

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 Lab

Prerequisites: None

Steps to be followed:

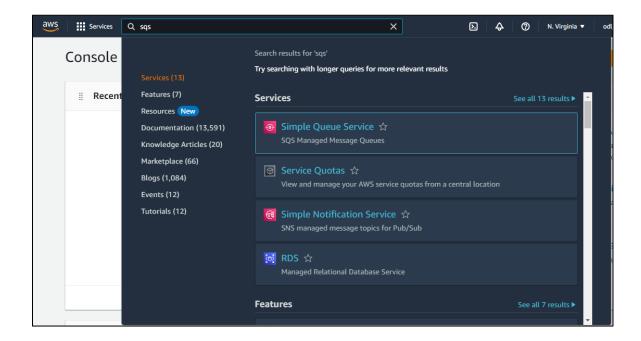
1. Create a standard SQS Queue

2. Send and receive messages

- 3. Create message polling
- 4. Edit visibility timeout
- 5. Create DLQ

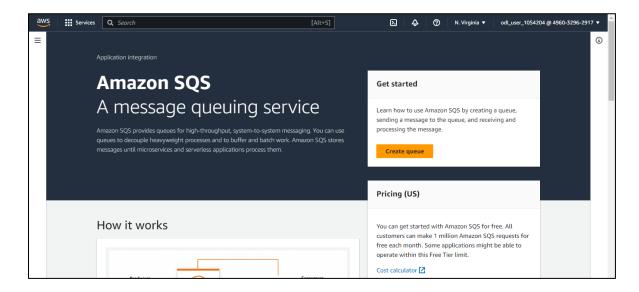
Step 1: Create a Standard SQS Queue

1.1 On the AWS portal, search for and select SQS

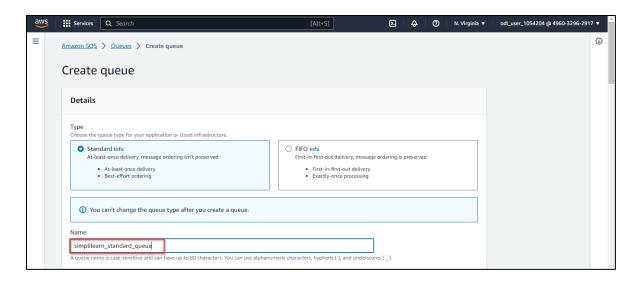




1.2 Click on the Create queue button

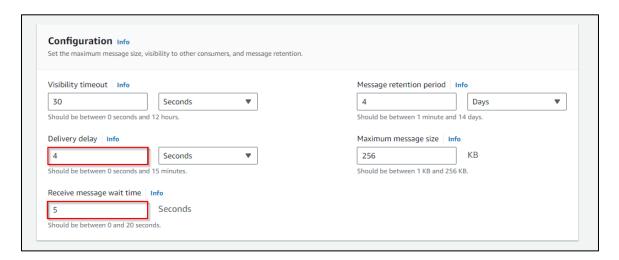


1.3 Name the queue simplilearn_standard_queue

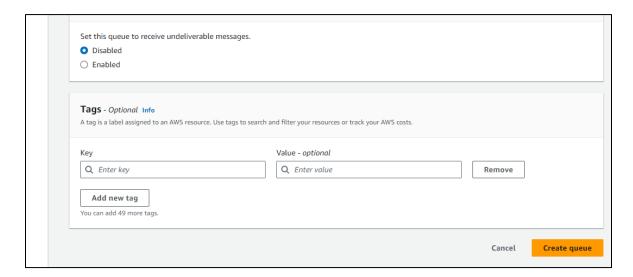




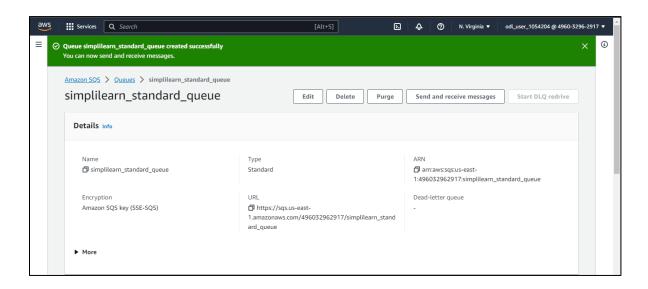
1.4 In the Configuration section, set the **Delivery delay** to **4 Seconds** and the **Receive** message wait time to **5 Seconds**



