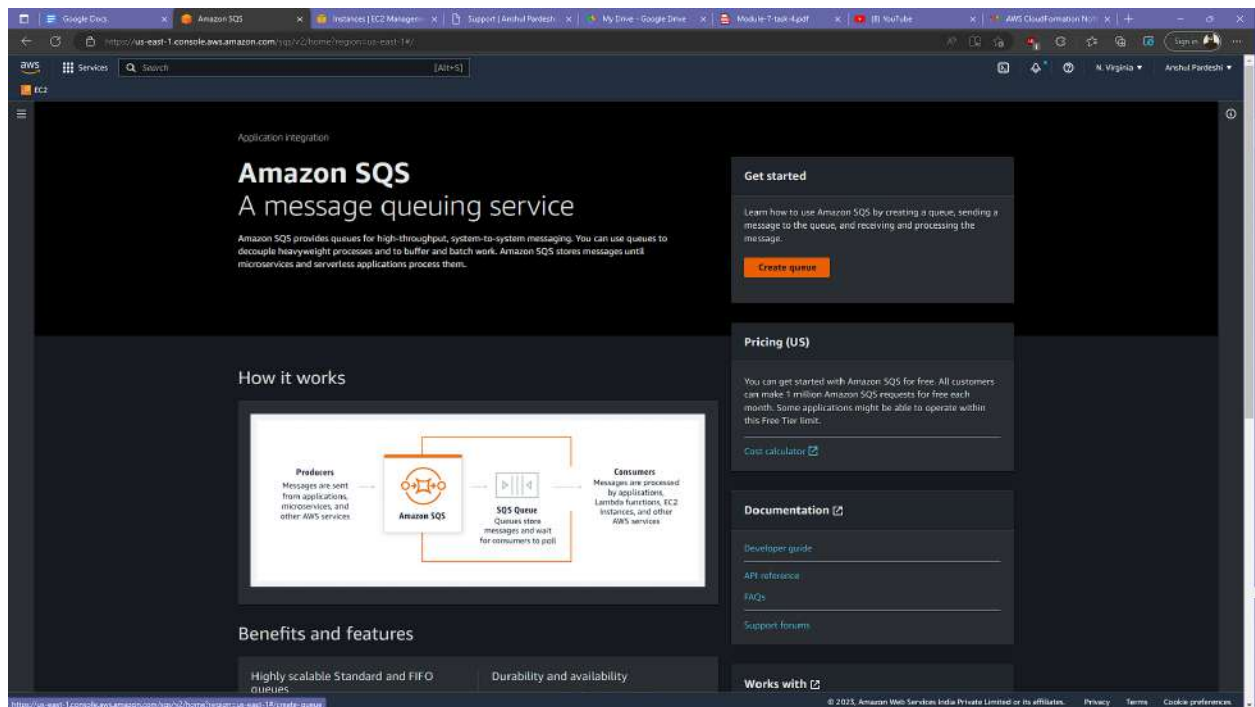


## Module-7: SQS and SES Assignment - 4

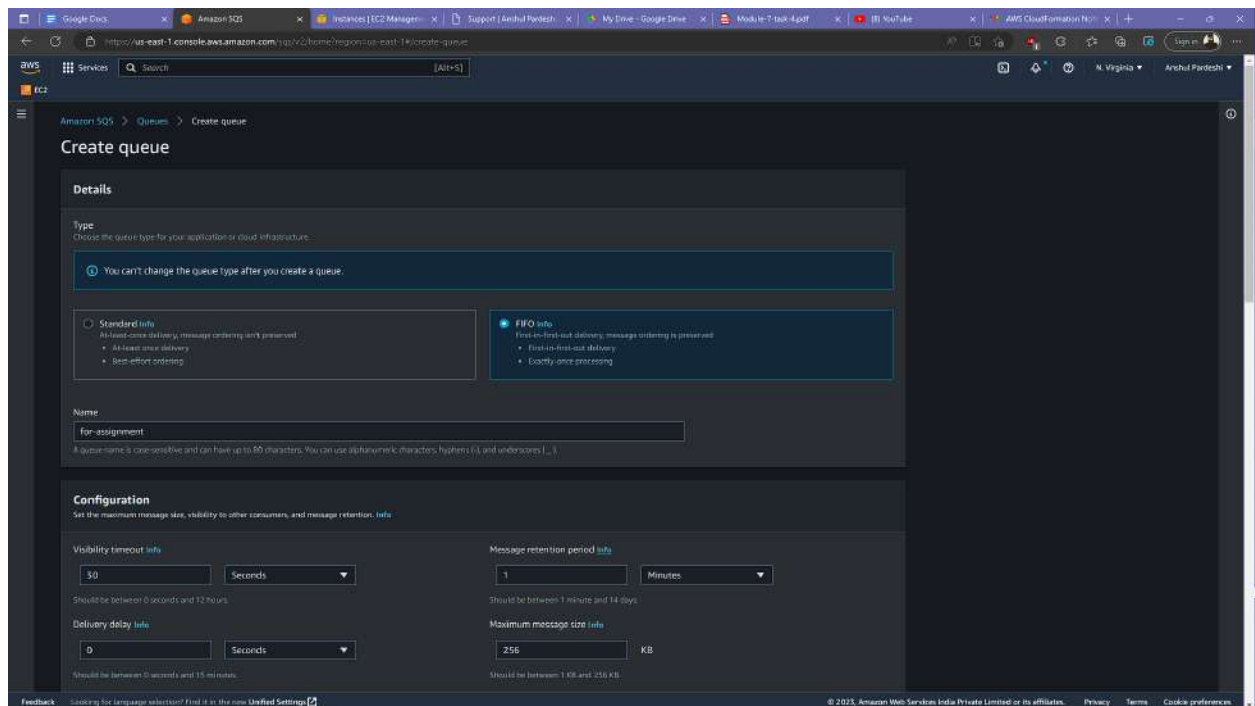
You have been asked to:

1. Create a FIFO SQS Queue and test by sending messages .
2. Register your mail in SES and send a test mail to yourself.

To create FIFO SQS go to SQS dashboard.



Select FIFO and select less retention time because we are testing.



Let all other fields be default.

Deployed all messages in a queue. Apply the throughput limit at the queue level.

Message group. Deployed all messages that belong to the same message group. Per message group ID. Apply the throughput limit at the message group level.

### Encryption

Amazon SQS provides in-transit encryption by default. To add at-rest encryption to your queue, enable server-side encryption. [Info](#)

Server side encryption

☐ Disabled

☒ Enabled

Encryption key type

☒ Amazon SQS key (SSE-SQS)  
An encryption key that Amazon SQS creates, manages, and uses for you.

☐ AWS Key Management Service key (SSE-KMS)  
An encryption key protected by AWS Key Management Service (AWS KMS).

### Access policy

Define who can access your queue. [Info](#)

Choose method

☒ Basic  
Use simple criteria to define a basic access policy.

☐ Advanced  
Use a JSON object to define an advanced access policy.

Define who can send messages to the queue

☒ Only the queue owner  
Only the owner of the queue can send messages to the queue.

☐ Only the specified AWS accounts, IAM users and roles  
