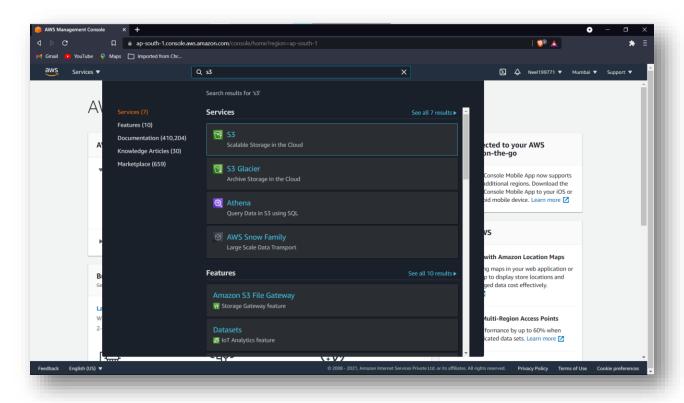
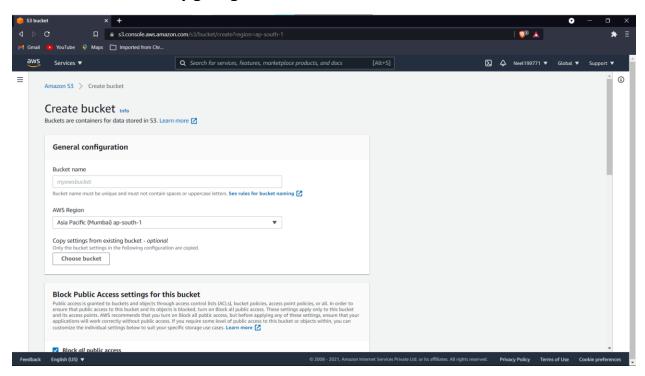
Aim- To implement lamda Function.

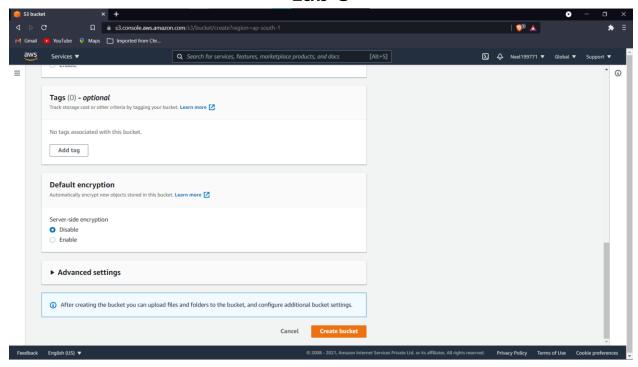
Login to Aws account-

Search S3, click on the option below shown-

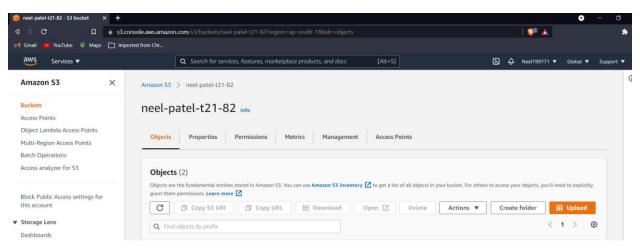


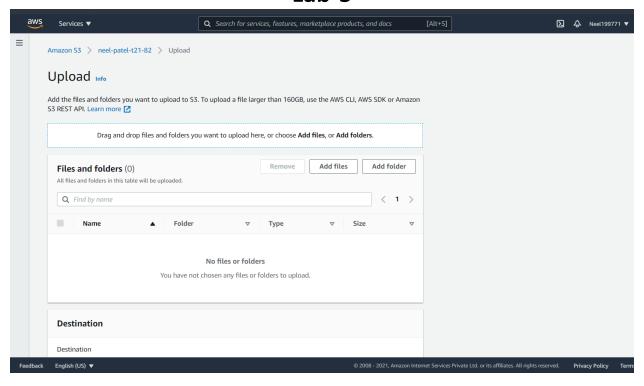
### Create an S3 bucket by giving it a name



