

Lesson 08 Demo 05

Creating SQS Queue, Deduplication ID, and Message Group

Objective: To provide a practical understanding of creating and utilizing a FIFO (First-In, First-Out) queue in the Amazon Simple Queue Service (SQS)

Tools required: AWS Management Console

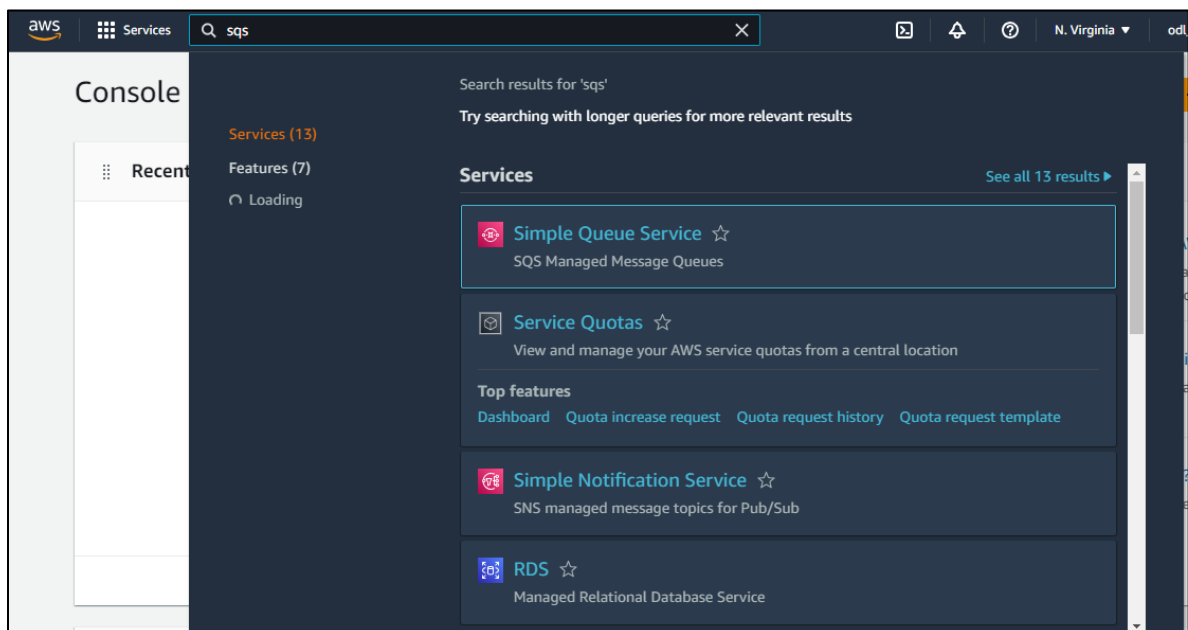
Prerequisites: None

Steps to be followed:

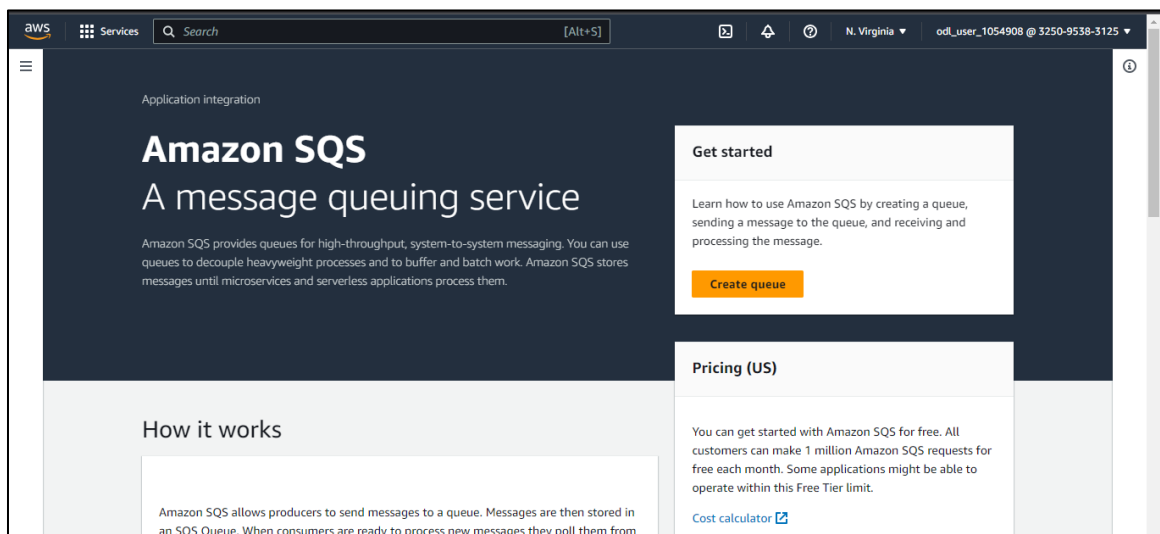
1. Create a Queue
2. Send a message with Group ID and Duplication ID

Step 1: Create a Queue

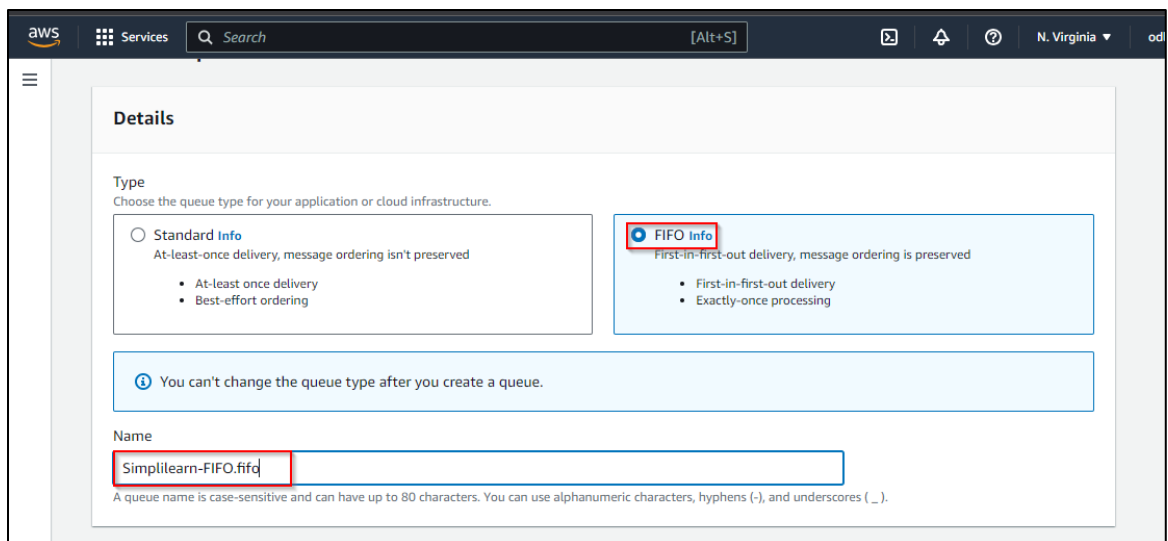
1.1 Navigate to the portal, and search for and select **Simple Queue Service**