Only the specified AWS account IDs, IAM users and roles can send messages to the queue.

Define who can receive messages from the queue

☒ Only the queue owner  
Only the owner of the queue can receive messages from the queue.

☐ Only the specified AWS accounts, IAM users and roles  
Only the specified AWS account IDs, IAM users and roles can receive messages from the queue.

JSON (read-only)

```
{
  "Version": "2008-10-17",
  "Id": "_default_policy_ID",
  "Statement": [
    {
      "Sid": "_owner_statement",
      "Effect": "Allow",
      "Principal": {
        "AWS": "994272653862"
      },
      "Action": [
        "SQS:*"
      ]
    }
  ]
}
```

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Create.

Define who can access your queue. [Info](#)

Choose method

☒ Basic  
Use simple criteria to define a basic access policy.

☐ Advanced  
Use a JSON object to define an advanced access policy.

Define who can send messages to the queue

☒ Only the queue owner  
Only the owner of the queue can send messages to the queue.

☐ Only the specified AWS accounts, IAM users and roles  
Only the specified AWS account IDs, IAM users and roles can send messages to the queue.

Define who can receive messages from the queue

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Only the owner of the queue can receive messages from the queue.

☐ Only the specified AWS accounts, IAM users and roles  
Only the specified AWS account IDs, IAM users and roles can receive messages from the queue.