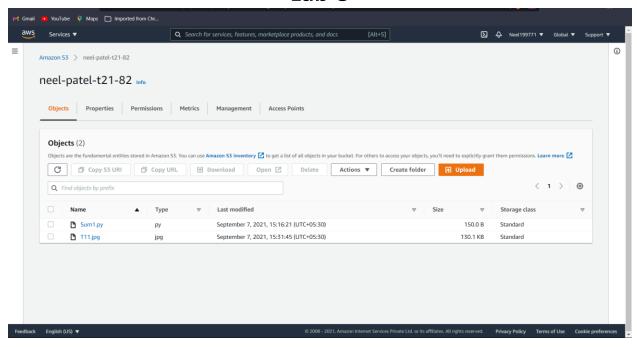


## Click on upload button after the s3 bucket is created in the object section

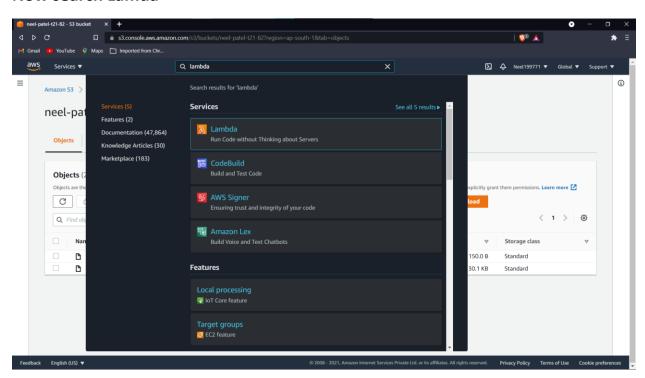




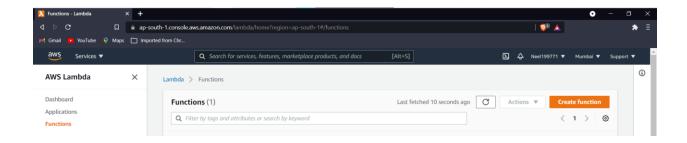
Add any .py or .java extenstion file and click on upload



