Advance Devops Lab 12

Aim: To create a Lambda function which will log "An Image has been added" once you add an object to a specific bucket in S3

Theory:

Objective: To create a serverless Lambda function that triggers whenever an object is added to a specific S3 bucket and logs a message indicating that an image has been added.

Prerequisites:

- An AWS account with necessary permissions to create Lambda functions and access S3 buckets.
- An S3 bucket created and configured.

Steps:

1. Create an S3 Bucket:

- Log in to your AWS Management Console.
- Navigate to the S3 service.
- Click on "Create bucket".
- o Provide a unique bucket name and select your desired region.
- o Configure any necessary permissions or tags.
- o Click "Create bucket".

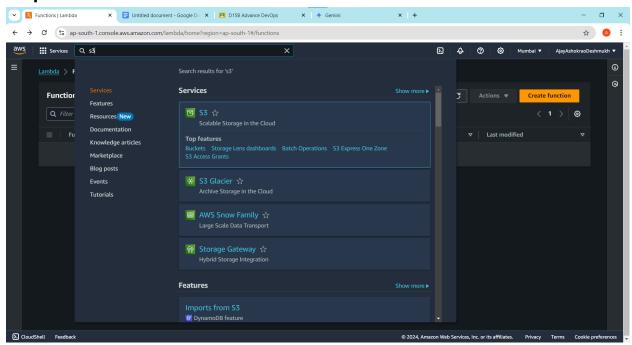
2. Create a Lambda Function:

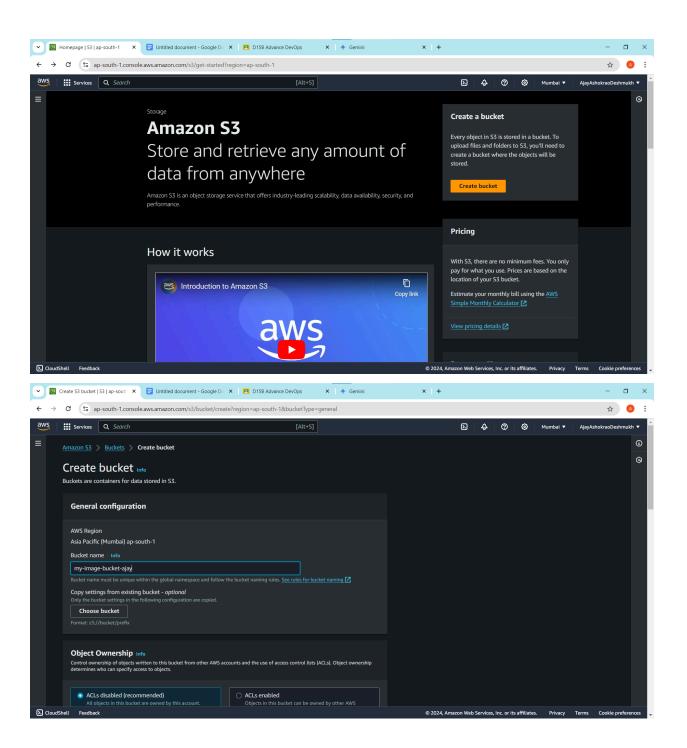
- Navigate to the Lambda service.
- Click "Create function".
- Choose "Author from scratch".
- Provide a function name and select your desired runtime (e.g., Python 3.9).
- Click "Create function".

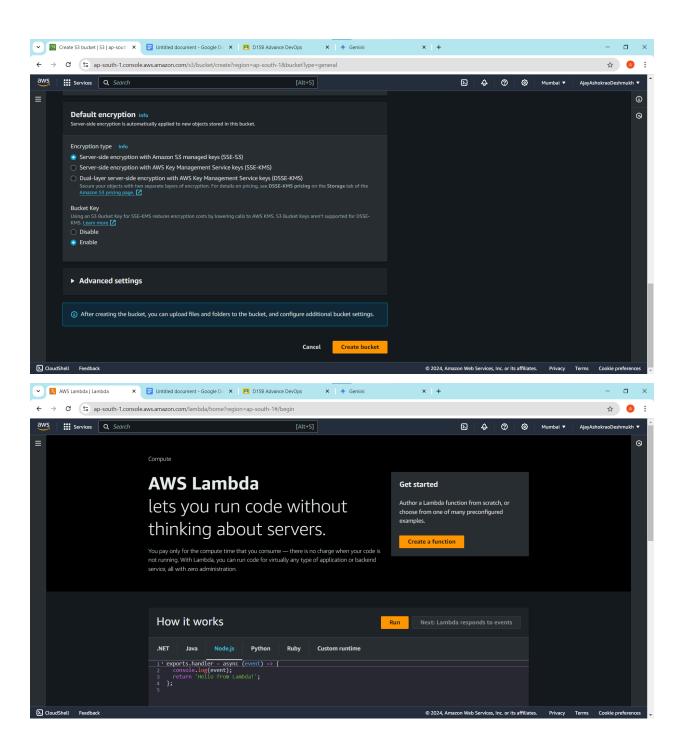
3. Configure Trigger:

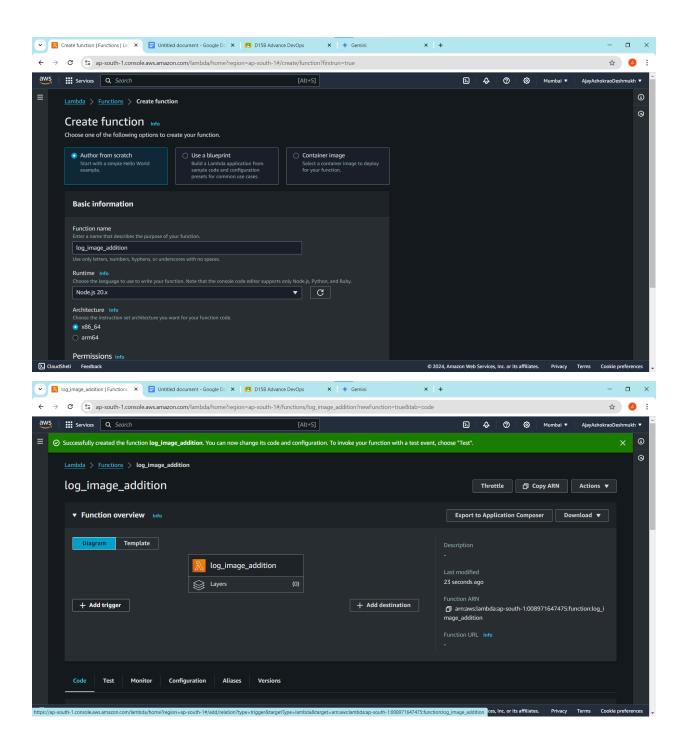
- o In the "Triggers" tab, click "Add trigger".
- o Select "S3" as the event source.
- Choose the S3 bucket you created earlier.
- Select the desired event type (e.g., "Object Created").
- o Click "Add".

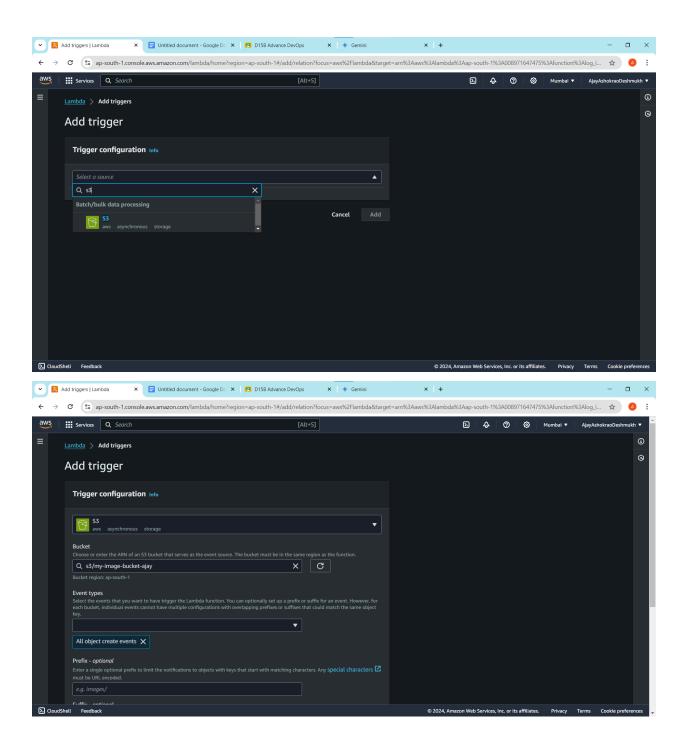
Steps:

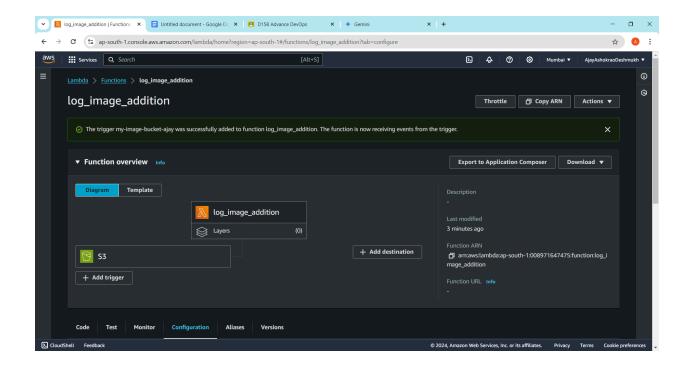












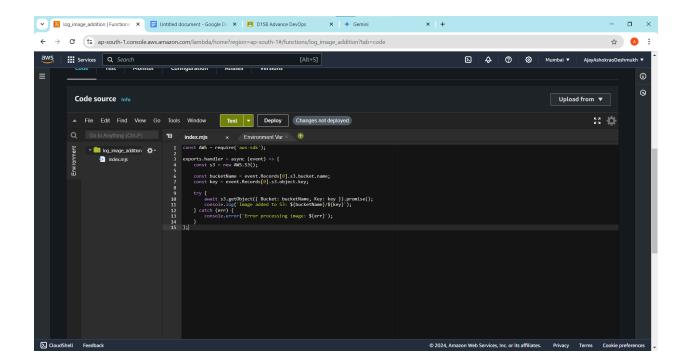
Write Lambda Function Code:

```
const AWS = require('aws-sdk');

exports.handler = async (event) => {
  const s3 = new AWS.S3();

  const bucketName = event.Records[0].s3.bucket.name;
  const key = event.Records[0].s3.object.key;

  try {
    await s3.getObject({ Bucket: bucketName, Key: key }).promise();
    console.log(`Image added to S3: ${bucketName}/${key}`);
  } catch (err) {
    console.error(`Error processing image: ${err}`);
  }
};
```



Test the Function:

