should be between 0 seconds and 15 minutes.

Maximum message size Info

KB

Should be between 1 KB and 256 KB.

Receive message wait time Info

Seconds

Should be between 0 and 20 seconds.

#### FIFO queue settings

☒ Content-based deduplication
 

When content-based deduplication is enabled, the message deduplication ID is optional.

☐ High throughput FIFO queue (recommended) Info

#### 1.5 Click on the **Create queue** button

### 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

Add new tag

You can add 49 more tags.

Cancel

Create queue

Queue **Simplilearn-FIFO.fifo** created successfully

You can now send and receive messages.

Amazon SQS > Queues > Simplilearn-FIFO.fifo

Simplilearn-FIFO.fifo

Edit

Delete

Purge

Send and receive messages

Start DLQ redrive

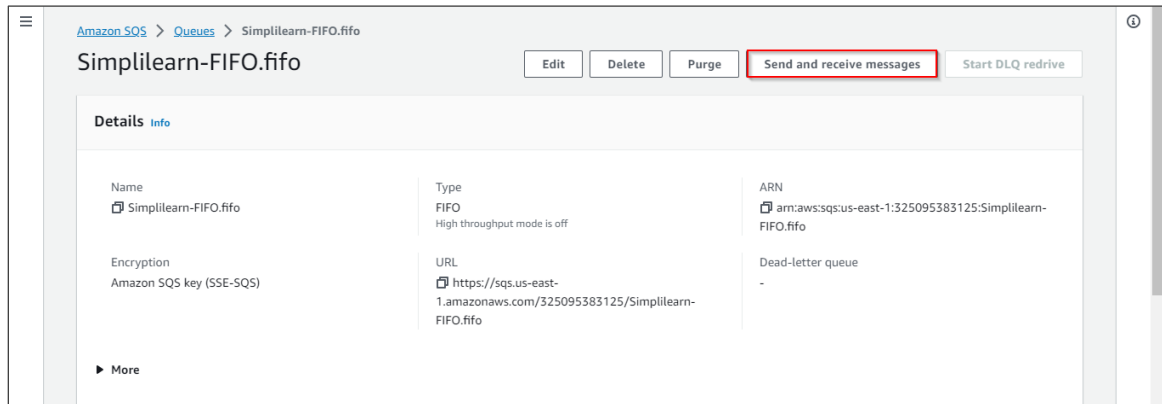
#### Details Info

<p>Name</p> <p> Simplilearn-FIFO.fifo</p>	<p>Type</p> <p>FIFO</p> <p><small>High throughput mode is off</small></p>	<p>ARN</p> <p> arn:aws:sqs:us-east-1:325095383125:Simplilearn-FIFO.fifo</p>
<p>Encryption</p> <p>Amazon SQS key (SSE-SQS)</p>	<p>URL</p> <p> https://sqs.us-east-1.amazonaws.com/325095383125/Simplilearn-FIFO.fifo</p>	<p>Dead-letter queue</p> <p>-</p>

The queue **Simplilearn-FIFO.fifo** has been successfully created.

## Step 2: Send a message with Group ID and Duplication ID

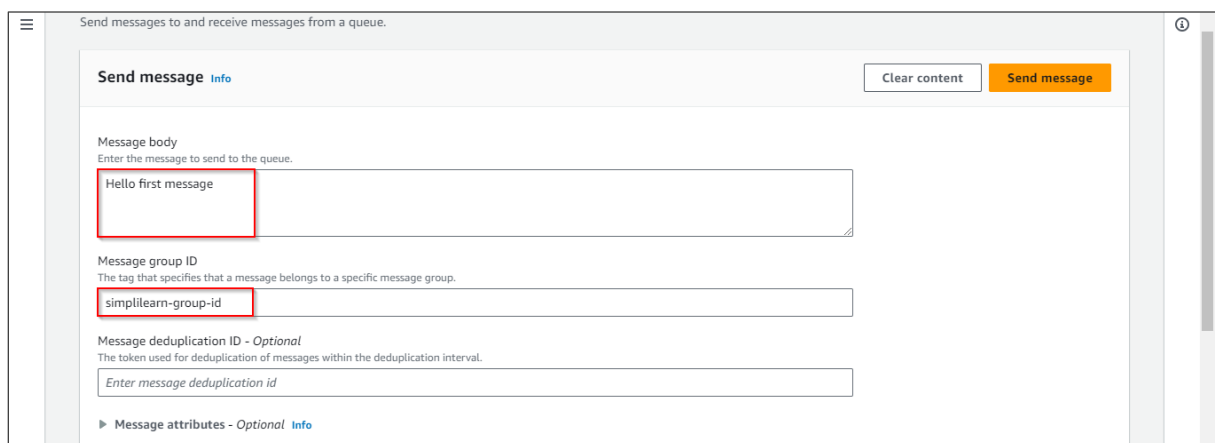
### 2.1 Click on the **Send and receive messages** button



