

Assignment 7 – SQS and SNS

Today's tasks:

1. Create SNS topic and subscription, publish a message via AWS CLI
2. Create SQS queue via AWC CLI

Play with:

- Deduplication and group id in FIFO by sending messages from console.

Bonus task:

- Test subscription filter. Share your result.

Submit items below in one pdf file:

1. Screenshots of the command prompt creating SNS and SQS

Instruction 1. Install and configure AWS CLI

1. All instructions are here: <https://docs.aws.amazon.com/cli/latest/userguide/cli-chap-getting-started.html>
2. Start lab -> In tabs, select AWS Details -> You will see AWS CLI -> Click on Show button. It will give tokens.
3. Copy tokens from AWS academy to **.aws/credentials** file. Files and folders with dot are hidden. Change the configuration to see it if need.

Instruction 2. Create SNS topic and subscription, publish a message via AWS CLI

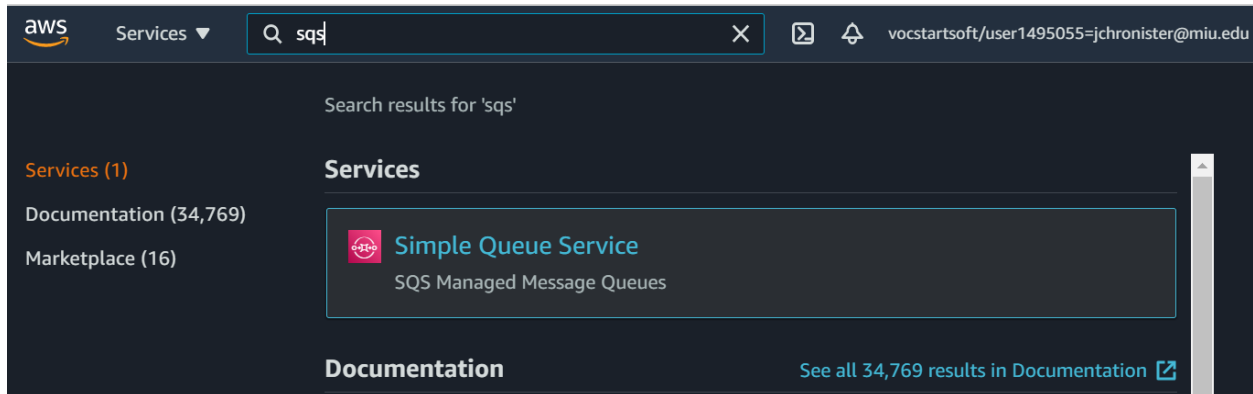
4. `aws sns create-topic --name my-topic` -> It will return topic ARN that you need when executing the next AWS CLI commands for AWS CLI.
5. `aws sns subscribe --topic-arn <<your-topic-arn>> --protocol email --notification-endpoint <<your-email>>` -> For example, `aws sns subscribe --topic-arn arn:aws:sns:us-east-1:170500536393:my-topic --protocol email --notification-endpoint utumenbayar@miu.edu`
6. Check your email and confirm your subscription.
7. `aws sns publish --topic-arn <<your-topic-arn>> --message <<any message>>` -> If there are more than one word in the message. Write it inside double quotes.

Instruction 3. Create SQS queue via AWC CLI.