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

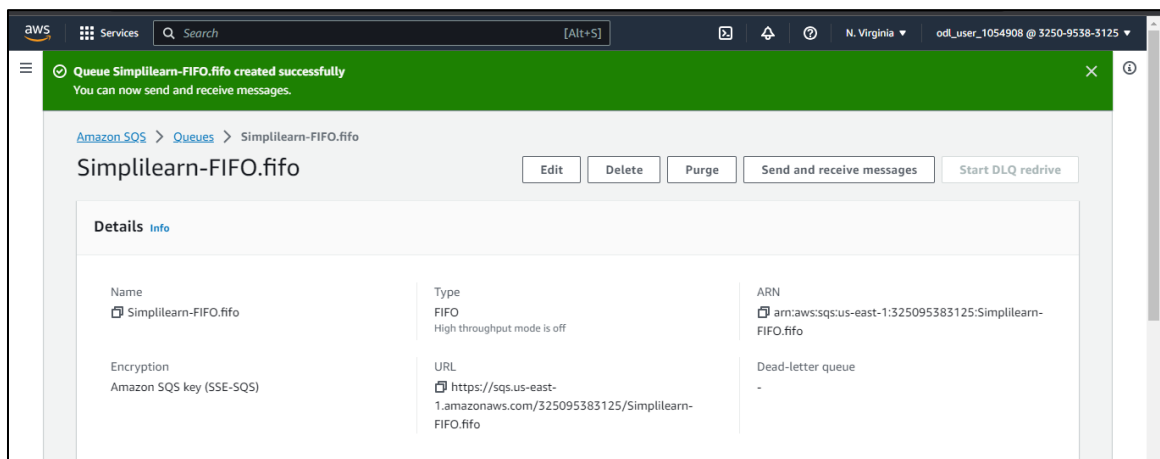
Remove

Add new tag

You can add 49 more tags.

Cancel

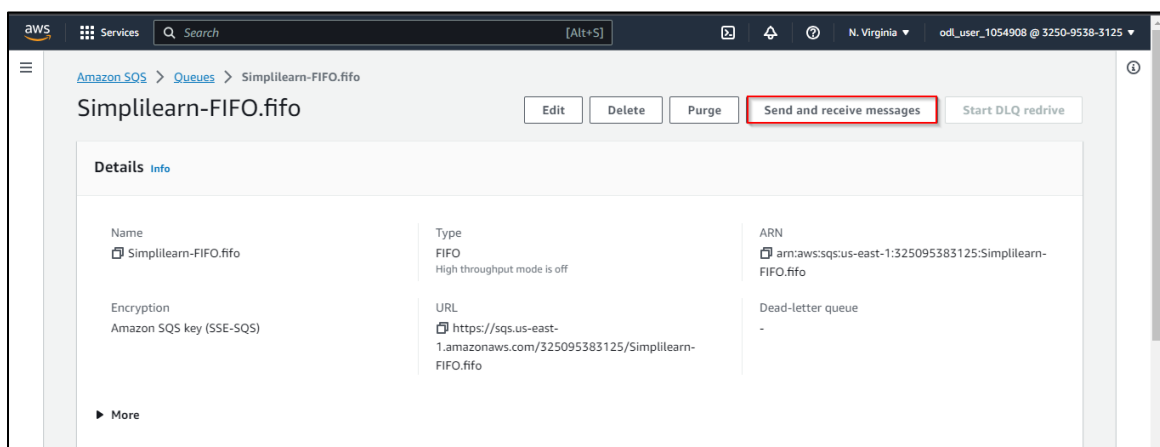
Create queue



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

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.

