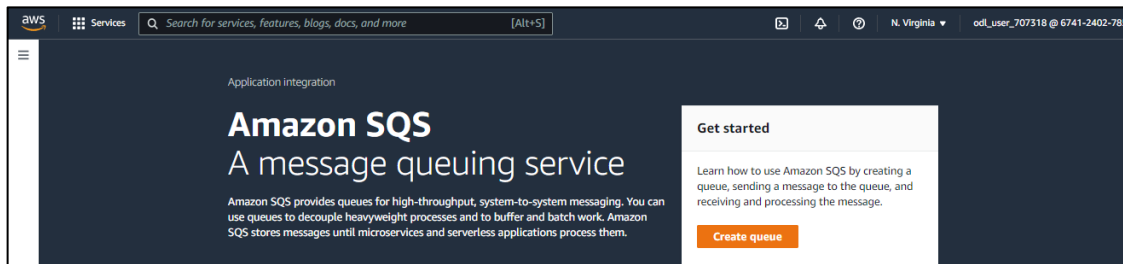


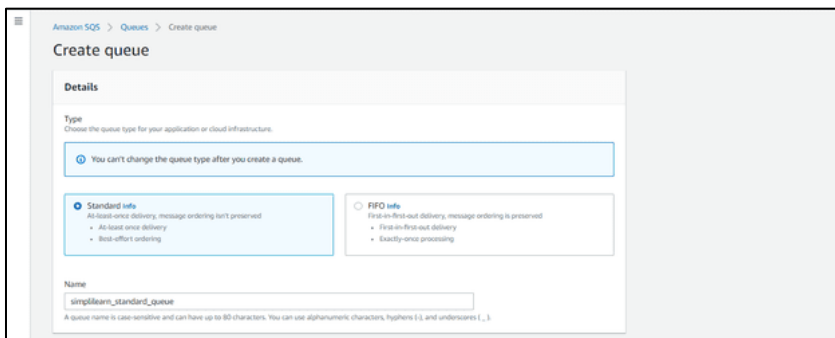
SQS Standard Queue, Visibility Timeout, DLQ

Step 1: Create Standard SQS Queue

- 1.1 In the dashboard, search and select the **Simple Queue Service** and Click on the **Create queue** button:



- 1.2 In the **Details** section, specify the **Type** as **Standard** and **Name** as **simplilearn_standard_queue**:



- 1.3 In the **Configuration** section, Specify the **Visibility timeout** as 30, **Delivery delay** as 4, and **Receive message wait time** as 5:

The screenshot shows the 'Create queue' page in the AWS IAM console. The queue name is 'simplilearn_standard_queue'. The configuration section includes the following settings:

- Visibility timeout:** 30 seconds
- Message retention period:** 4 days
- Delivery delay:** 4 seconds
- Maximum message size:** 256 KB
- Receive message wait time:** 5 seconds

1.4 In the **Access policy**, keep the values default and click on the **Create queue** button:

The screenshot shows the 'Access policy' section of the 'Create queue' page. It includes two optional sections: 'Dead-letter queue' and 'Tags'. At the bottom, there are 'Cancel' and 'Create queue' buttons.

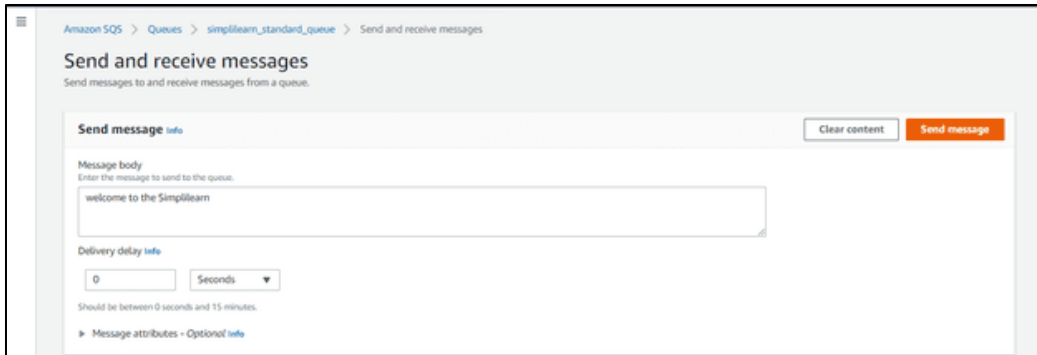
Step 2: Send and Receive Messages

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

The screenshot shows the 'Queue details' page for the 'simplilearn_standard_queue'. A green notification banner at the top states: 'Queue simplilearn_standard_queue created successfully. You can now send and receive messages.' The page includes buttons for 'Edit', 'Delete', 'Purge', 'Send and receive messages', and 'Start DLQ redrive'. The details section shows the queue name, type (Standard), and ARN.