1.5 Keep the default values, and click on the Create queue button



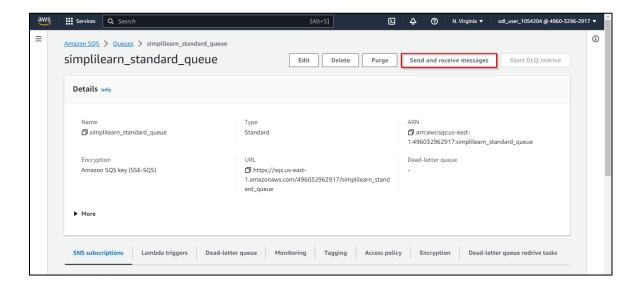




The queue has been created successfully.

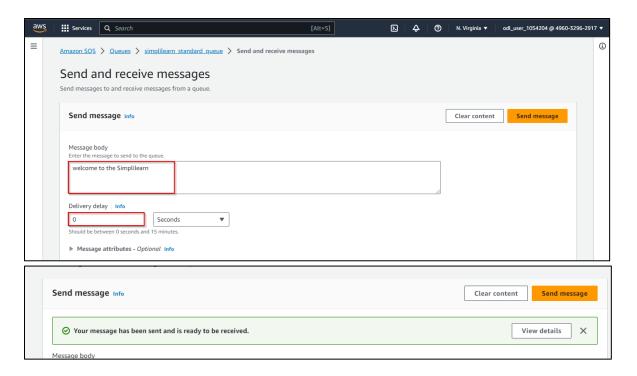
Step 2: Send and receive messages

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** button



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 it

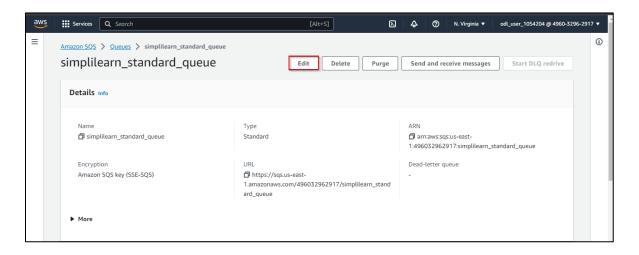




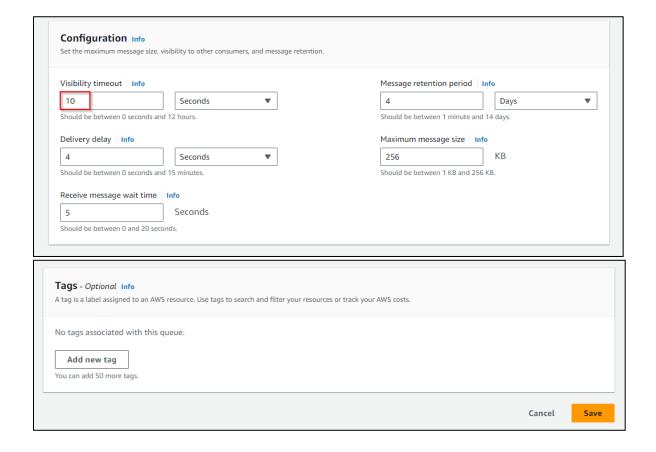


Step 4: Edit visibility timeout

4.1 Select simplilearn_standard_queue and click Edit

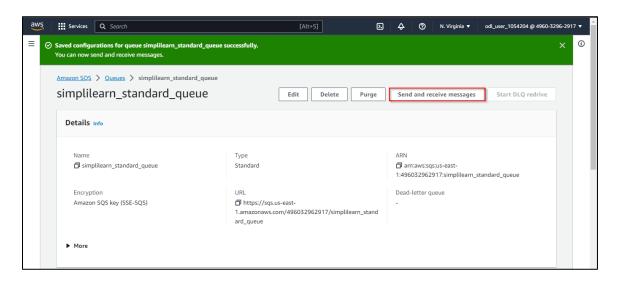


4.2 Set the Visibility timeout to 10 Seconds and click on the Save button

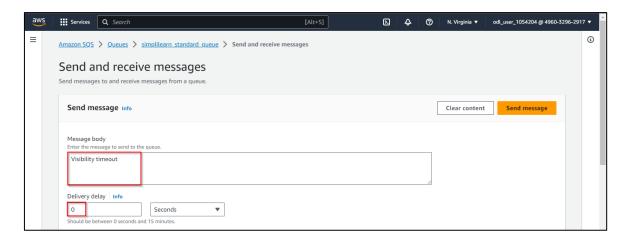




4.3 Click on the Send and receive messages option