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

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

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

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

- **Name:** Name
- **Enter value:** Hello_world

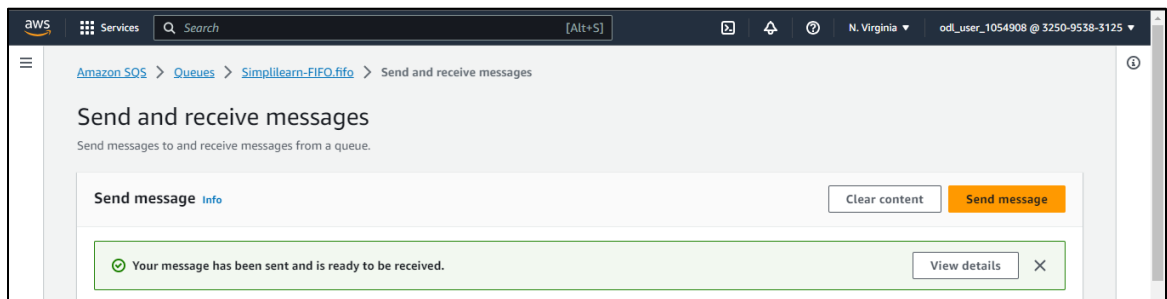
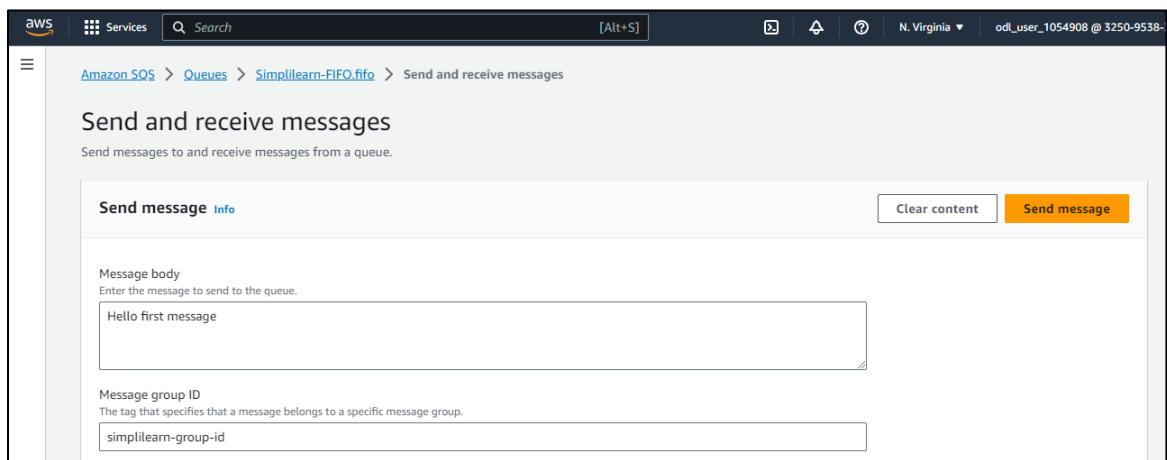
Message deduplication ID - Optional
The token used for deduplication of messages within the deduplication interval.

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

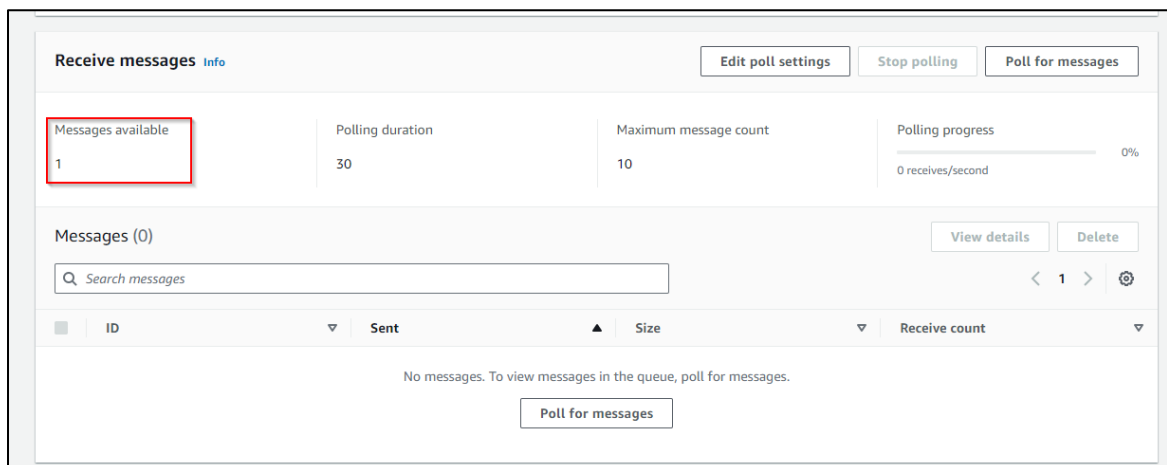
<input type="text" value="Name"/>	<input type="text" value="String"/>	<input type="text" value="Custom type"/>	<input type="text" value="Hello_world"/>
-----------------------------------	-------------------------------------	--	--

