

## CSC PRACTICAL – 10

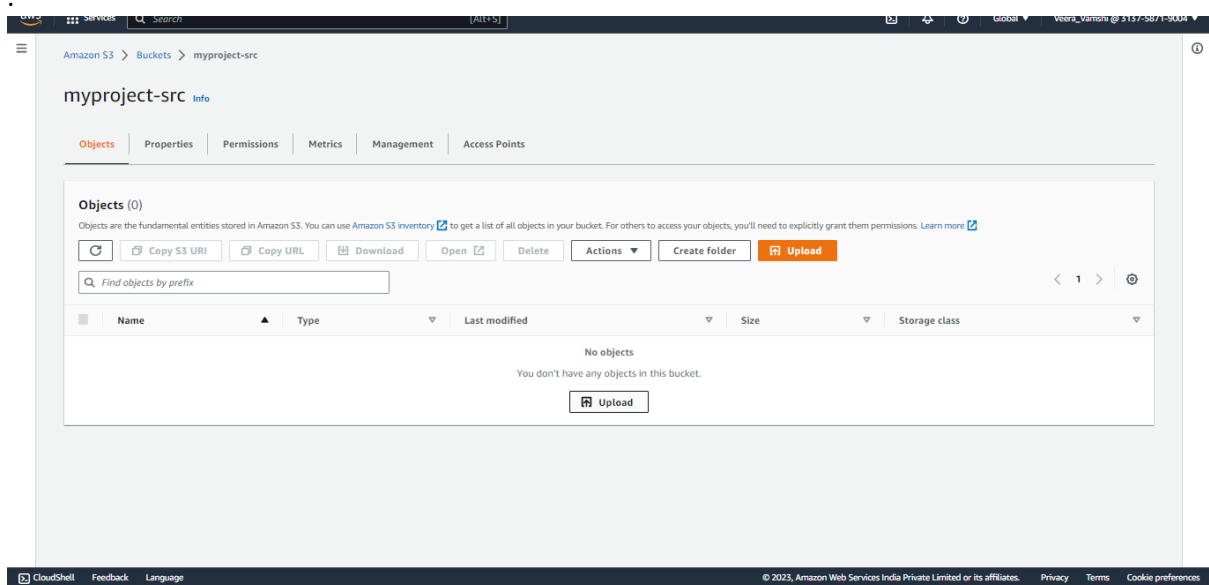
Name: K.Nitin reddy

ID no: 2000030510

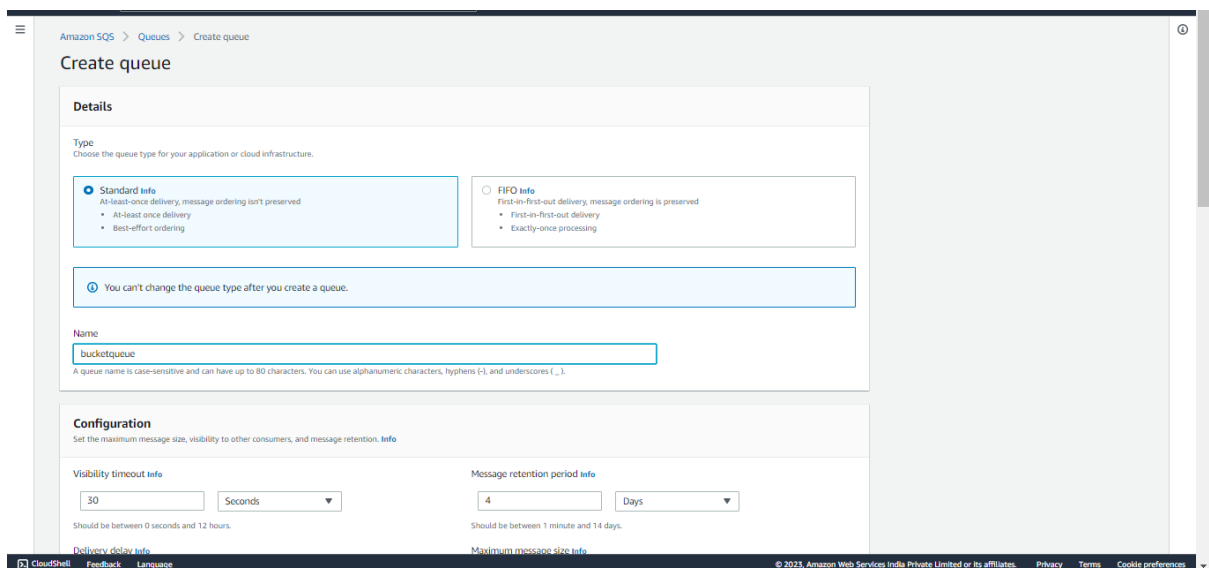
Sec: 13

Configuring a bucket, should make notifications (SNS topic or SQS queue)

Create Bucket:



Create a SQS everything as default:



Policy needs to be updated as follows bucket ARN and ACC ID:

Basic

Use simple criteria to define a basic access policy.