2.2 In the **Send message** section, Specify the following values:

1. Message body: welcome to the Simplilearn
2. Delivery delay: 0
3. Click on the **Send message** button



Step 3: Message Polling

3.1 Click on the **Poll for messages** button:

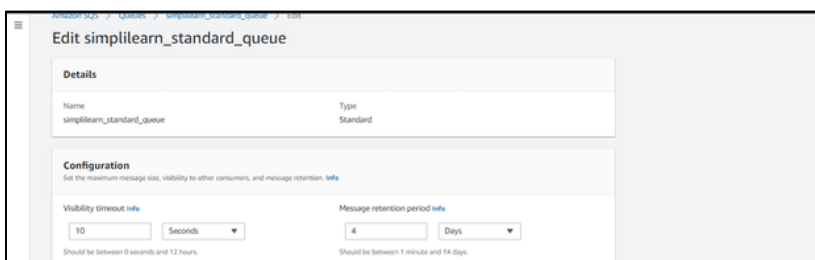


3.2 In the **Messages**, a message will appear. Click on the message **ID**, in the **Body** tab we can see the sent message:



Step 4: Visibility Timeout

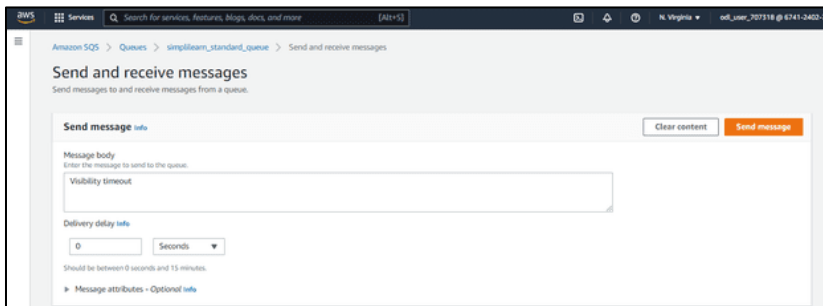
4.1 Select the **Simplilearn_Standard_queue**. Edit the **Visibility timeout**. Click on the **Save** button.



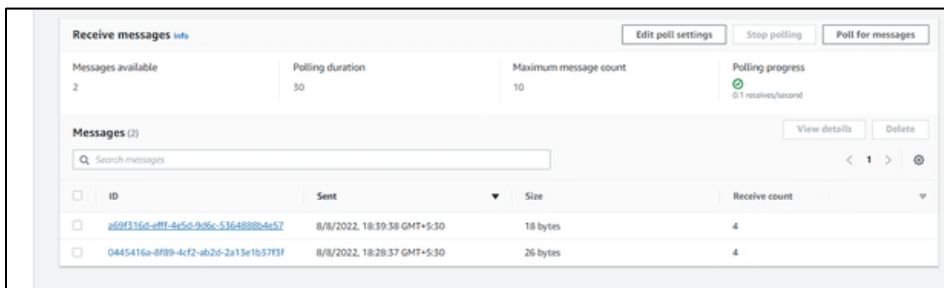
4.2 Click on the **Send and receive messages**.