Add new attribute

2.4 Click on the **Send message** button

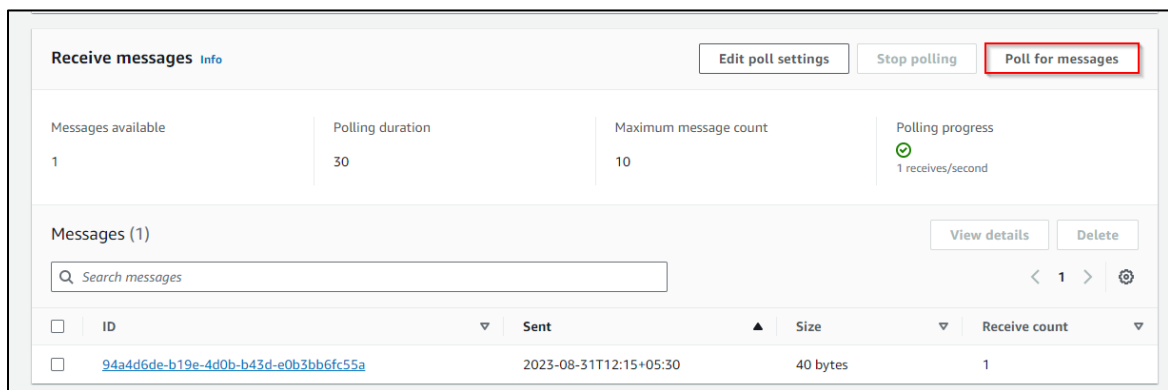


The message has been sent successfully.



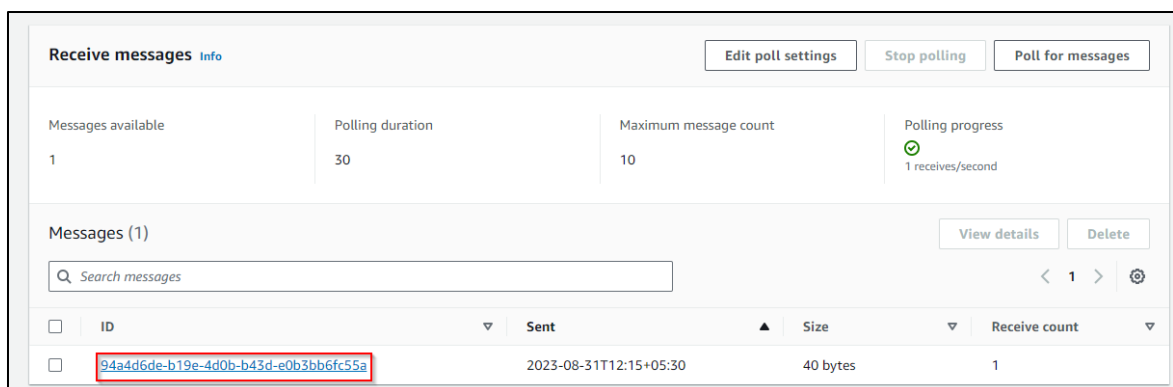
The message is successfully received.

