Lesson 08 Demo 04

Creating SQS Standard Queue, Visibility Timeout, and DLQ

Objective: To create and manage an Amazon SQS Standard Queue, emphasizing the concepts of visibility timeout and Dead Letter Queue (DLQ)
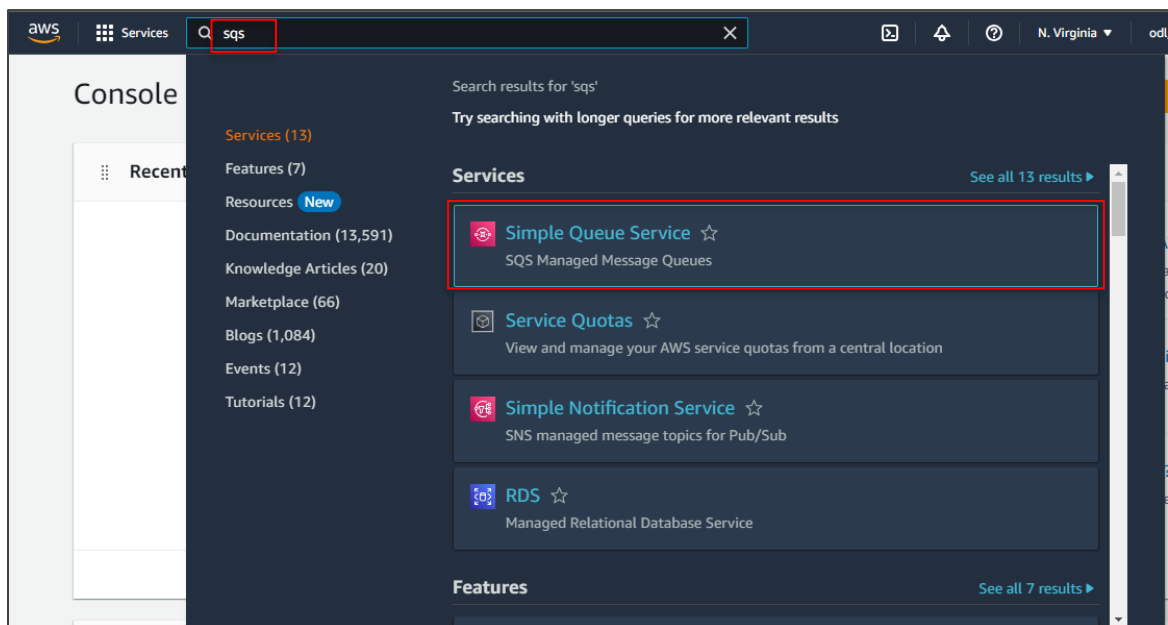
Tools required: AWS Management Console

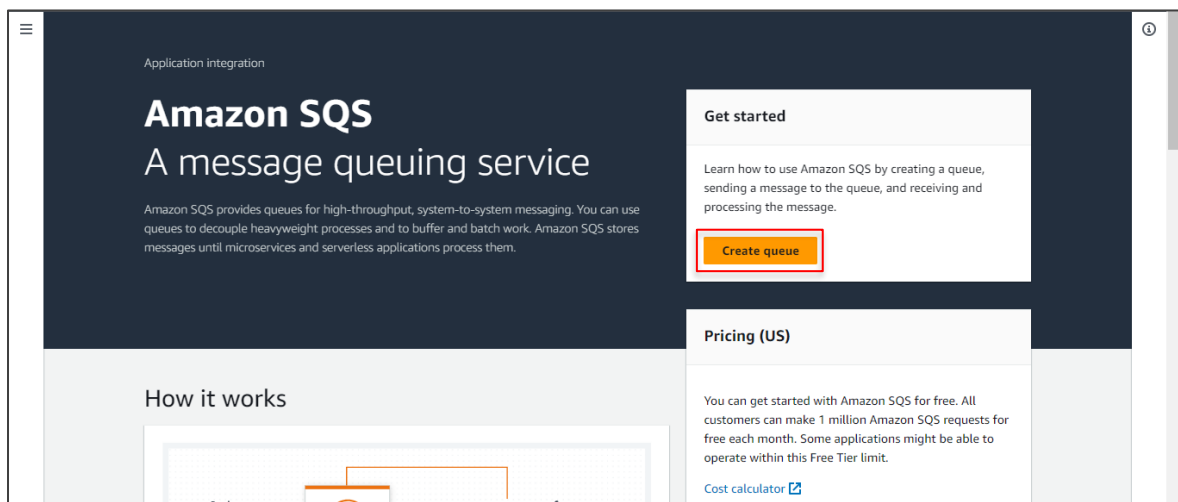**Prerequisites:** None

Steps to be followed:
1. Create a standard SQS Queue
2. Send and receive messages
3. Create message polling
4. Edit visibility timeout
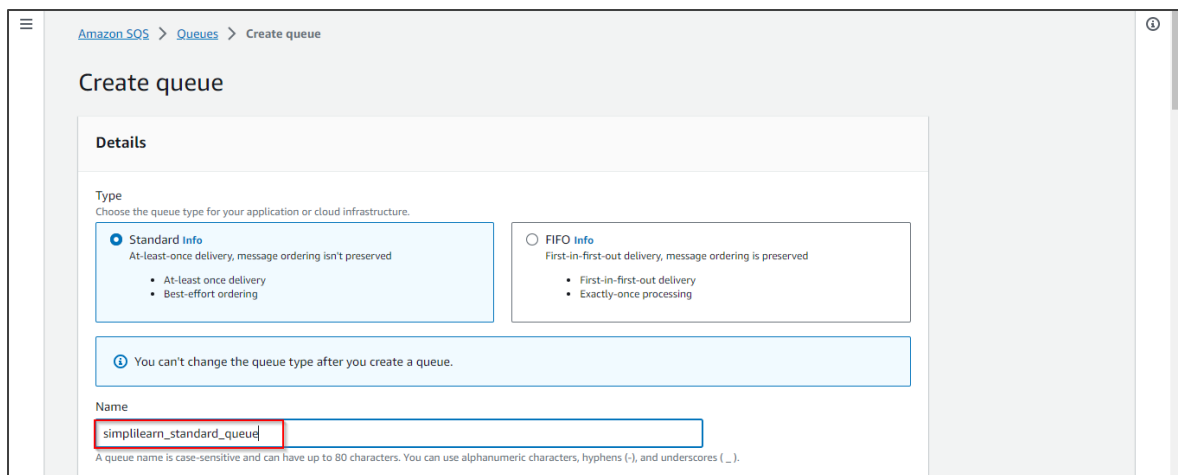5. Create DLQ