4.3 In the Message body enter **Visibility timeout**. Click on the **Send message** button.

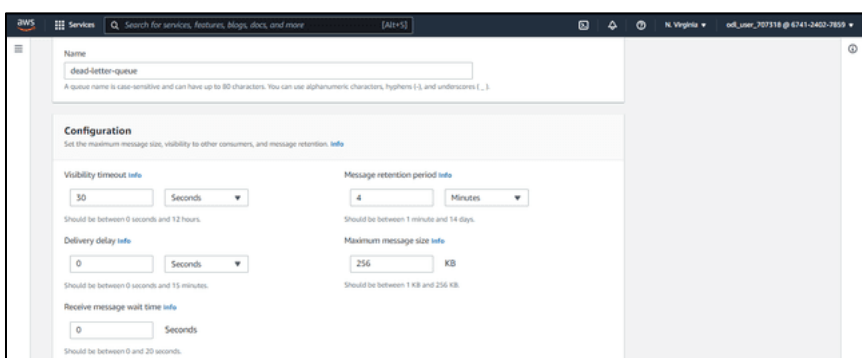


4.4 Click on the **Poll for messages** button. Message will appear in the **Messages** section.

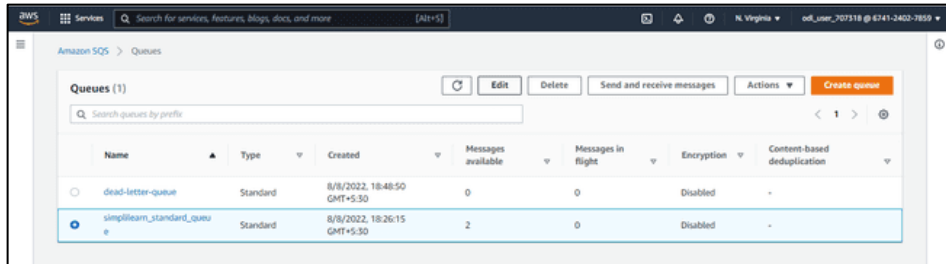


Step 5: Create DLQ

5.1 Create another queue named as **dead-letter-queue**.

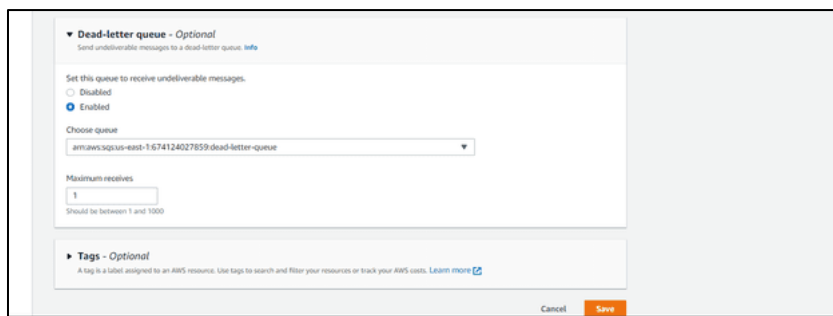


5.2 Click on the **Create queue** button. Click on the **Simplilearn_Standard_queue**. Then click on **Edit** button.

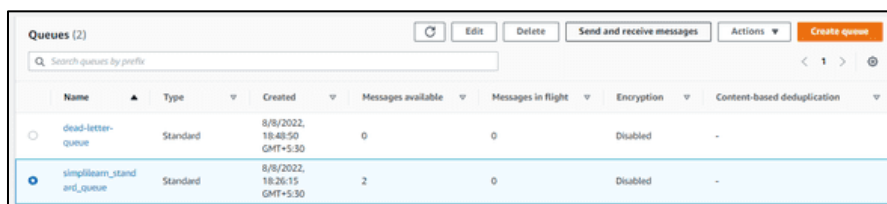


1.3 In the **Dead-letter-queue** section, specify the following values:

1. Set this queue to receive undeliverable messages: Enabled
2. Choose queue: select the dead-letter-queue
3. Maximum receives: 1



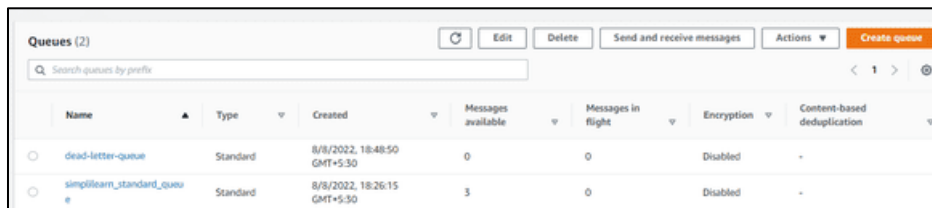
1.4 Click on the **Save** button. Select the **Simplilearn_Standard_queue** and click on the **Send and receive messages**.