Advanced

Use a JSON object to define an advanced access policy.

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Effect": "Allow",
6       "Action": [
7         "sqs:SendMessage"
8       ],
9       "Resource": [
10        "arn:aws:sqs:us-east-1:1313758719004:queuebucke"
11      ],
12      "Condition": {
13        "ArnLike": {
14          "aws:SourceArn": "arn:aws:s3:::skill110awsrekog"
15        }
16      }
17    }
18  ]
19 }
```

Policy generator

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

CloudShell

Feedback

Language

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Create sns:

Amazon SNS > Topics > Create topic

Create topic

Details

Type [Info](#)

Topic type cannot be modified after topic is created

☐ FIFO (first-in, first-out)

☒ Standard

- Strictly-preserved message ordering
- Exactly-once message delivery
- High throughput, up to 300 publishes/second
- Subscription protocols: SQS

- Best-effort message ordering
- At-least once message delivery
- Highest throughput in publishes/second
- Subscription protocols: SQS, Lambda, HTTP, SMS, email, mobile application endpoints

Name

storenotifitouser

Maximum 256 characters. Can include alphanumeric characters, hyphens (-) and underscores (\_).

Display name - optional [Info](#)

To use this topic with SMS subscriptions, enter a display name. Only the first 10 characters are displayed in an SMS message.

My Topic

Maximum 100 characters.

Encryption - optional

Amazon SNS provides in-transit encryption by default. Enabling server-side encryption adds at-rest encryption to your topic.

Access policy - optional [Info](#)

This policy defines who can access your topic. By default, only the topic owner can publish or subscribe to the topic.

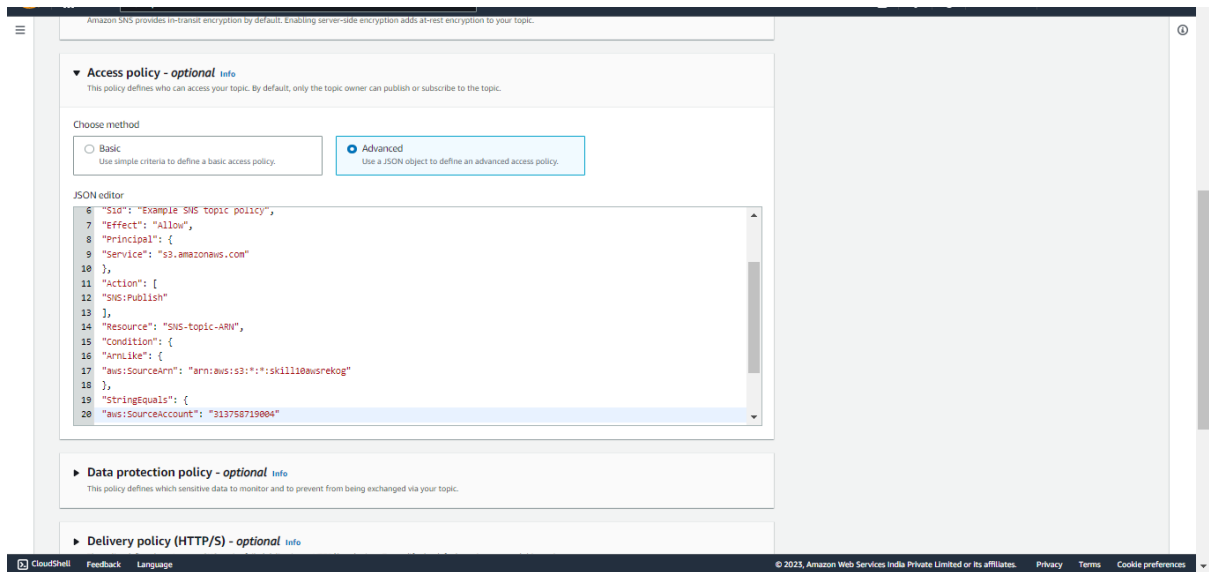
CloudShell

Feedback

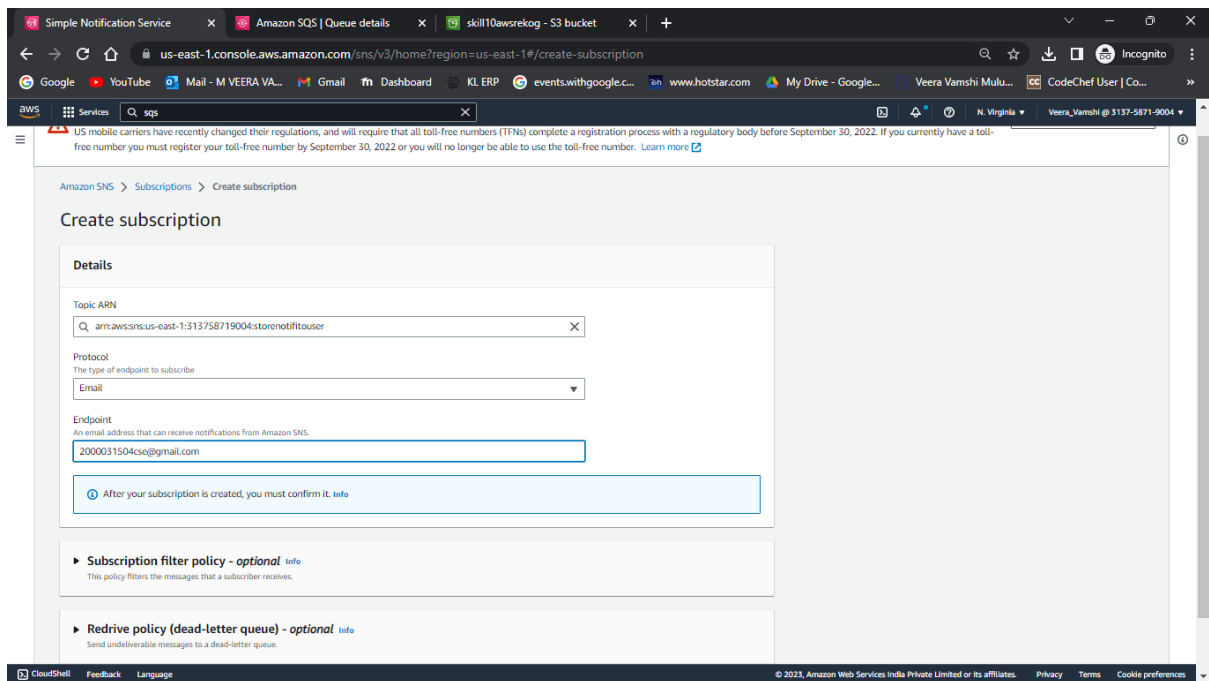
Language

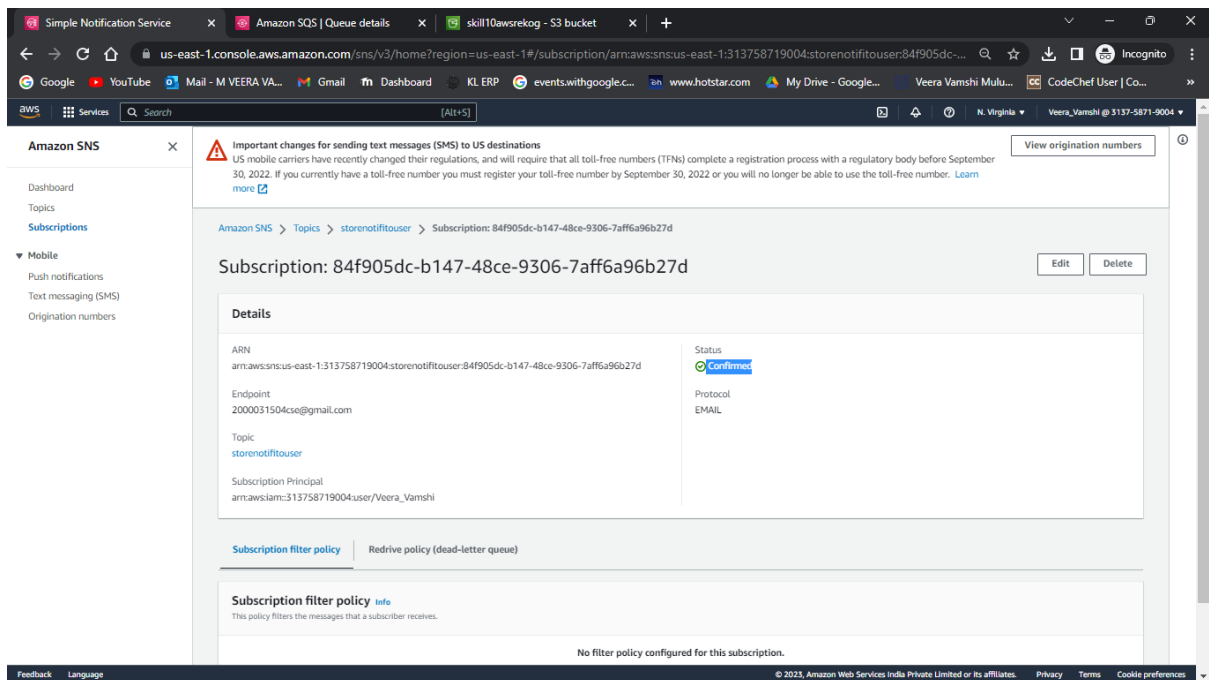
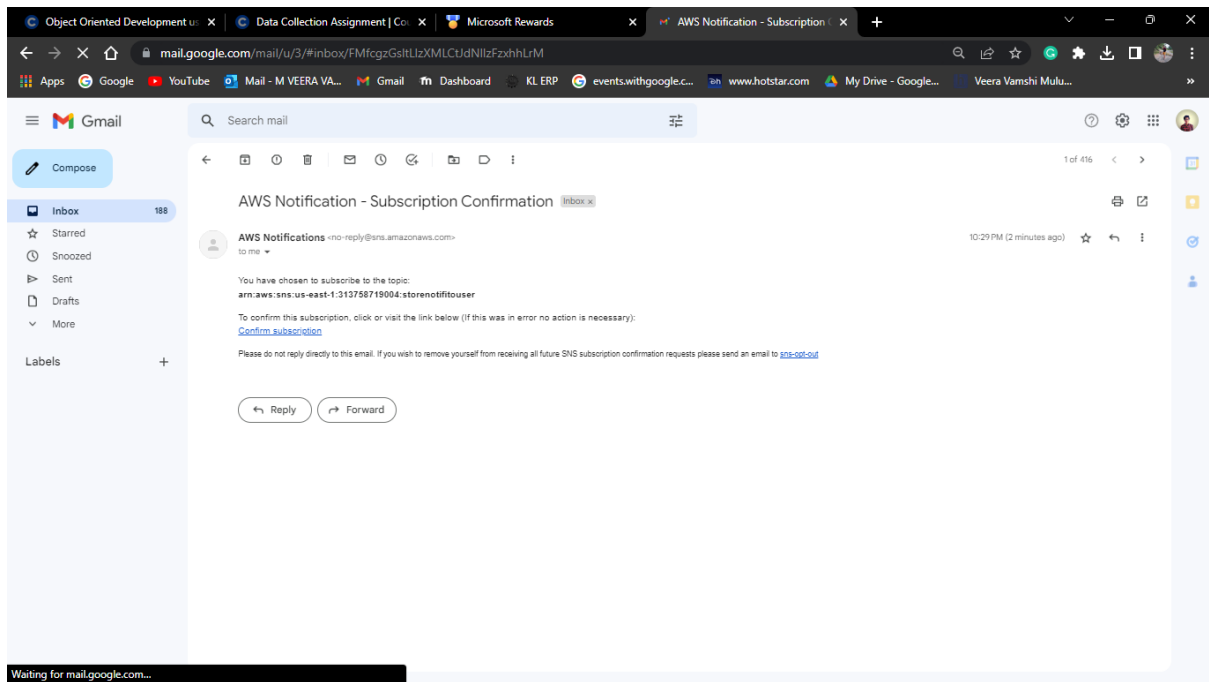
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Policy:



## Create subscription to email using sns:





SQS and SNS are integrated:

The screenshot shows the Amazon SQS console interface. The top section is titled 'Subscribe to Amazon SNS topic'. It contains a form where you specify an Amazon SNS topic. The dropdown menu shows 'arn:aws:sns:us-east-1:313758719004:storenotifitouser'. Below the form are 'Cancel' and 'Save' buttons.