JSON (read-only)

```
{
  "Version": "2008-10-17",
  "Id": "_default_policy_ID",
  "Statement": [
    {
      "Sid": "_owner_statement",
      "Effect": "Allow",
      "Principal": {
        "AWS": "994272653862"
      },
      "Action": [
        "SQS:*"
      ],
      "Resource": "arn:aws:sqs:us-east-1:994272653862:for-assignment"
    }
  ]
}
```

Redrive allow policy - Optional  
Identify which source queues can use this queue as the dead-letter queue. [Info](#)

Dead-letter queue - Optional  
Send undeliverable messages to a dead-letter queue. [Info](#)

Tags - Optional  
A tag is a label assigned to an AWS resource. Use tags to search and filter your resources or track your AWS costs. [Learn more](#)

Cancel Create queue

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## Select Send and Receive messages.

The screenshot shows the Amazon SQS console for a queue named 'for-assignment.fifo'. The 'Details' section displays the queue's name, type (FIFO), ARN, encryption key, and URL. Below this, the 'Send and receive messages' tab is selected, showing the 'Subscription region' as 'us-east-1'. The 'SNS subscriptions' section is empty, with a 'Subscribe to Amazon SNS topic' button. The 'Dead-letter queue' is also empty.

## Add your message and send the message.

The screenshot shows the 'Send and receive messages' tab in the Amazon SQS console. The 'Send message' section is active, showing a message body of 'this is testy message for sqs assignment'. The 'Message group ID' is 'sqsmessage3' and the 'Message deduplication ID' is 'sqsmessage3'. The 'Receive messages' section shows 'Messages available' as 0, 'Polling duration' as 30, and 'Maximum message count' as 10. The 'Polling progress' is 0%. The 'Messages' section is empty, with a 'View details' button.

Message has been received.

The screenshot shows the AWS Management Console for Amazon SQS. The 'Send message' section is active, displaying a green success message: 'Your message has been sent and is ready to be received.' Below this, the 'Message body' is 'this is testy message for sqs assignment'. The 'Message group ID' is 'sqsmsg3' and the 'Message deduplication ID' is 'sqsmsgn'. The 'Receive messages' section shows 'Messages available: 1', 'Polling duration: 30', and 'Maximum message count: 10'. A table of messages shows one message with ID 'bee13e56-2681-4934-8284-e80c92b70f55' sent on Jan 11, 2023, with a size of 40 bytes and a receive count of 1.

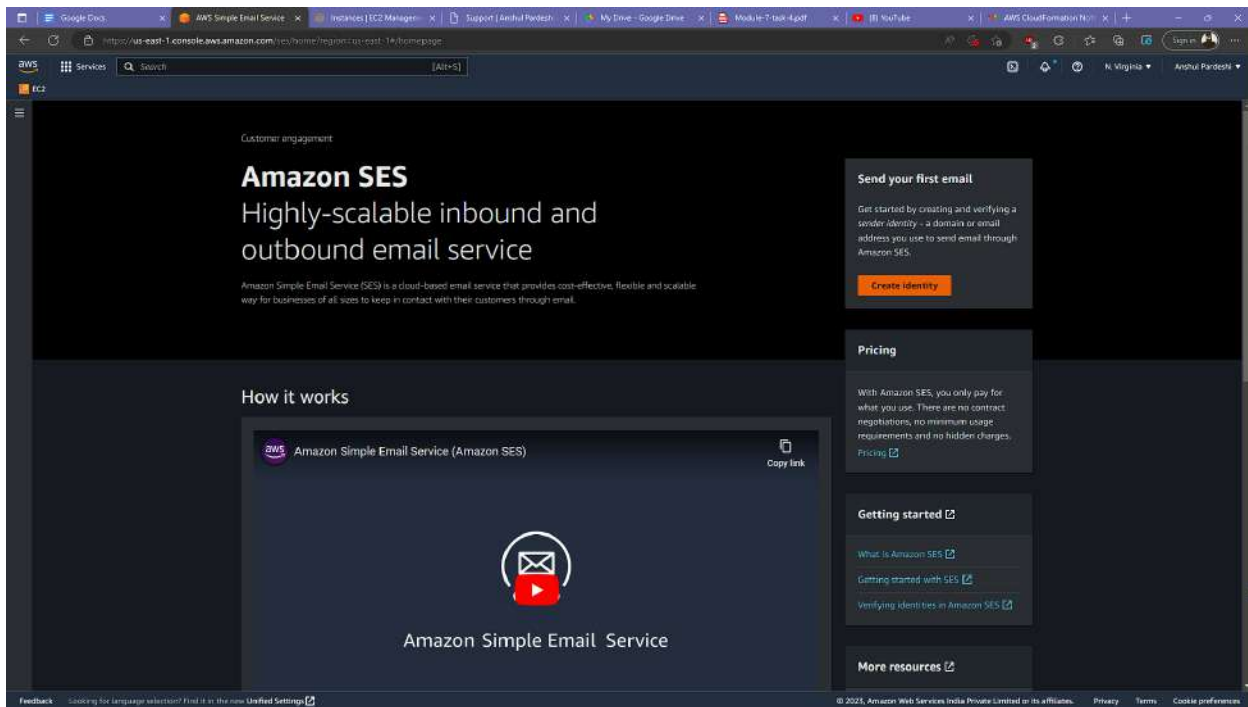
| ID                                   | Sent                            | Size     | Receive count |
|--------------------------------------|---------------------------------|----------|---------------|
| bee13e56-2681-4934-8284-e80c92b70f55 | Jan 11, 2023, 00:34:13 GMT+5:30 | 40 bytes | 1             |