1.5 In the **Message body**, enter **Simplilearn** and click on the **Send message** button.

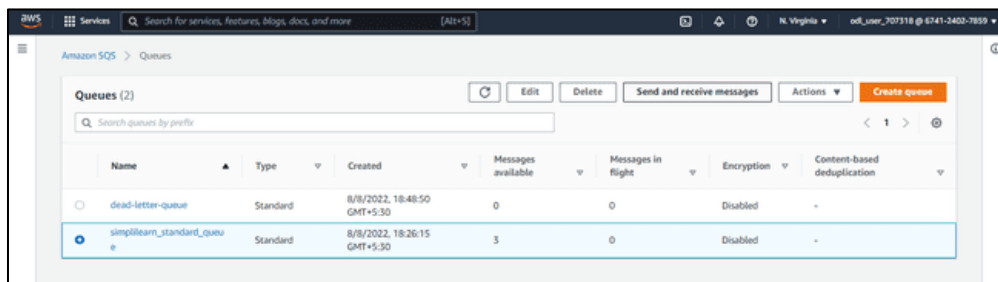


1.6 Go back to **Queues**, in the **Message available** we can see the total count is **3**.



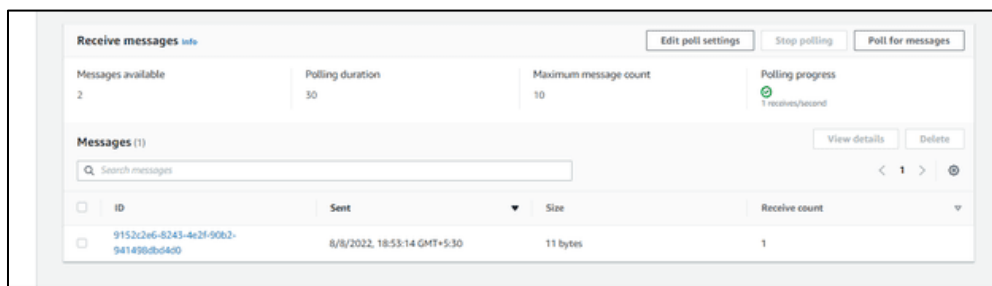
Name	Type	Created	Messages available	Messages in flight	Encryption	Content-based deduplication
dead-letter-queue	Standard	8/8/2022, 18:48:50 GMT+5:30	0	0	Disabled	-
simplilearn_standard_queue	Standard	8/8/2022, 18:26:15 GMT+5:30	3	0	Disabled	-

1.7 Select the **Simplilearn_Standard_queue**, click on the **Send and receive messages**.



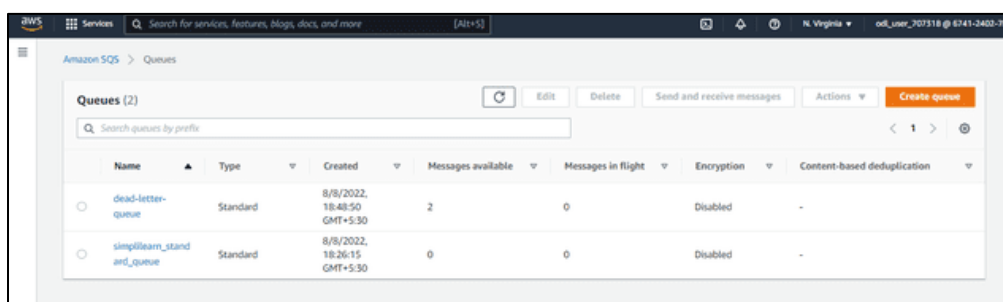
Name	Type	Created	Messages available	Messages in flight	Encryption	Content-based deduplication
dead-letter-queue	Standard	8/8/2022, 18:48:50 GMT+5:30	0	0	Disabled	-
simplilearn_standard_queue	Standard	8/8/2022, 18:26:15 GMT+5:30	3	0	Disabled	-

1.8 Click on the **Poll for messages**. The message will appear.



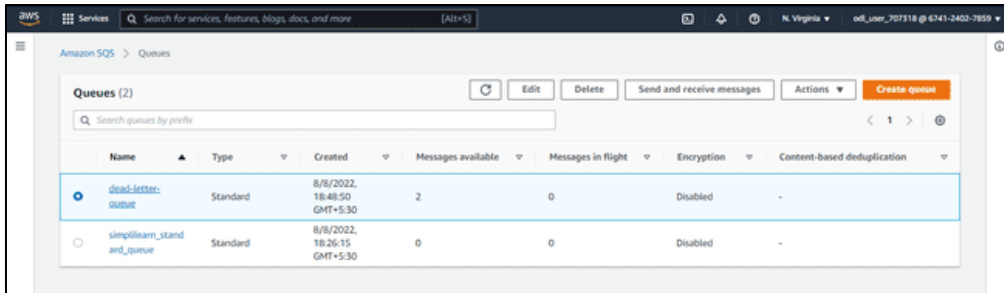
ID	Sent	Size	Receive count
9152c2e6-8243-4e2f-90b2-94149db5d400	8/8/2022, 18:53:14 GMT+5:30	11 bytes	1