Step 1: Create a Standard SQS Queue

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

1.2 Click on the **Create queue** button

1.3 Name the queue as **simplilearn_standard_queue**

1.4 In the Configuration section, set the **Delivery delay** to **4 Seconds** and the **Receive message wait time** to **5 Seconds**

1.5 Keep the default values, and click on the **Create queue** button
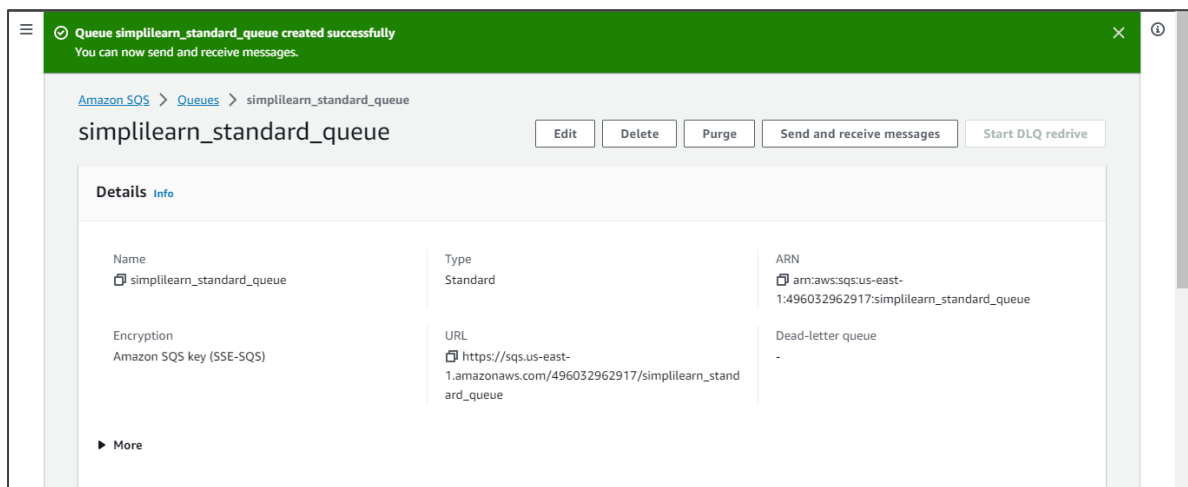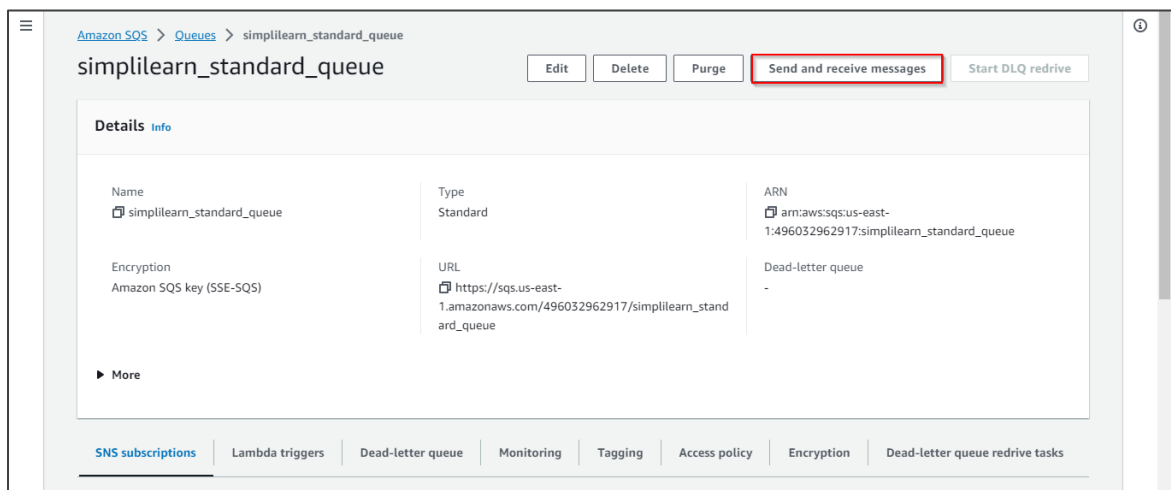
The queue has been created successfully.

Step 2: Send and receive messages

2.1 Navigate to the queue dashboard, and click on the **Send and receive messages** option

2.2 In the **Send message** section, specify the following values:
Message body: welcome to the Simplilearn
Delivery delay: 0
Click on the **Send message**

The message is sent successfully.