### 2.2 In the **Send message** area, input the following values:

**Message body:** Hello first message

**Message group ID:** simplilearn-group-id



## 2.3 Specify the following values in the **Message attributes**:

Name: **Name**

Enter value: **Hello\_world**

Message deduplication ID - *Optional*  
The token used for deduplication of messages within the deduplication interval.

Enter message deduplication id

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

Name	Type	Value
Name	String	Custom type

Add new attribute

## 2.4 Click on the **Send message** button

Amazon SQS > Queues > Simplilearn-FIFO.fifo > 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 first message

Message group ID  
The tag that specifies that a message belongs to a specific message group.

simplilearn-group-id

Amazon SQS > Queues > Simplilearn-FIFO.fifo > Send and receive messages

### Send and receive messages

Send messages to and receive messages from a queue.

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

✓ Your message has been sent and is ready to be received. View details ×

The message has been sent successfully.

Receive messages [Info](#)

Edit poll settings

Stop polling

Poll for messages

Messages available

1

Polling duration

30

Maximum message count

10

Polling progress

0 receives/second

0%

Messages (0)

View details

Delete

Search messages

< 1 >

⚙️

<input type="checkbox"/>	ID	Sent	Size	Receive count
No messages. To view messages in the queue, poll for messages.				

Poll for messages

The message is successfully received.

## 2.5 Click on the **Poll for messages** option

Receive messages [Info](#)

Edit poll settings

Stop polling

Poll for messages

Messages available

1

Polling duration

30

Maximum message count

10

Polling progress

1 receives/second

100%

Messages (1)

View details

Delete

Search messages

< 1 >

⚙️

<input type="checkbox"/>	ID	Sent	Size	Receive count
<input type="checkbox"/>	<a href="#">94a4d6de-b19e-4d0b-b43d-e0b3bb6fc55a</a>	2023-08-31T12:15+05:30	40 bytes	1

## 2.6 Click on the **ID** to view the sent messages within the **Body** tab

Receive messages [Info](#)

Edit poll settings

Stop polling

Poll for messages

Messages available

1

Polling duration

30

Maximum message count

10

Polling progress

1 receives/second

100%

Messages (1)

View details

Delete

Search messages

< 1 >

⚙️

<input type="checkbox"/>	ID	Sent	Size	Receive count
<input type="checkbox"/>	<a href="#">94a4d6de-b19e-4d0b-b43d-e0b3bb6fc55a</a>	2023-08-31T12:15+05:30	40 bytes	1

Message: 94a4d6de-b19e-4d0b-b43d-e0b3bb6fc55a

Body

Attributes

Details

Hello first message

Done

The sent message is available.

2.7 Return to the **Message body** and modify the message. While keeping the **Message group ID** the same, click on the **Send message** button

Send messages to and receive messages from a queue.

Send message

Clear content

Send message

✔ Your message has been sent and is ready to be received.

View details

×

Message body

Enter the message to send to the queue.

Welcome to simplilearn

Message group ID

The tag that specifies that a message belongs to a specific message group.

simplilearn-group-id

Message deduplication ID - Optional

The token used for deduplication of messages within the deduplication interval.