1.9 Go back to **Queues** page. Refresh the page 2-3 times. We will see messages are moved into **dead-letter-queue**.

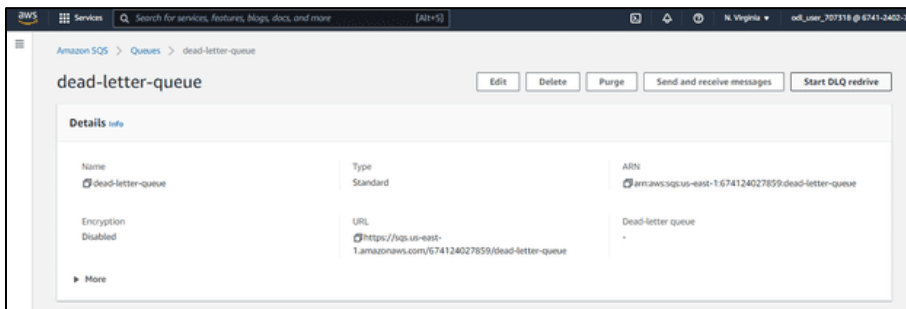


Name	Type	Created	Messages available	Messages in flight	Encryption	Content-based deduplication
dead-letter-queue	Standard	8/8/2022, 18:48:50 GMT+5:30	2	0	Disabled	-
simplilearn_standard_queue	Standard	8/8/2022, 18:26:15 GMT+5:30	0	0	Disabled	-

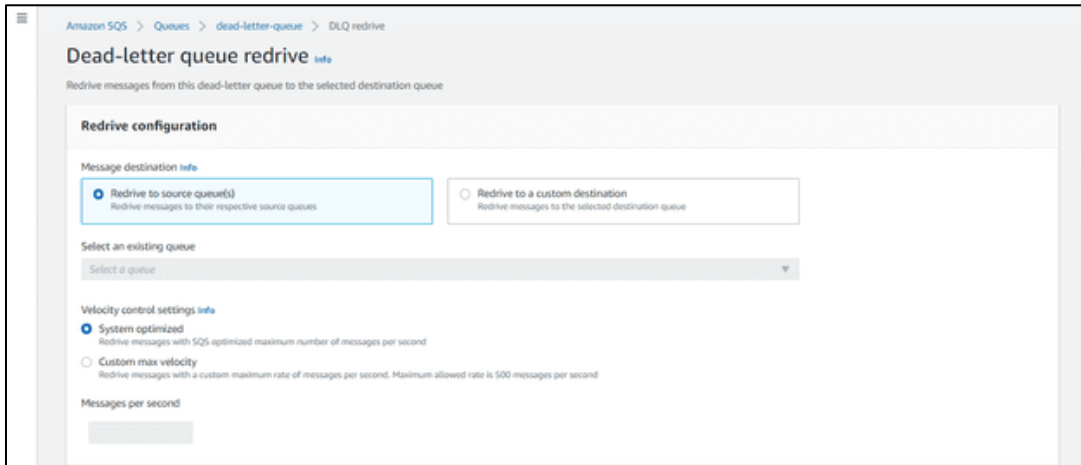
1.10 Click on the **dead-letter-queue**.



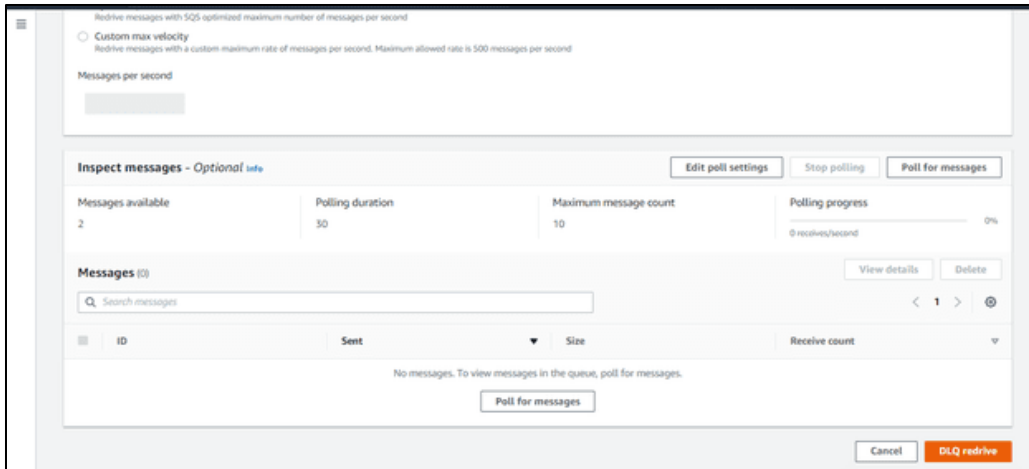
1.11 Click on the **Start DLQ redrive** button.



1.12 In the **Velocity control settings**, select **System optimized**.



1.13 Click on the **DLQ redrive** button.



1.14 Go back to **Queues** page. We will see message is sent back to **Simplilearn_Standard_queue**.