Step 3: Create message polling

3.1 Scroll down and click on the **Poll for messages** button

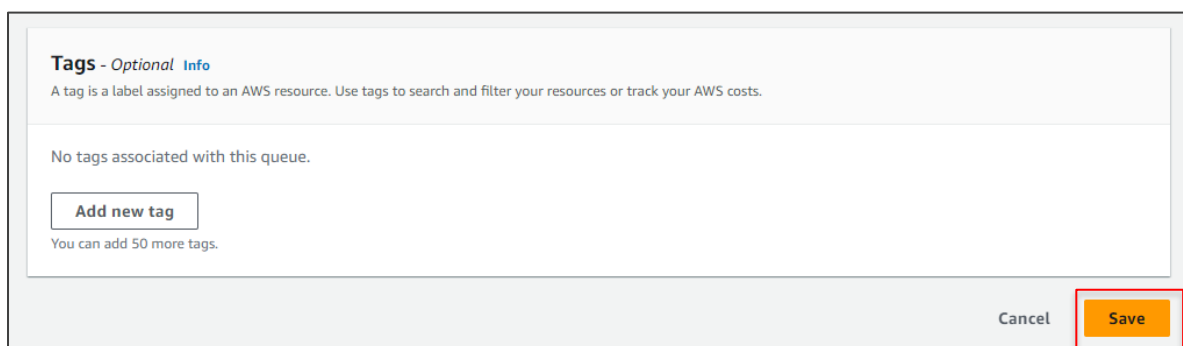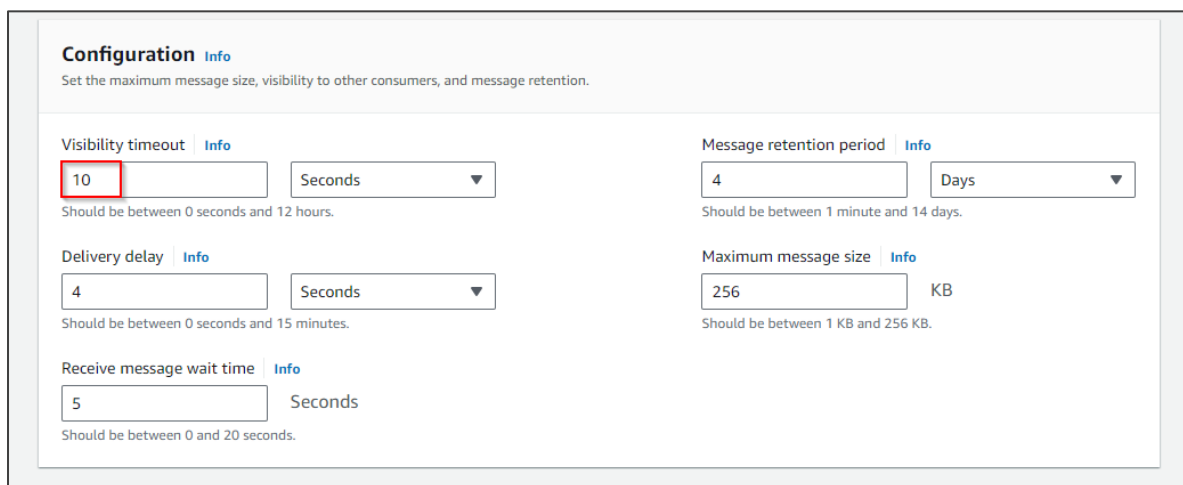3.2 In the **Messages** section, click on the **Message ID** and navigate to the **Body** tab to view the message
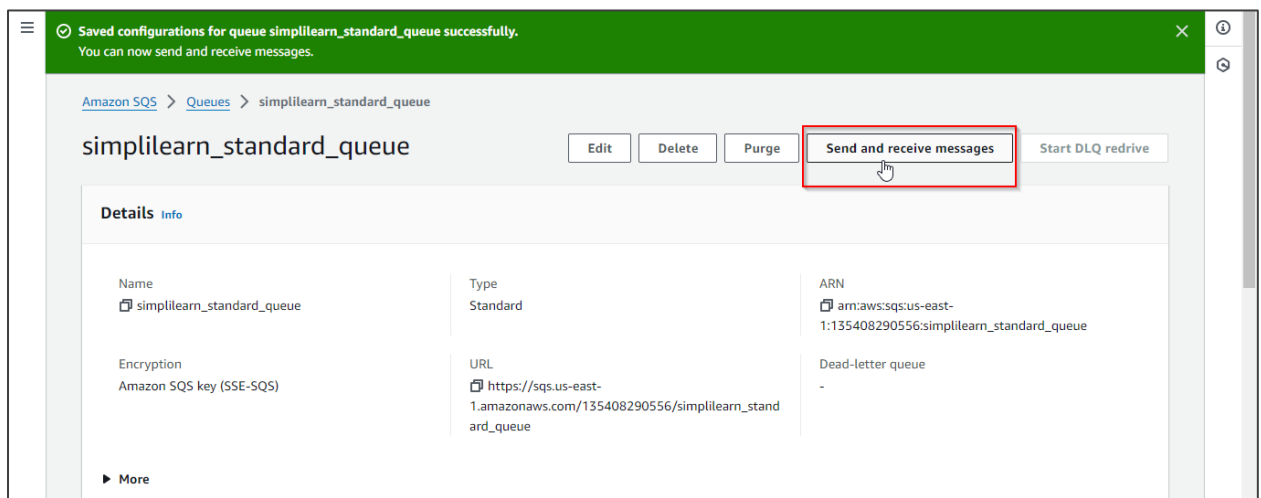
Step 4: Edit visibility timeout

