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".

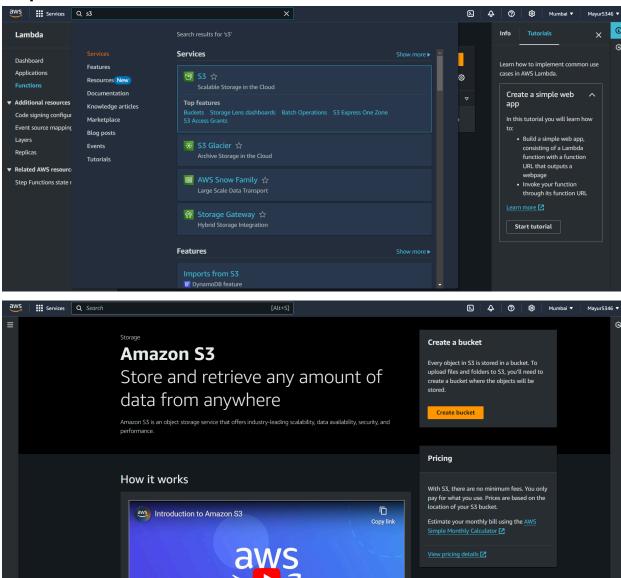
2. Create a Lambda Function:

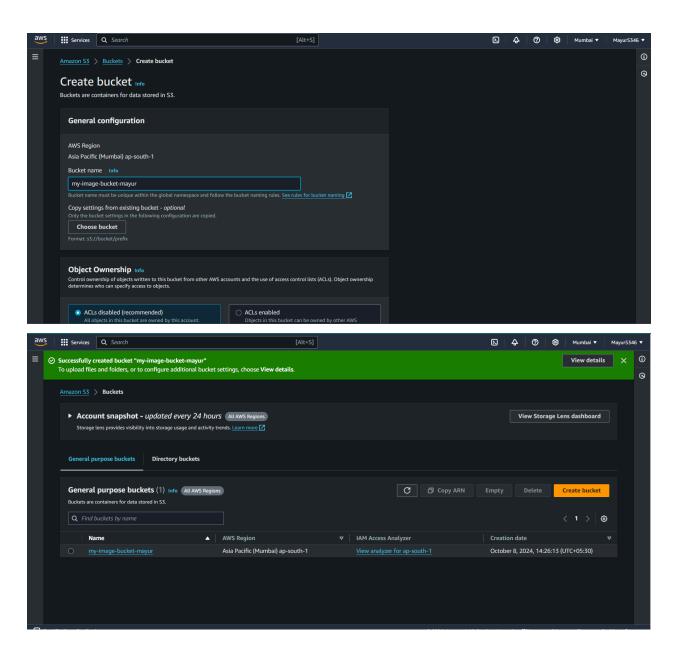
- Navigate to the Lambda service.
- Click "Create function".
- Choose "Author from scratch".
- Provide a function name and select your desired runtime (e.g., Python 3.9).
- Click "Create function".

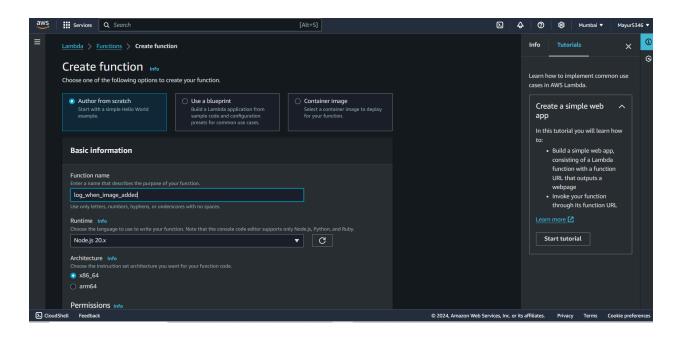
3. Configure Trigger:

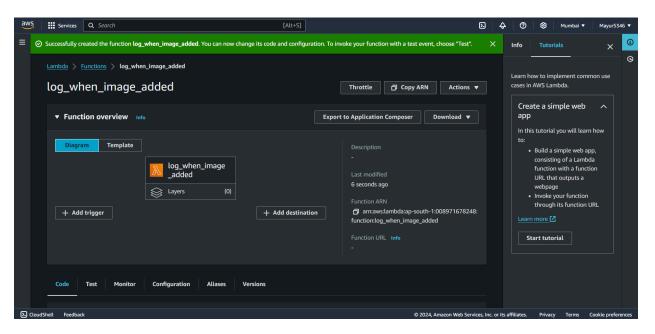
- o In the "Triggers" tab, click "Add trigger".
- Select "S3" as the event source.
- Choose the S3 bucket you created earlier.
- Select the desired event type (e.g., "Object Created").
- o Click "Add".