This is it.

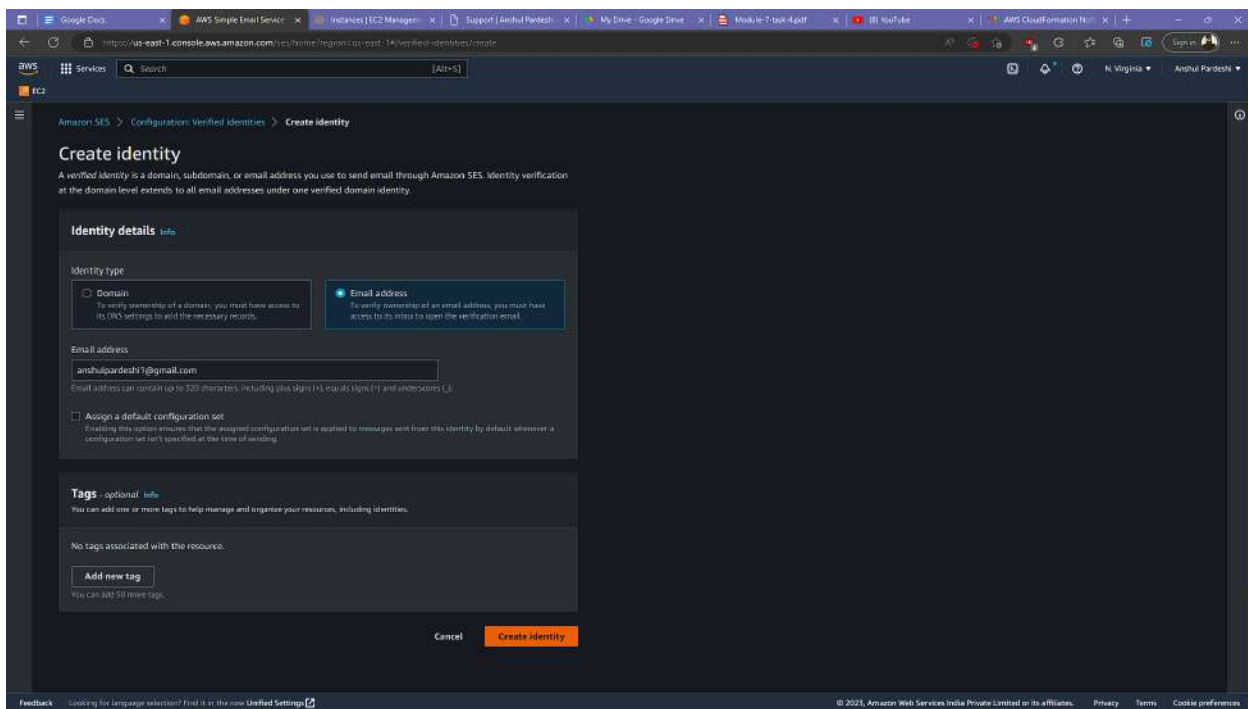
The screenshot shows the AWS Management Console for Amazon SQS. The 'Send message' section is active, displaying a green success message: 'Your message has been sent and is ready to be received.' Below this, the 'Message body' is 'this is testy message for sqs assignment'. The 'Message group ID' is 'sqsmsg3' and the 'Message deduplication ID' is 'sqsmsgn'. The 'Receive messages' section shows 'Messages available: 1', 'Polling duration: 30', and 'Maximum message count: 10'. A modal window titled 'Message: bee13e56-2681-4934-8284-e80c92b70f55' is open, showing the message body 'this is testy message for sqs assignment'. The 'Receive messages' section shows 'Messages available: 1', 'Polling duration: 30', and 'Maximum message count: 10'. A table of messages shows one message with ID 'bee13e56-2681-4934-8284-e80c92b70f55' sent on Jan 11, 2023, with a size of 40 bytes and a receive count of 1.