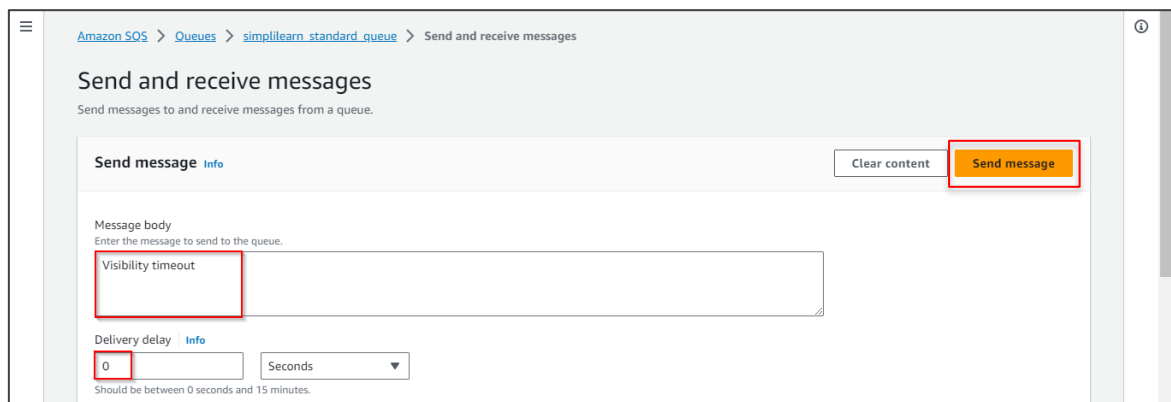4.1 Select **simplilearn_standard_queue** and click on **Edit**
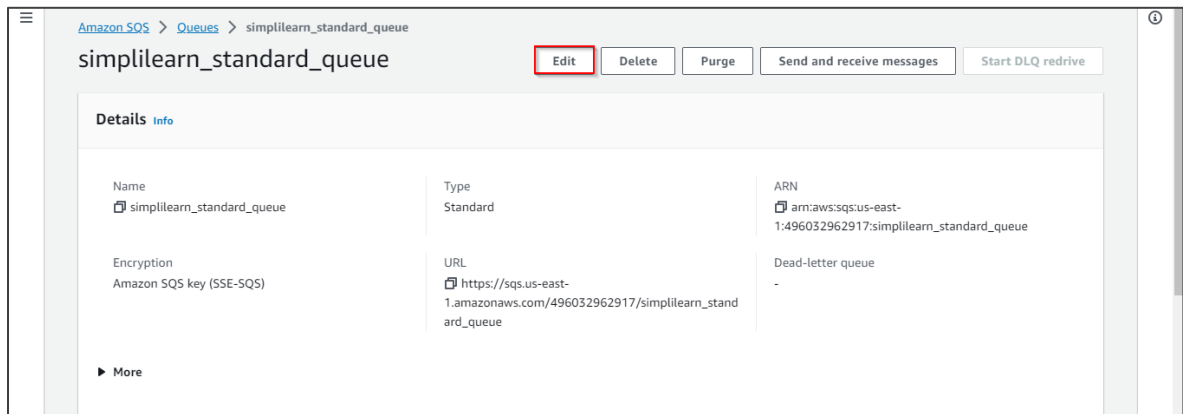
4.2 Set the **Visibility timeout** to **10 Seconds** and click on the **Save** button

4.3 Click on the **Send and receive messages** option

4.2 In the **Message body** section, enter **Visibility timeout**, set the **Delivery delay** to **0 Seconds**, and click on the **Send message** button

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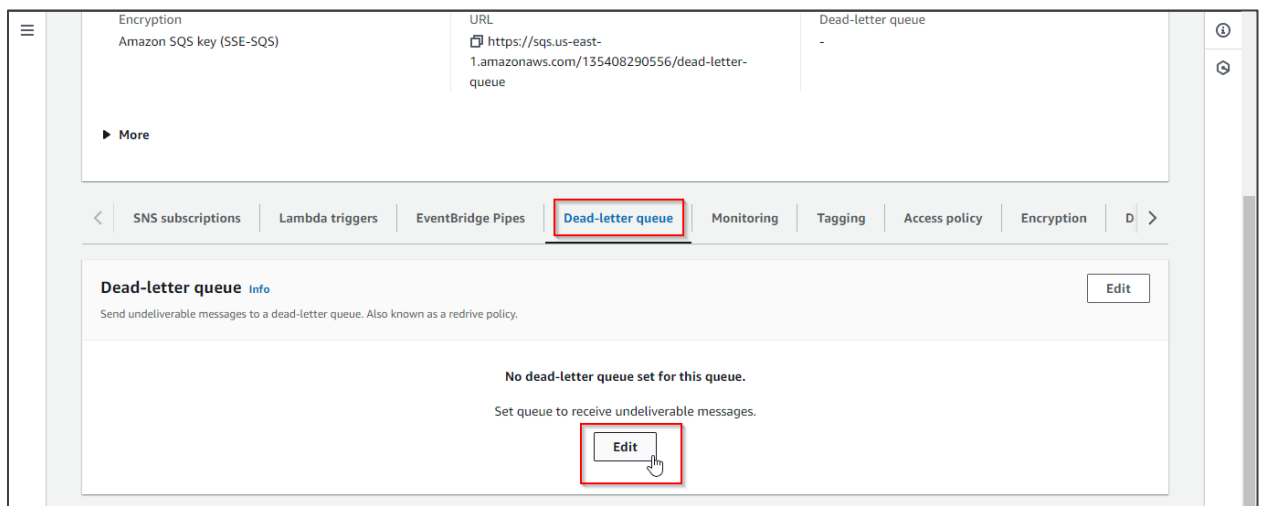

Step 5: Create DLQ

5.1 Create another queue named **dead-letter-queue,** following the steps from 1.1 to 1.5

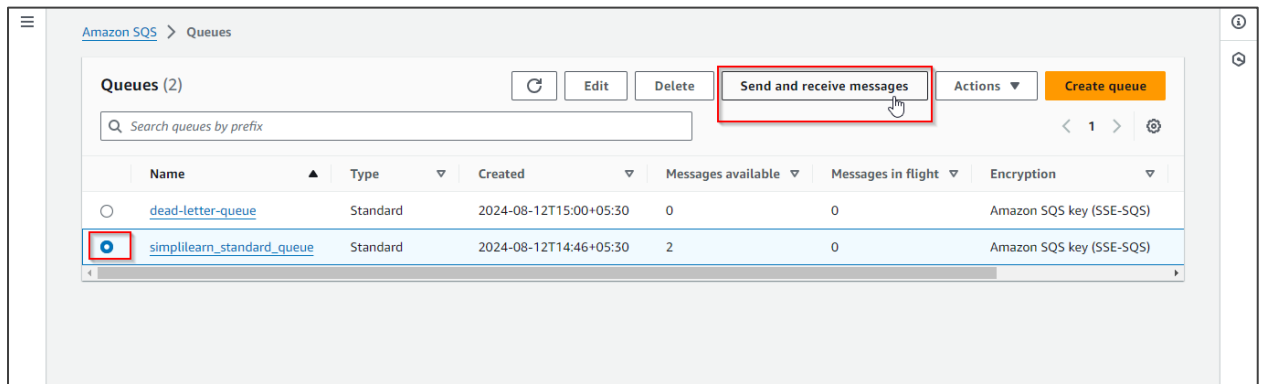5.2 Navigate to the **Dead-letter-queue** and click on the **Edit** button