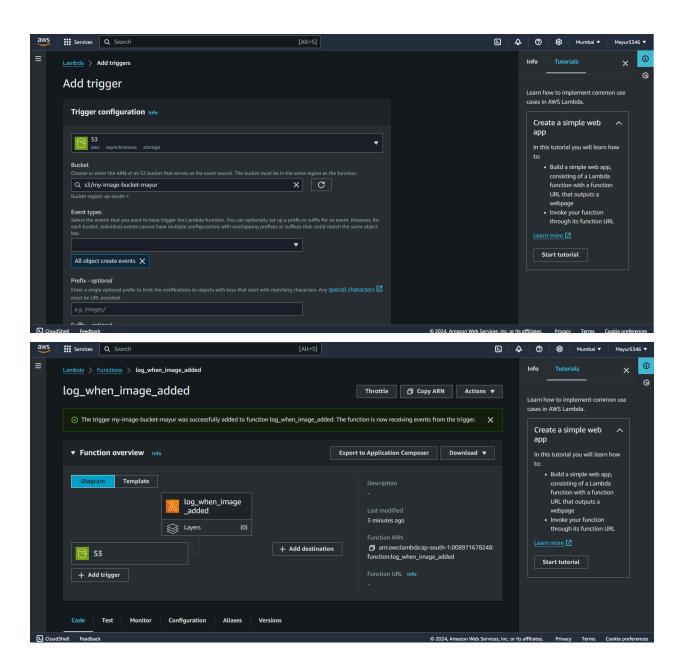
Steps:









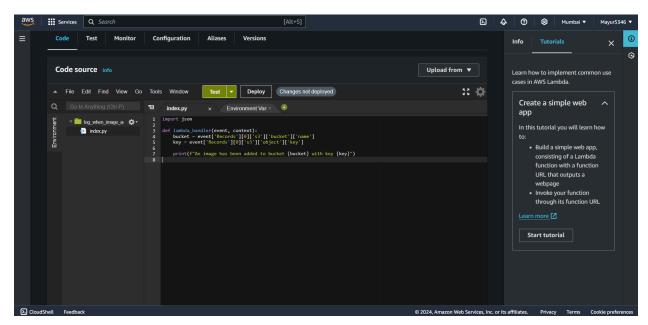


Write Lambda Function Code:

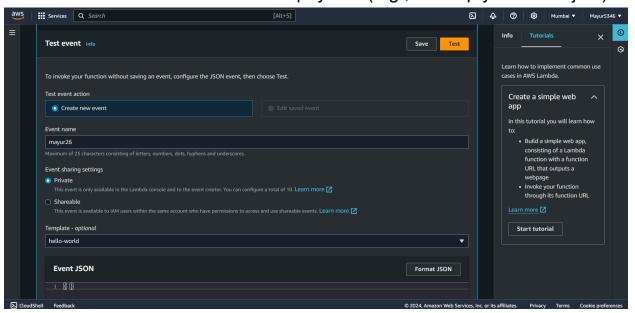
import json

```
def lambda_handler(event, context):
bucket = event['Records'][0]['s3']['bucket']['name']
key = event['Records'][0]['s3']['object']['key']
```

print(f"An image has been added to bucket {bucket} with key {key}")

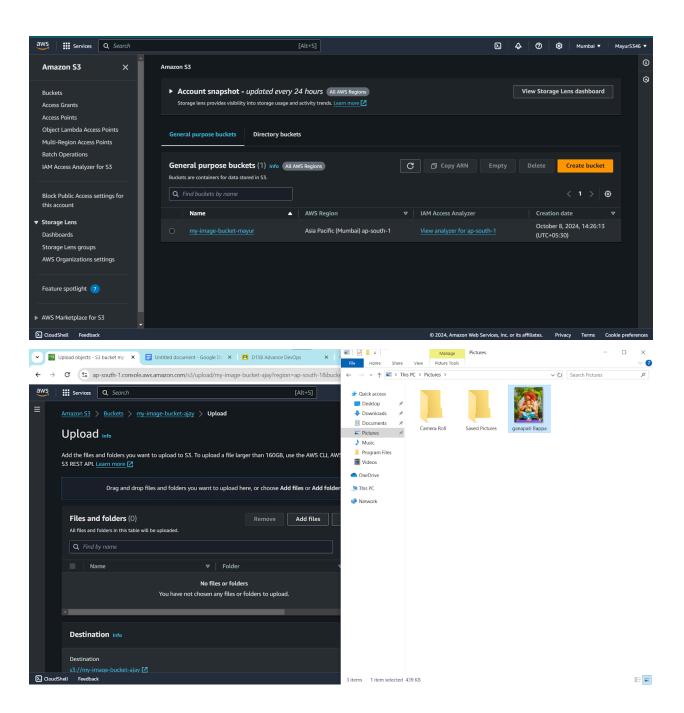


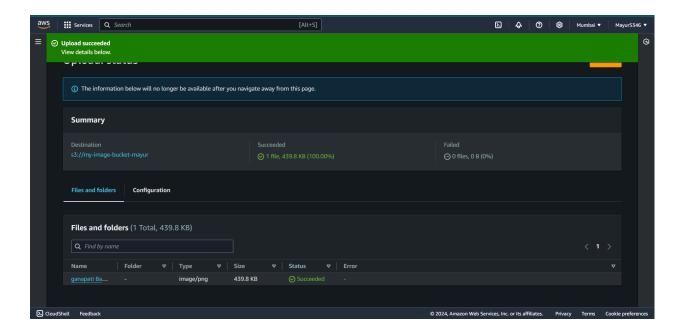
Add test event: Provide a test event payload (e.g., an empty JSON object).



Deploy it.

Test the Function:





Go to cloudwatch: > log group > lambda function