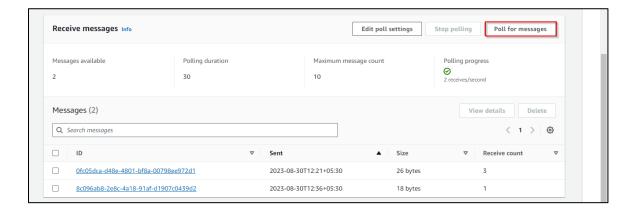


4.2 In the **Message body** section, enter the **Visibility timeout**, set the **Delivery delay** to **0 Seconds**, and click on the **Send message** button



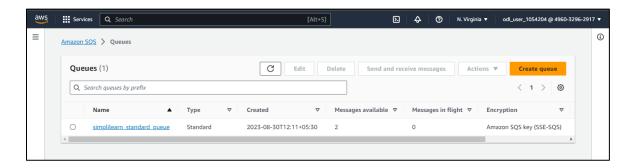


4.3 Click on the Poll for messages option

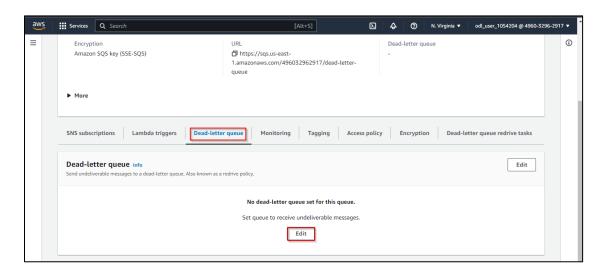


Step 5: Create DLQ

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

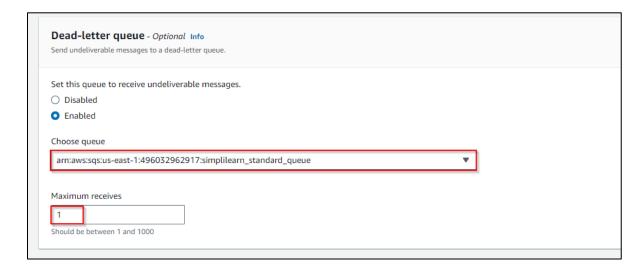


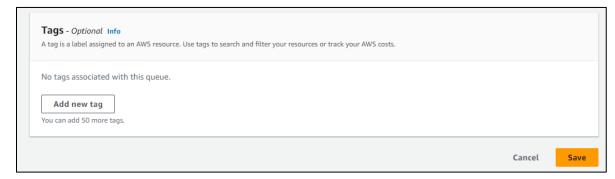
5.2 Navigate to the **Dead_letter queue** and click on the **Edit** button



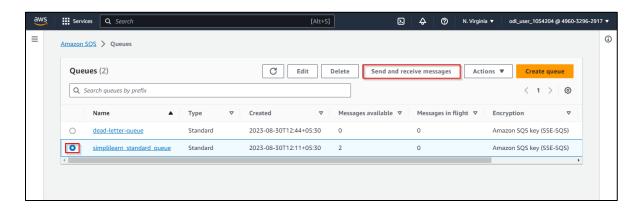


5.3 In the **Dead-letter queue** section, enable it, choose queue as **ARN**, enter the **ARN** of the dead-letter queue, and set **Maximum receives** to **1**