5.3 In the **Dead-letter queue** section, select the **enable** option, choose queue as **ARN**, enter the **ARN** of the dead-letter queue, and set **Maximum receives** to **1** and click on **Save**
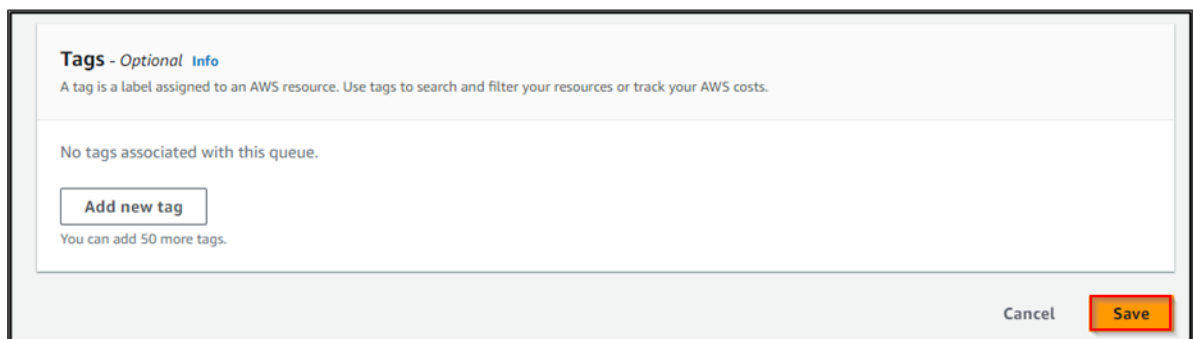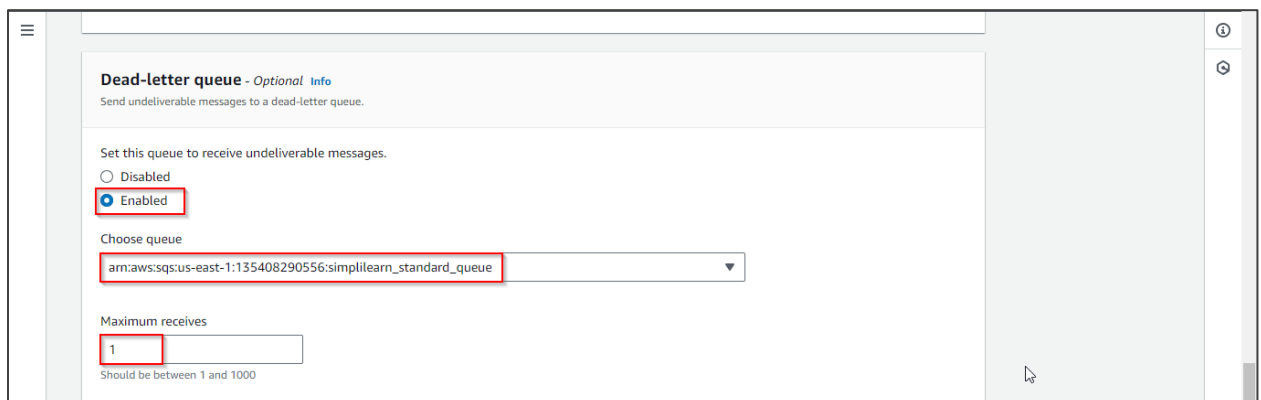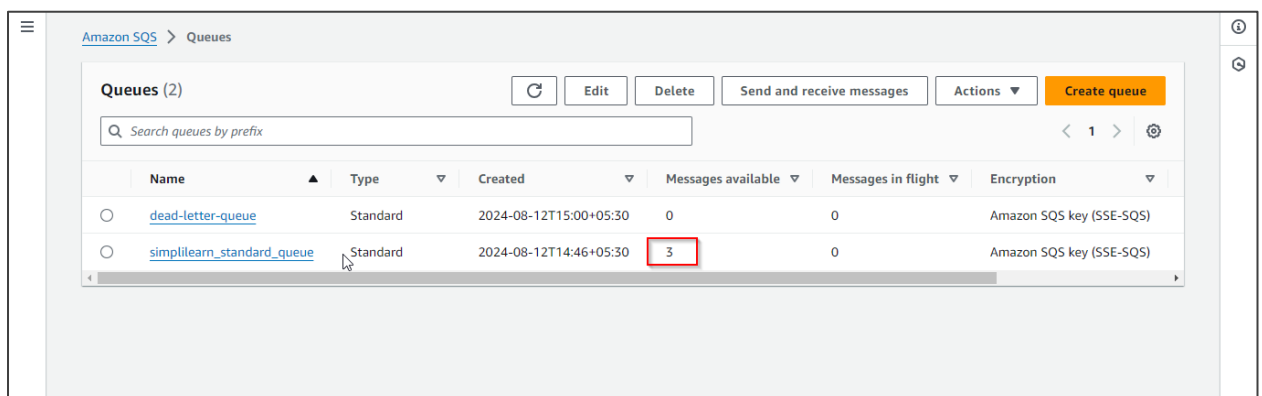
5.4 Select the **Simplilearn_Standard_queue** option and click on the **Send and receive messages** button
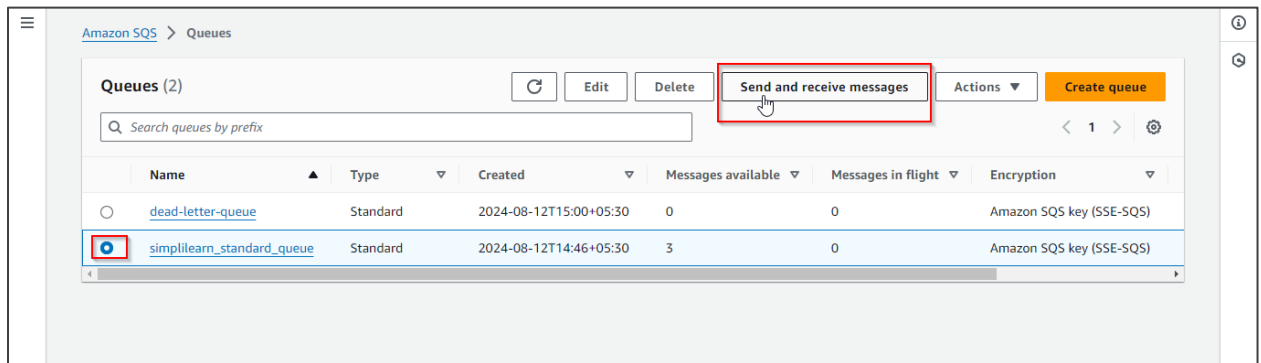