| ID                                   | Sent                            | Size     | Receive count |
|--------------------------------------|---------------------------------|----------|---------------|
| bee13e56-2681-4934-8284-e80c92b70f55 | Jan 11, 2023, 00:34:13 GMT+5:30 | 40 bytes | 1             |

For SES, go to Amazon SES dashboard. Create identity.

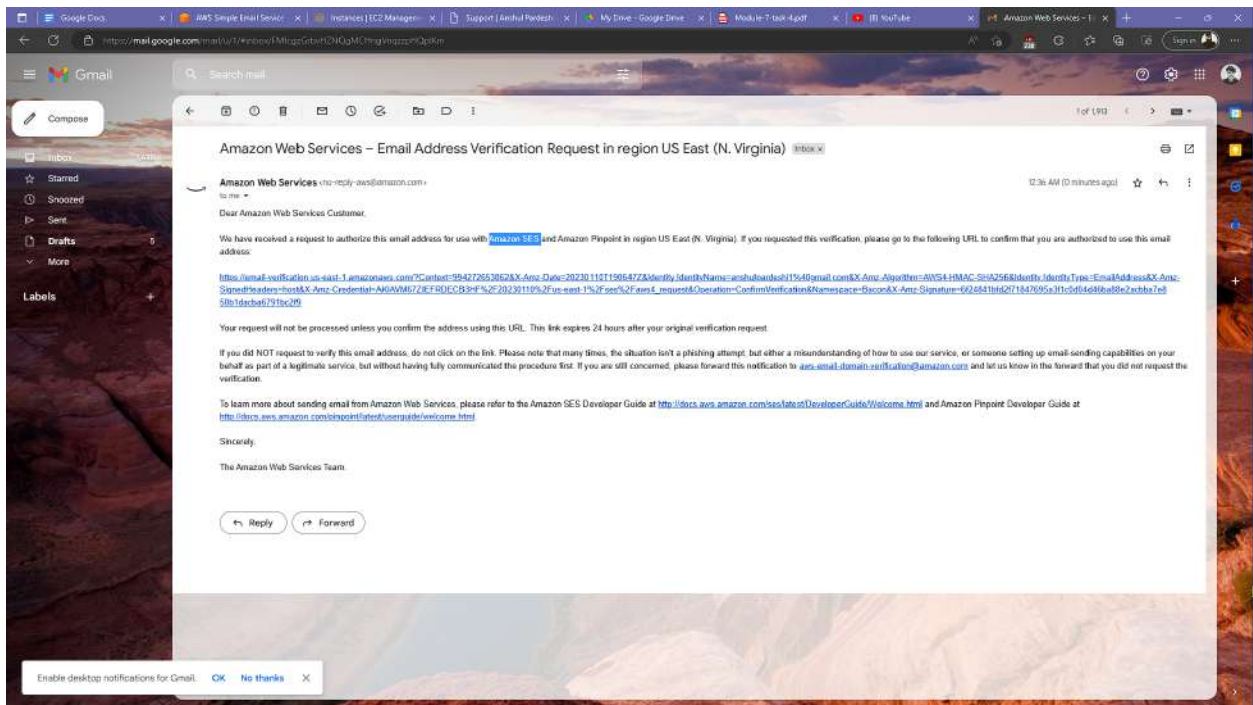


Select Email address and add the email.