The bottom section shows the 'SNS subscriptions (1) info' table. It has a search bar and a 'Subscribe to Amazon SNS topic' button. The table lists one subscription with the following details:

Subscription ARN	Topic ARN
arn:aws:sns:us-east-1:313758719004:storenotifitouser:ba02a911-bf77-4697-9c61-07af6d75d23	arn:aws:sns:us-east-1:313758719004:storenotifitouser

Create event notification in S3-> properties:

The screenshot shows the Amazon S3 console interface for creating an event notification. The form includes the following sections:

- Event name:** A text input field with the value 'notifi'. Below it, a note states: 'Event name can contain up to 255 characters.'
- Prefix - optional:** A text input field with the value 'images/'. Below it, a note states: 'Limit the notifications to objects with key starting with specified characters.'
- Suffix - optional:** A text input field with the value '.jpg'. Below it, a note states: 'Limit the notifications to objects with key ending with specified characters.'
- Event types:** A section with the instruction: 'Specify at least one event for which you want to receive notifications. For each group, you can choose an event type for all events, or you can choose one or more individual events.'
- Object creation:** A section with a checkbox 'All object create events' (checked) and a list of event types: 's3:ObjectCreated:Put', 's3:ObjectCreated:Post', 's3:ObjectCreated:Copy', and 's3:ObjectCreated:CompleteMultipartUpload'.
- Object removal:** A section with a checkbox 'All object removal events' (unchecked) and a list of event types: 's3:ObjectDeleted' and 's3:ObjectPermanentlyDeleted'.

## Integrate with SQS:

Intelligent-Tiering

☐ Intelligent-Tiering archive events  
s3:IntelligentTiering

**Destination**

**Before Amazon S3 can publish messages to a destination, you must grant the Amazon S3 principal the necessary permissions to call the relevant API to publish messages to an SNS topic, an SQS queue, or a Lambda function. [Learn more](#)**

**Destination**  
Choose a destination to publish the event. [Learn more](#)

☐ Lambda function  
Run a Lambda function script based on S3 events.

☐ SNS topic  
Fanout messages to systems for parallel processing or directly to people.

☒ SQS queue  
Send notifications to an SQS queue to be read by a server.

**Specify SQS queue**  
☒ Choose from your SQS queues  
☐ Enter SQS queue ARN

SQS queue  
queuebucke

Cancel Save changes

## Event notification us created:

Successfully created event notification "no".  
Operation successfully completed.

No data events  
No data events to display.  
[Configure in CloudTrail](#)

**Event notifications (1)**  
Send a notification when specific events occur in your bucket. [Learn more](#)

Edit Delete Create event notification

<input type="checkbox"/>	Name	Event types	Filters	Destination type	Destination
<input type="checkbox"/>	no	All object create events, All object removal events, All restore object events	-	SQS queue	queuebucke <a href="#">Edit</a>

**Amazon EventBridge**  
For additional capabilities, use Amazon EventBridge to build event-driven applications at scale using S3 event notifications. [Learn more](#) or see [EventBridge pricing](#)

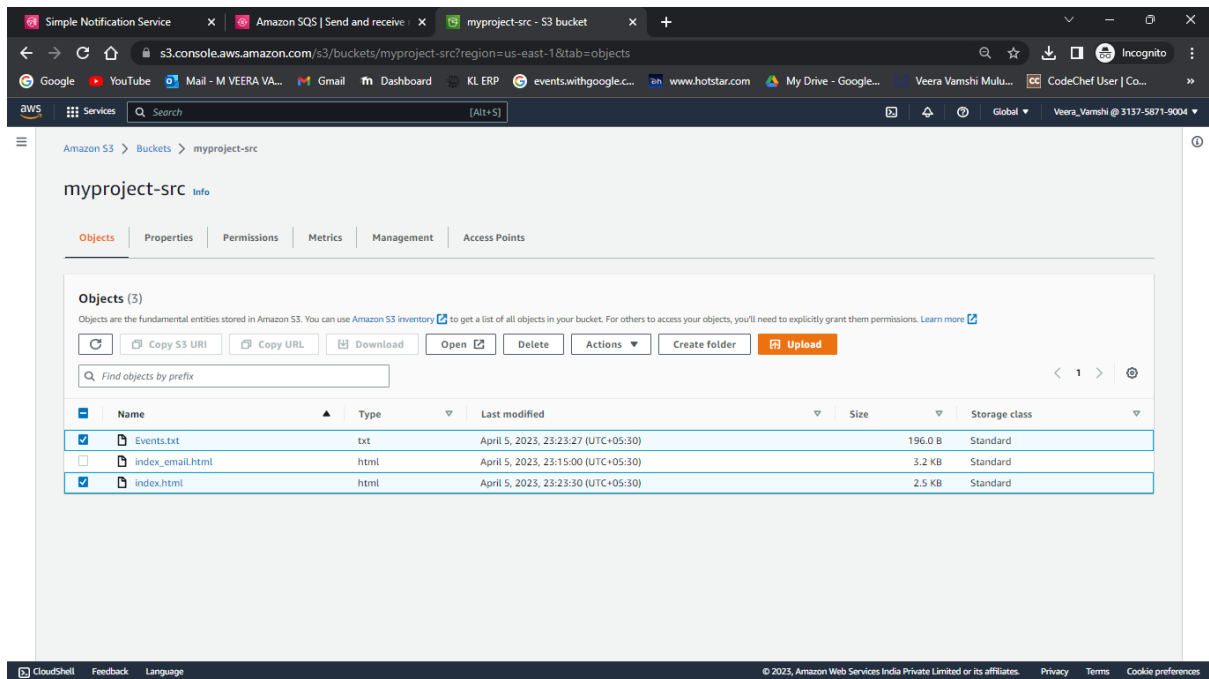
Send notifications to Amazon EventBridge for all events in this bucket  
Off [Edit](#)