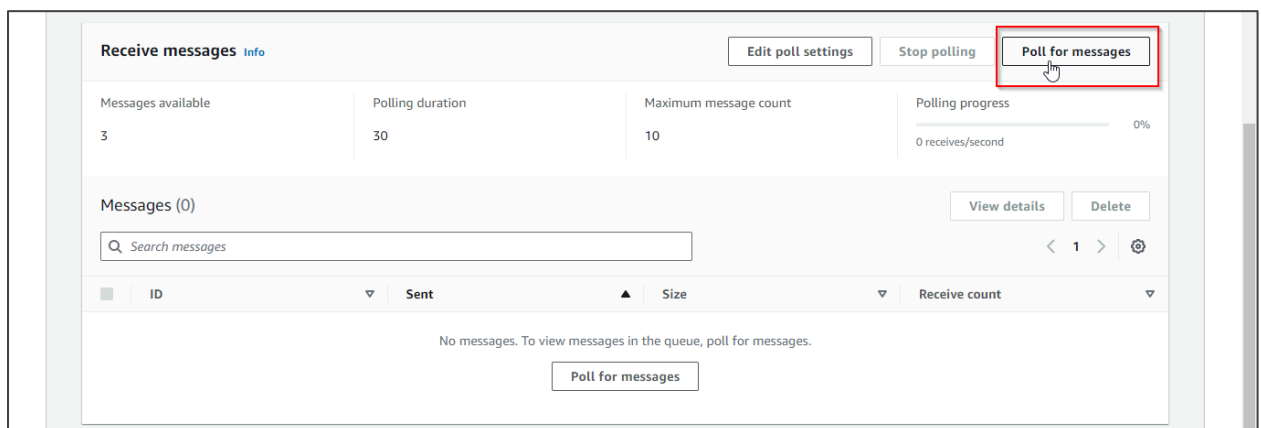5.5 In the **Message body**, enter **Simplilearn** and click on the **Send message** button
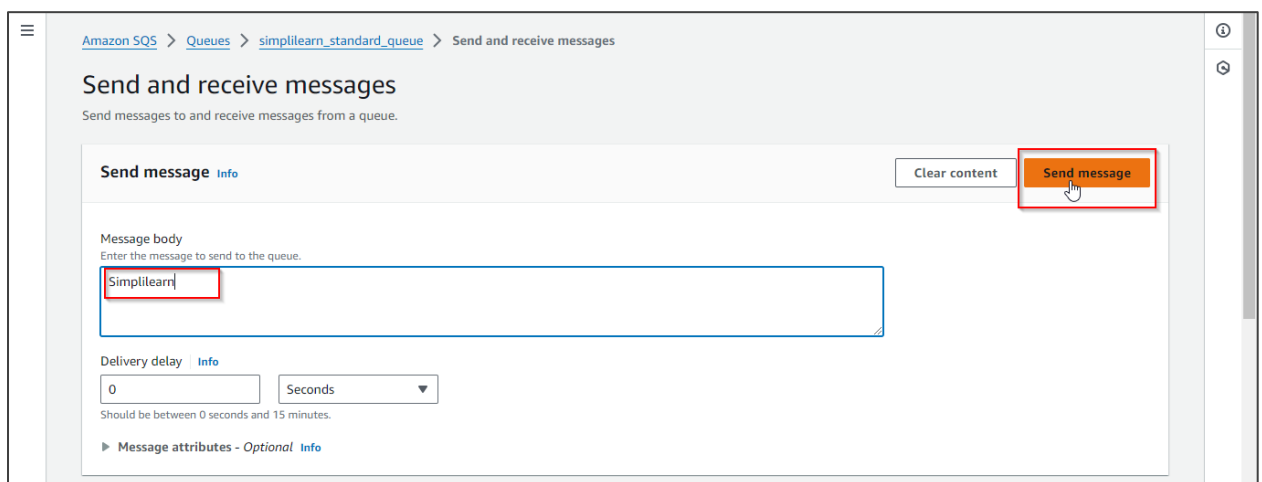
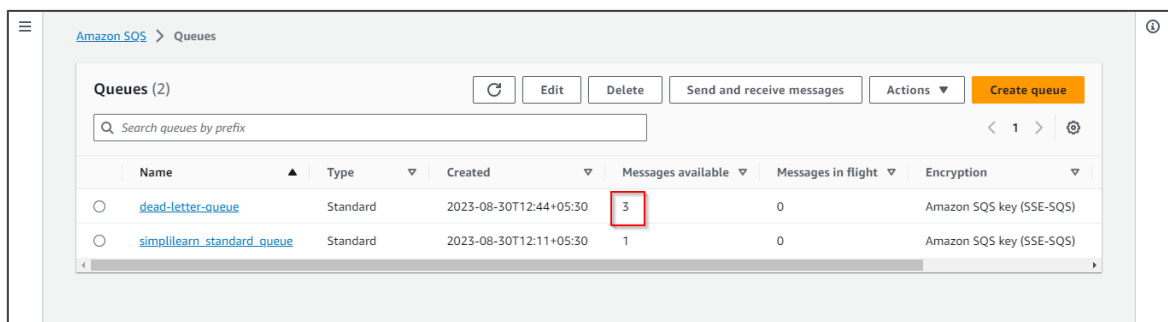5.6 Navigate back to the **Queues** page, where the message count is **3**