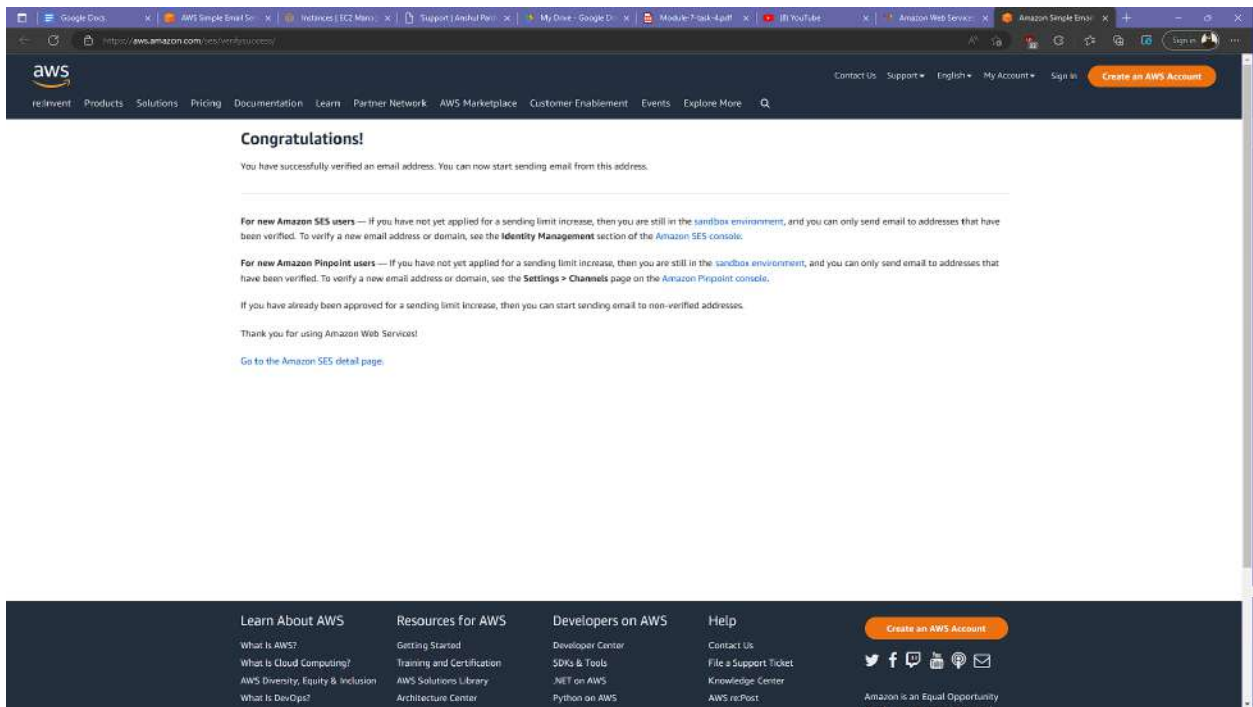


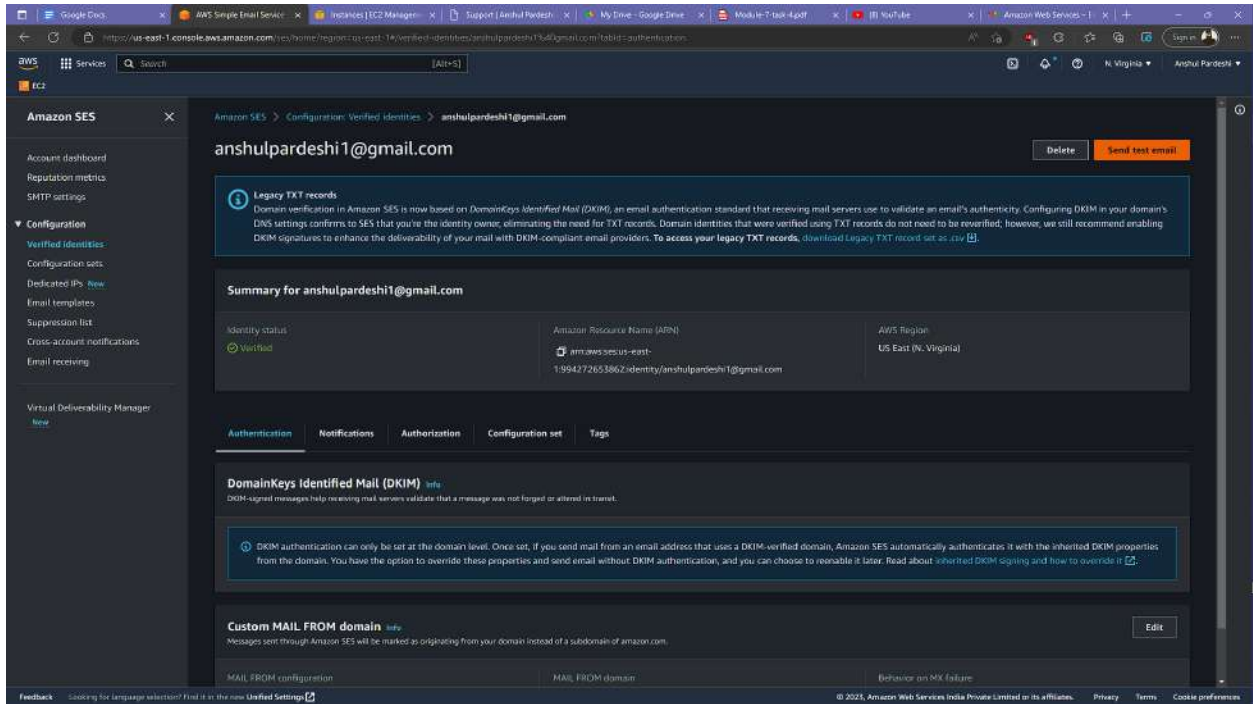


Click on the link for subscription.