Enter message deduplication id

In the **Receive messages** section, you can see that two messages are available.

Receive messages

Edit poll settings

Stop polling

Poll for messages

Messages available

2

Polling duration

30

Maximum message count

10

Polling progress

✔

1 receives/second

Messages (1)

View details

Delete

Search messages

<

1

>

⚙

## 2.8 Click on the **Poll for messages** option

Enter message deduplication id

▼ Message attributes - Optional Info

Name

String

Custom type

Hello\_world

Add new attribute

Receive messages Info

Edit poll settings

Stop polling

Poll for messages

Messages available

2

Polling duration

30

Maximum message count

10

Polling progress

✓

1 receives/second

Messages (1)

View details

Delete

Q Search messages

< 1 > ⚙

<input type="checkbox"/>	ID	Sent	Size	Receive count
<input type="checkbox"/>	<a href="#">8854404c-03bd-47cc-b90a-d5e00c871b2a</a>	2024-08-13T12:32+05:30	40 bytes	1

## 2.9 Click on the newly created ID, to view the newly sent message

Receive messages Info

Edit poll settings

Stop polling

Poll for messages

Messages available

2

Polling duration

30

Maximum message count

10

Polling progress

✓

2 receives/second

Messages (2)

View details

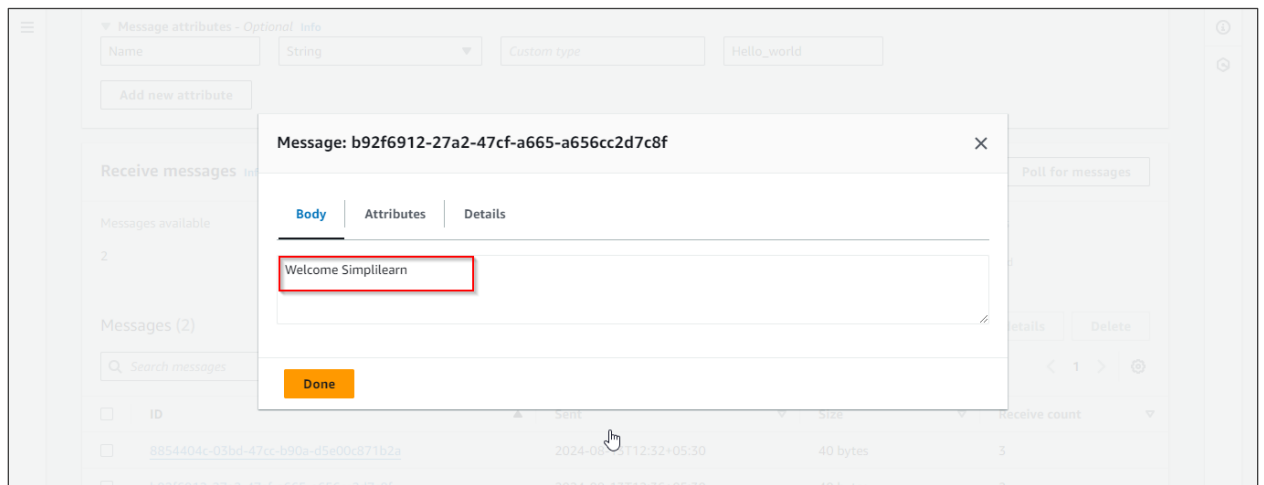
Delete

Q Search messages

< 1 > ⚙

<input type="checkbox"/>	ID	Sent	Size	Receive count
<input type="checkbox"/>	<a href="#">94a4d6de-b19e-4d0b-b43d-e0b3bb6fc55a</a>	2023-08-31T12:15+05:30	40 bytes	2
<input type="checkbox"/>	<a href="#">62fb43a7-c5f7-4fae-8603-4c46b125d13e</a>	2023-08-31T12:52+05:30	43 bytes	1





The newly sent message is available.

By following these steps, you have successfully set up and utilized an Amazon SQS FIFO queue, managing messages with deduplication and grouping.