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

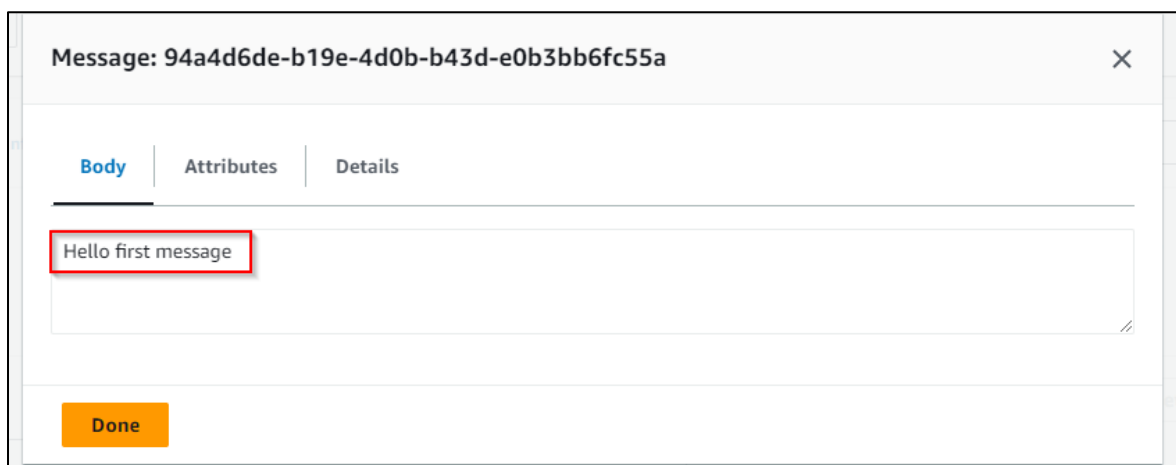


The screenshot shows the 'Receive messages' interface. At the top right, there are three buttons: 'Edit poll settings', 'Stop polling', and 'Poll for messages'. The 'Poll for messages' button is highlighted with a red rectangle. Below the buttons, there are four status indicators: 'Messages available' (1), 'Polling duration' (30), 'Maximum message count' (10), and 'Polling progress' (1 receives/second). Below these, there is a section for 'Messages (1)' with a search bar and a table of messages. The table has columns for 'ID', 'Sent', 'Size', and 'Receive count'. The first message has an ID of '94a4d6de-b19e-4d0b-b43d-e0b3bb6fc55a', was sent on '2023-08-31T12:15+05:30', is '40 bytes' in size, and has a 'Receive count' of '1'.

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



This screenshot is identical to the previous one, showing the 'Receive messages' interface. The message ID '94a4d6de-b19e-4d0b-b43d-e0b3bb6fc55a' in the table is highlighted with a red rectangle.



The screenshot shows a dialog titled 'Message: 94a4d6de-b19e-4d0b-b43d-e0b3bb6fc55a'. At the top right is a close button (X). Below the title bar, there are three tabs: 'Body', 'Attributes', and 'Details'. The 'Body' tab is selected. The message content 'Hello first message' is displayed in a text area and is highlighted with a red rectangle. At the bottom left, there is an orange 'Done' button.

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 [Info](#) 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 [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

Search messages

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

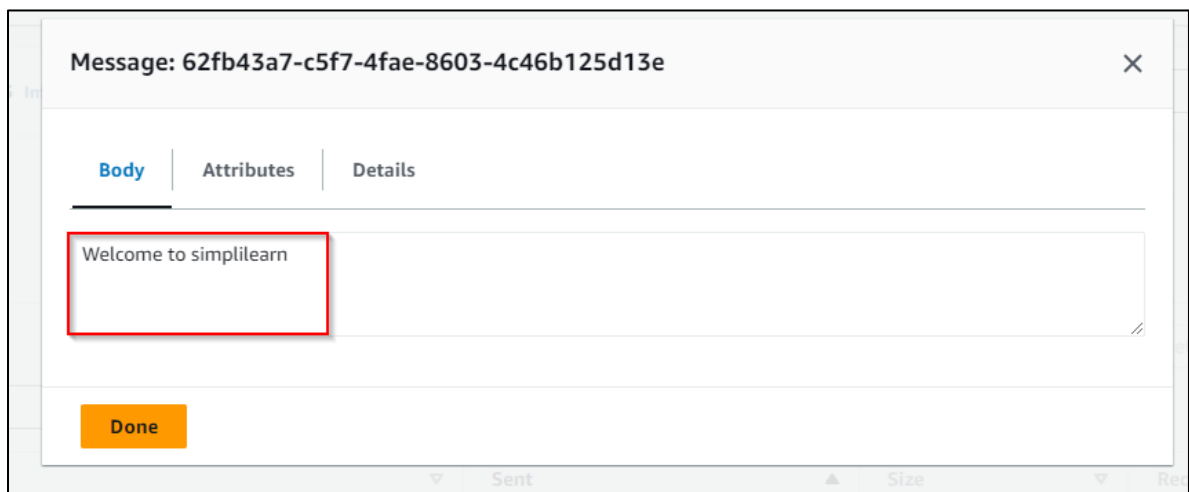
Messages available: 2 | Polling duration: 30 | Maximum message count: 10 | Polling progress: 2 receives/second

Messages (2) View details Delete

Search messages

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

2.8 By clicking on the newly created ID, you can view the previously sent message



By following these steps, you have successfully gained a practical understanding of working with SQS FIFO queues, implementing deduplication IDs, and effectively managing message grouping for seamless communication.