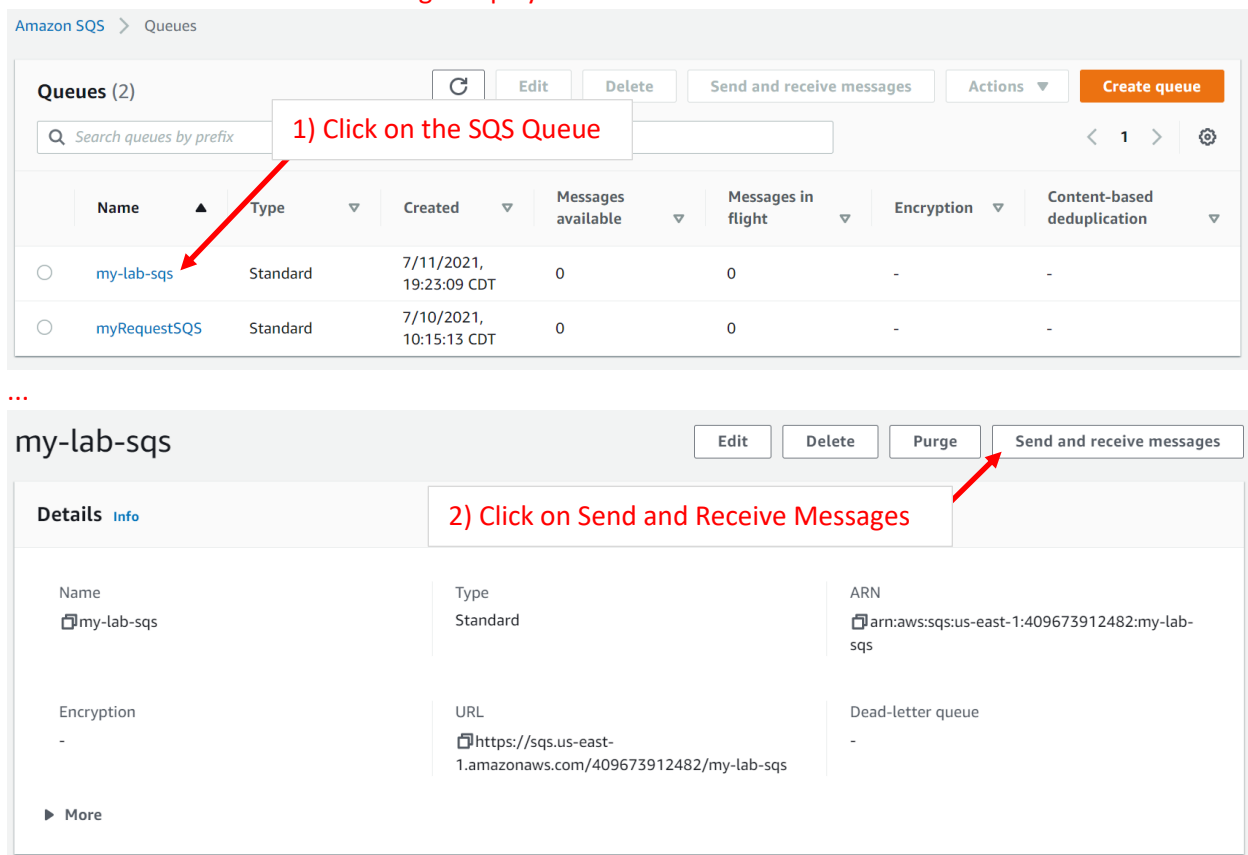
8. `aws sqs create-queue --queue-name my-queue`
9. Send and poll messages on AWS Console.

Instruction 4. Test SQS on AWS console

Go to the Simple Queue Service Display



Go to the Send and Receive Message Display



Send Message

Amazon SQS > Queues > my-lab-sqs > 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.

Delivery delay [Info](#)
 [Seconds](#) ▼
Should be between 0 seconds and 15 minutes.
▶ [Message attributes - Optional](#) [Info](#)

1) Create Message Text

2) Click Send Message

Poll for Messages

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

Messages (1)

[View details](#) [Delete](#)

<input type="checkbox"/>	ID	Sent	Size	Receive count
<input type="checkbox"/>	661e6a3e-4bdf-4842-832a-5df834d5785d	7/11/2021, 19:38:45 CDT	17 bytes	1

1) Click Poll for Messages

2) Click on Message to View

Message: 661e6a3e-4bdf-4842-832a-5df834d5785d [X](#)

[Details](#) [Body](#) [Attributes](#)

First SQS Message

[Done](#)