**Transfer acceleration**  
Use an accelerated endpoint for faster data transfers. [Learn more](#)

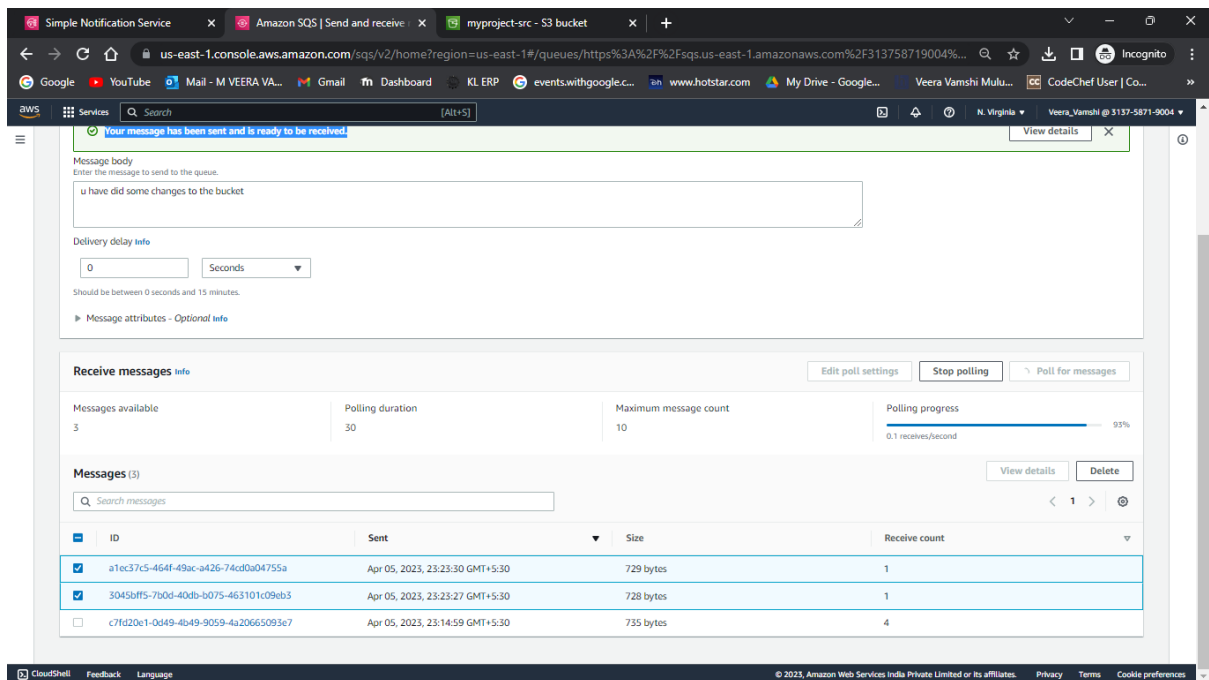
Transfer acceleration  
Disabled [Edit](#)

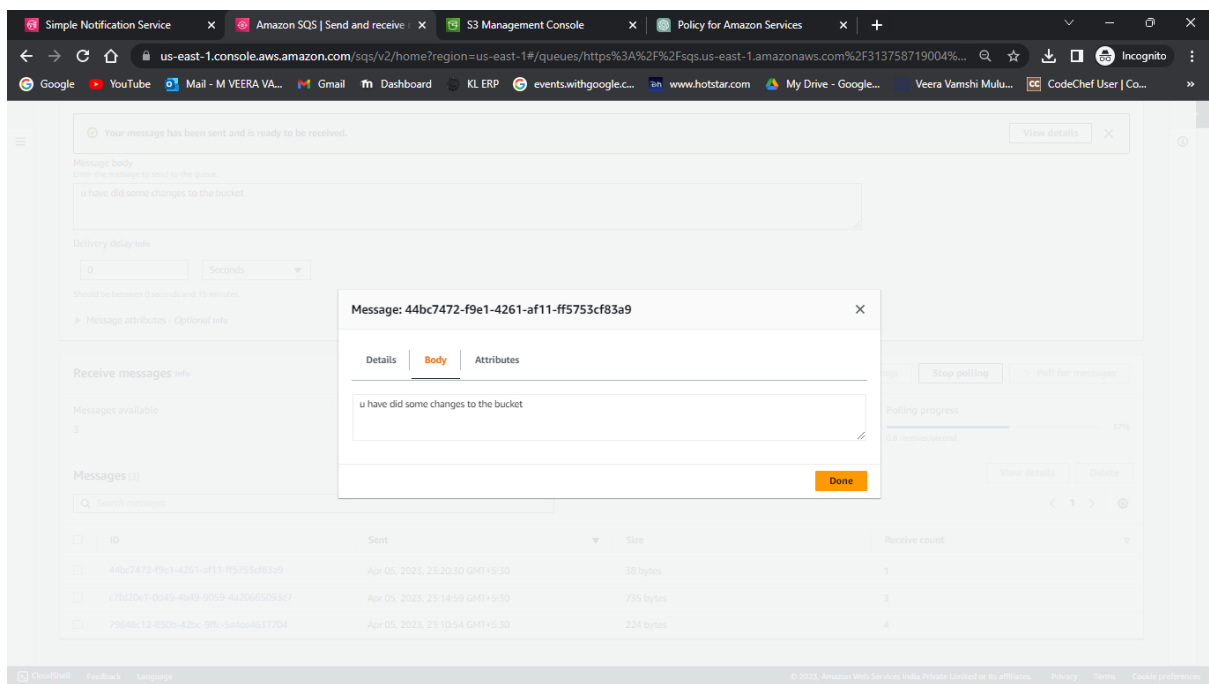
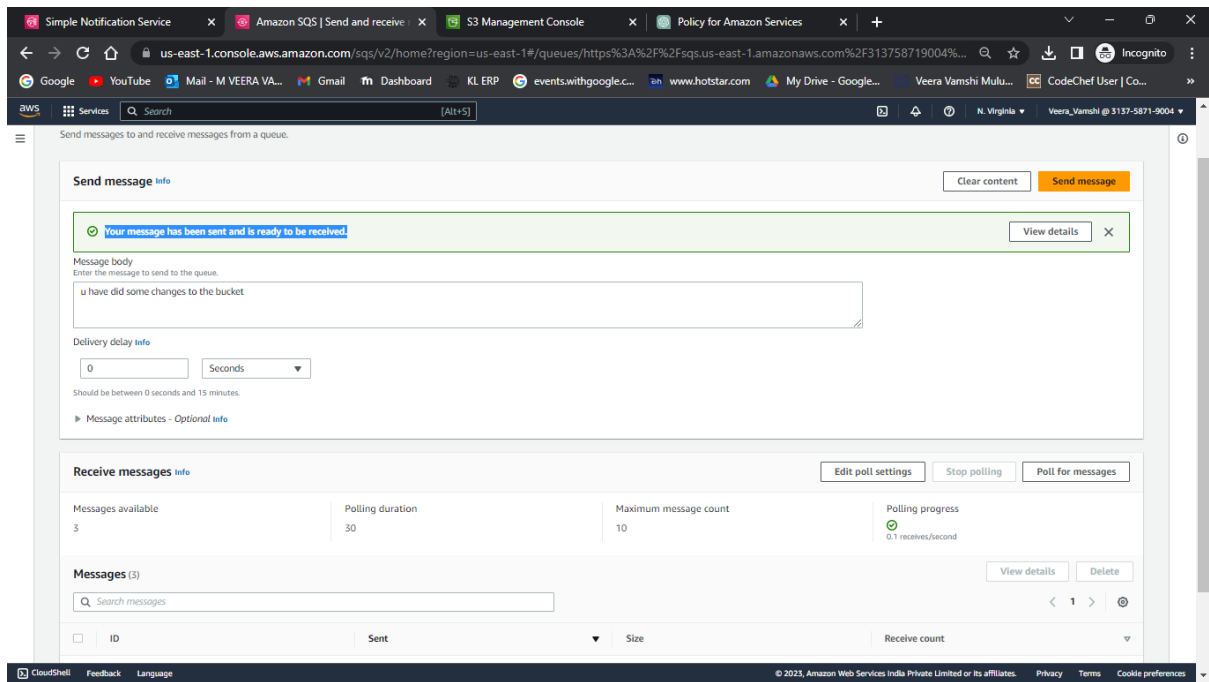
**Object Lock** [Edit](#)

Files are uploaded:



After uploading the files, the messages will be in queue we need to pull those requests:





In order send the email we need to integrate SNS instead of SQS