5.7 Select the **simplilearn_standard_queue** option and click on the **Send and receive messages** button
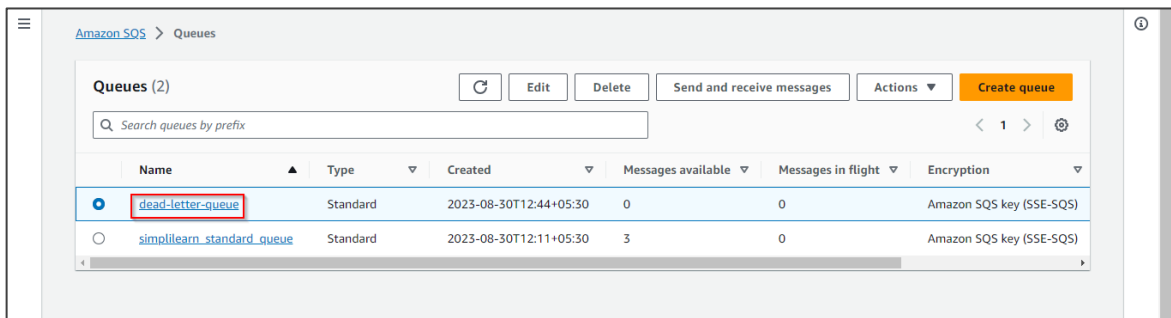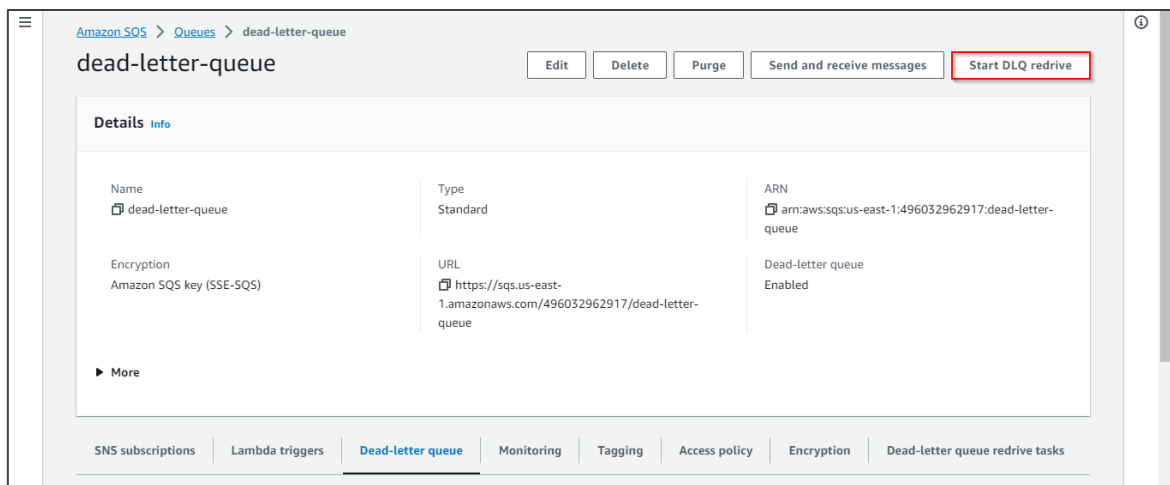