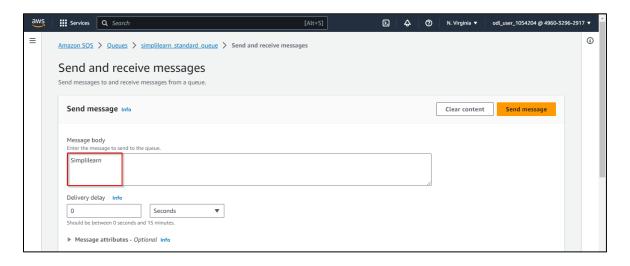


5.4 Select the **Simplilearn_Standard_queue** option and click on the **Send and receive messages** button

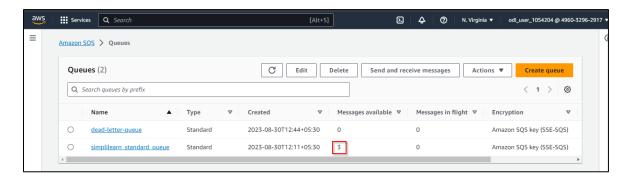




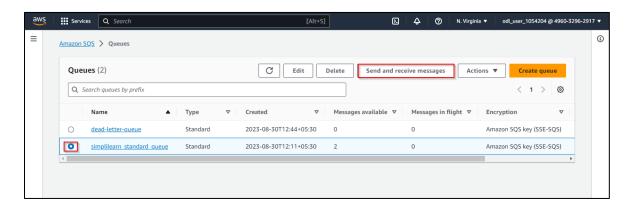
5.5 In the Message body, enter Simplilearn and click on the Send message button



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

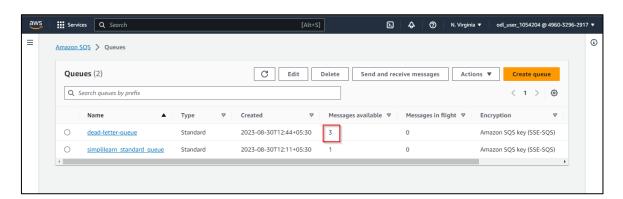




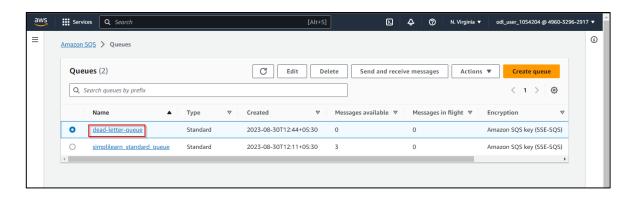
5.8 Click Poll for messages to view the message



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

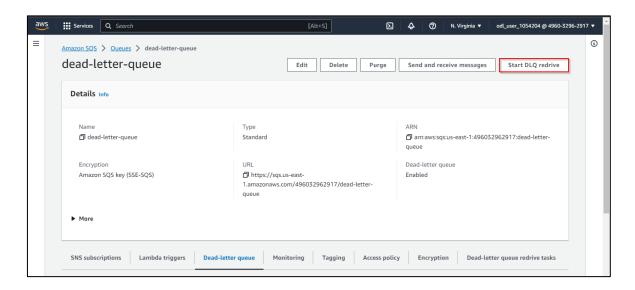


5.10 Click on the dead-letter-queue option

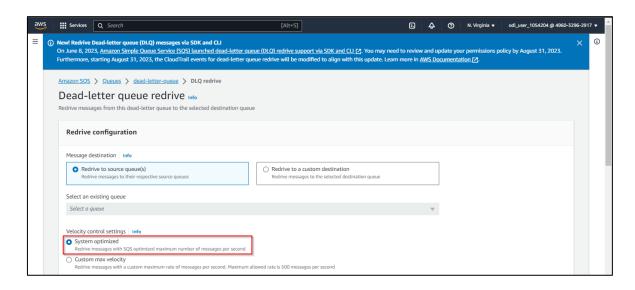




5.11 Click on the Start DLQ redrive button



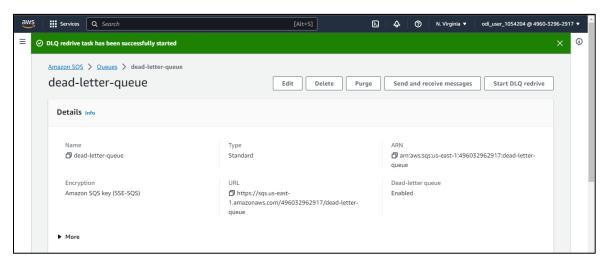
5.12 In the **Velocity control settings**, select the **System optimized** option





5.13 Click on the **DLQ redrive** button

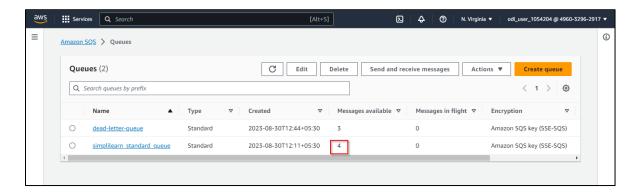




The DLQ redrive has been successfully created.



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.