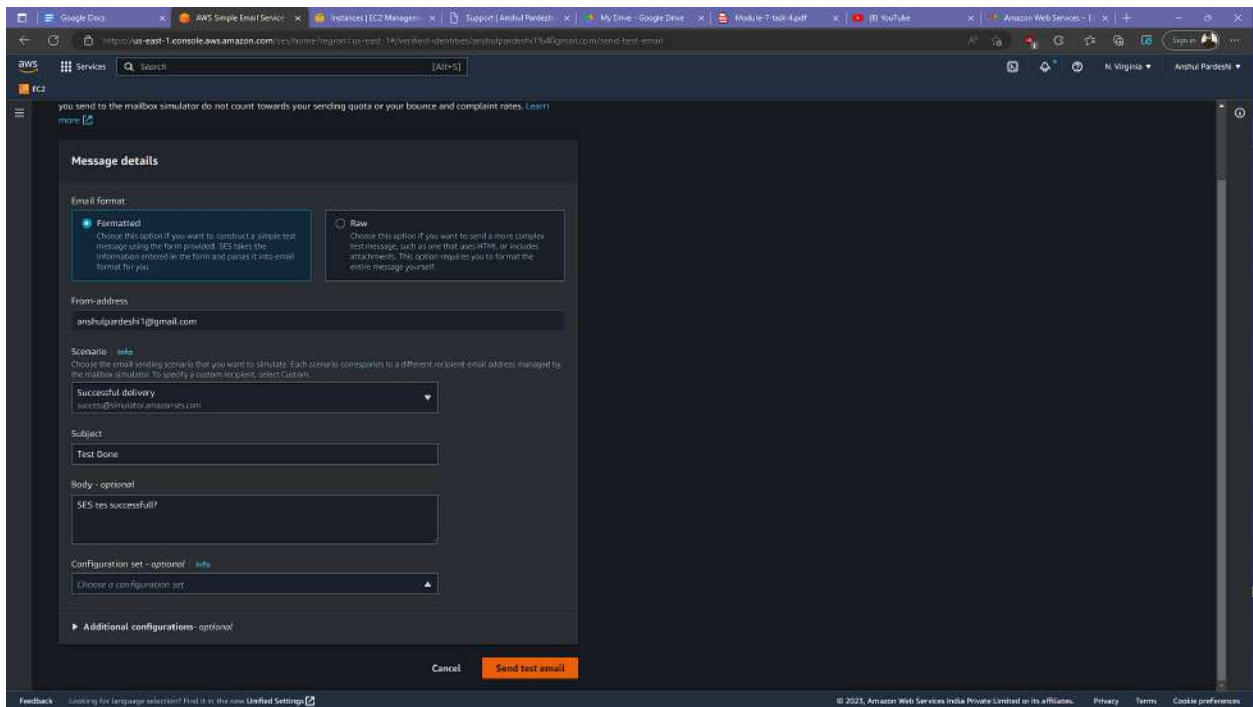


Done.





## Use SES and send the test message.



Test message received.