5.8 Click **Poll for messages** to view the message

5.9 Return to the **Queues** page and refresh it multiple times to observe messages being moved to the **dead-letter-queue**
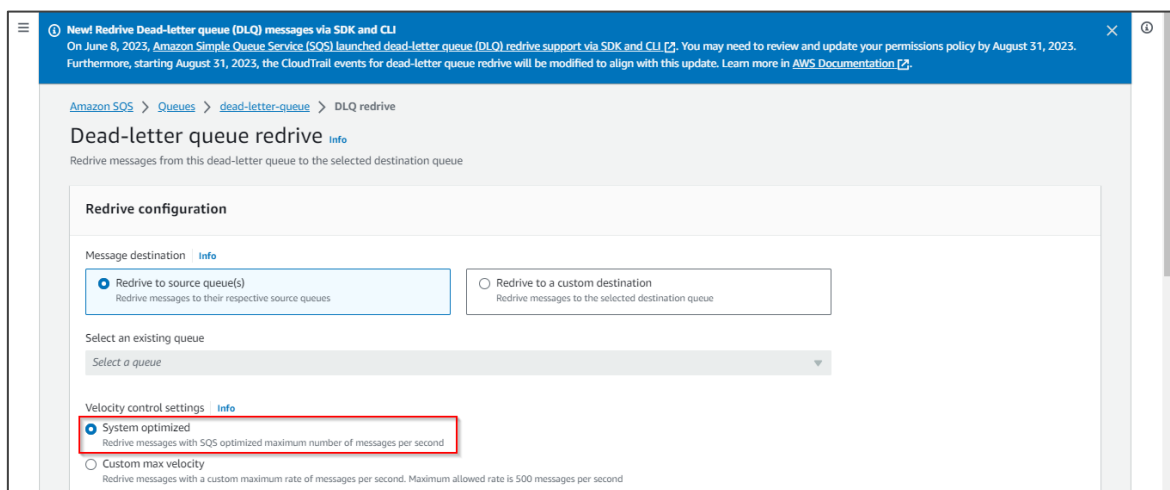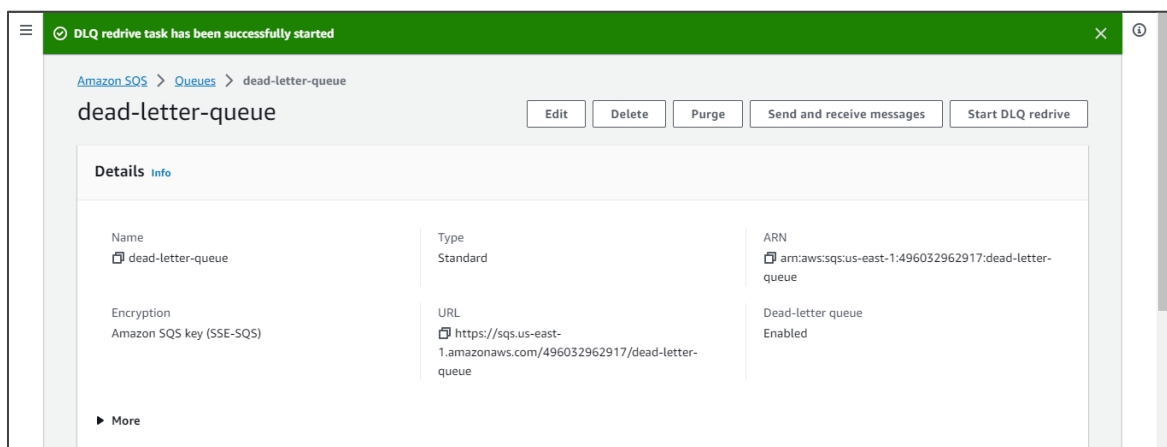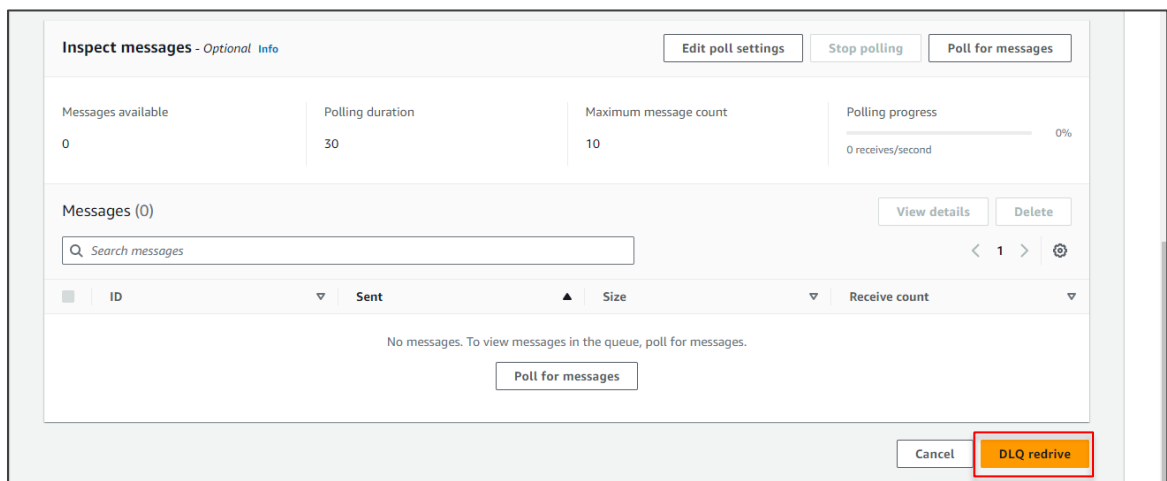
5.10 Click on the **dead-letter-queue** option

5.11 Click on the **Start DLQ redrive** button

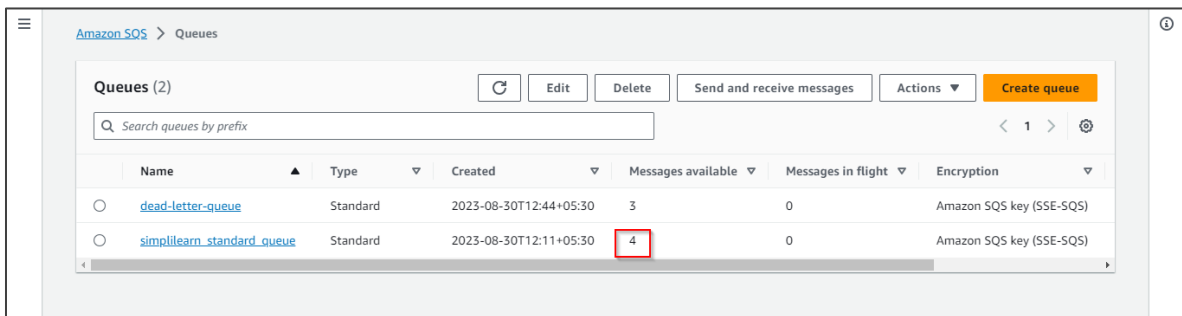5.12 In the **Velocity control settings**, select the **System optimized** option

5.13 Click on the **DLQ redrive** button

The DLQ redrive has been successfully created.

5.14 Return to the **Queues** page. The message will be sent to **simplilearn_standard_queue.**

By following these steps, you have successfully demonstrated the process of working with an Amazon SQS Standard Queue, adjusting visibility timeout, and setting up a Dead Letter Queue for message handling.