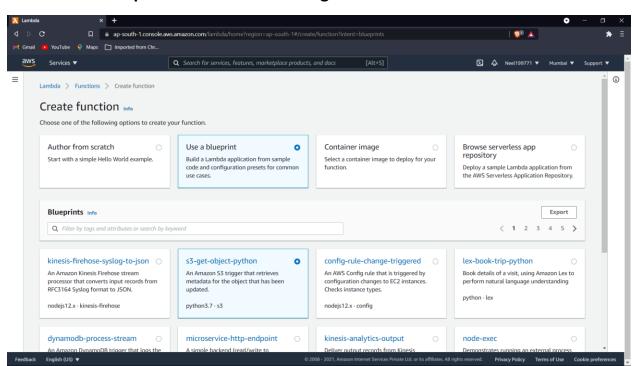
#### Now search Lamda

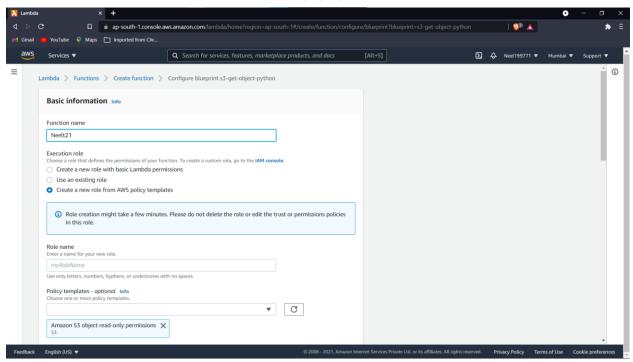


#### Click create function

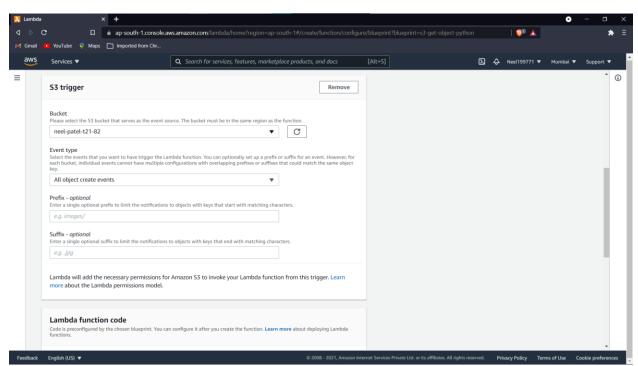


### Click on below options and click on configure

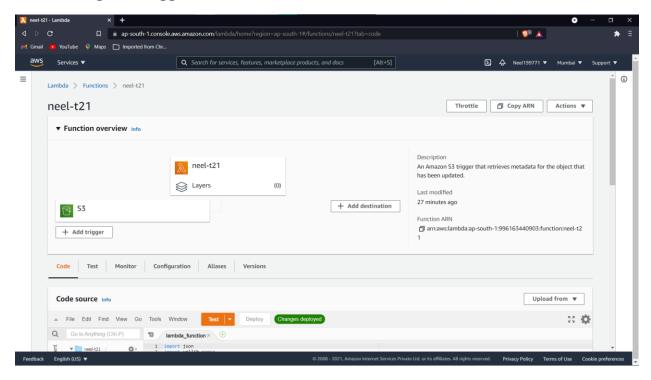




## Select the bucket created and create trigger ,click on create function-



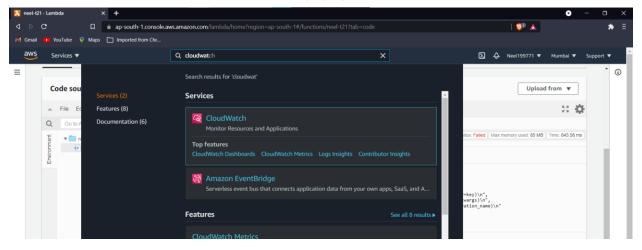
#### Check the given trigger is created



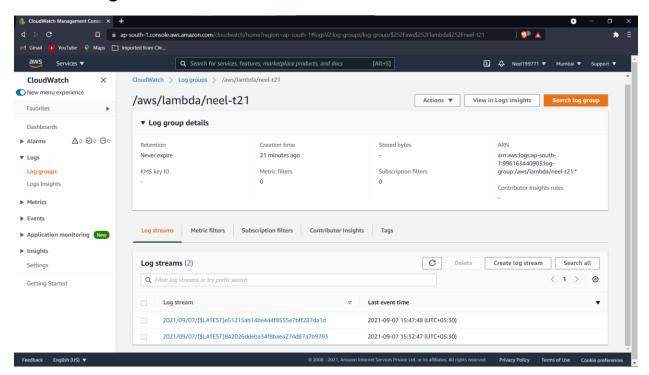
## Click on the orange test button-



Now,

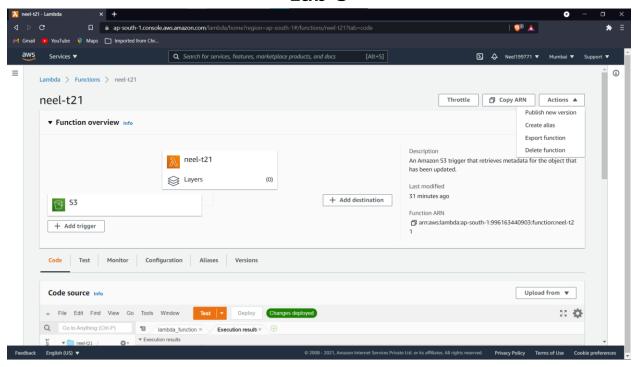


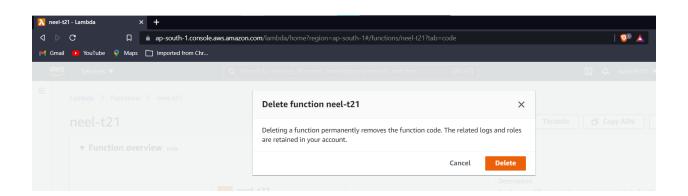
### Check the logs of the test-



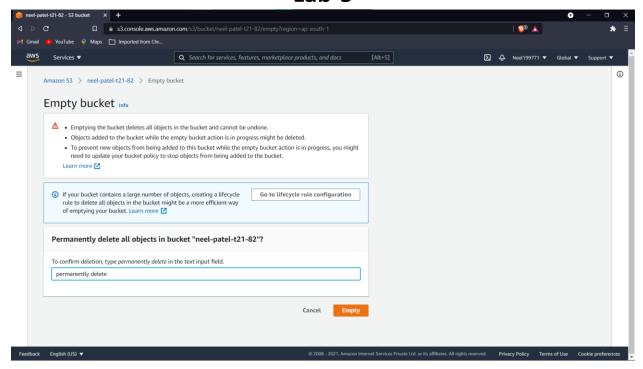
Now terminate-

Click on delete function.

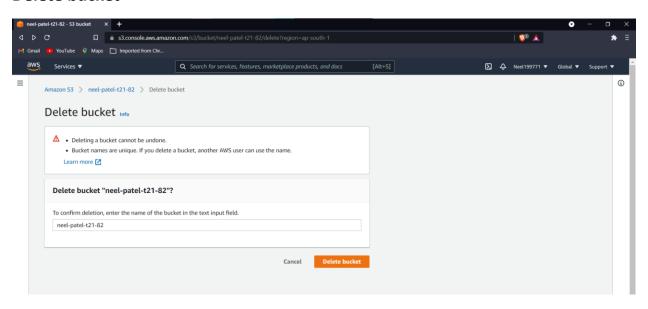




### **Empty bucket**



#### **Delete bucket-**



Step 1: Create a Bucket

• In AWS S3, create a new bucket where you will upload objects.

#### Step 2: Create a New Policy

- Go to the IAM (Identity and Access Management) dashboard in AWS.
- Create a new policy.
- When creating the policy, select the JSON tab and paste the provided JSON code. This policy grants necessary permissions for your Lambda function to interact with S3 and CloudWatch Logs.

#### Step 3: Create a Policy Name

• Name your newly created policy.

#### Step 4: Create a New Role

- Go to the "Roles" page in AWS IAM.
- Select "Create a new role."
- Under "Policies for Role," select the policy you created earlier.
- Name the role.

#### Step 5: Upload an Image File

• Upload an image file to the S3 bucket you created in step 1.

#### Step 6: Create a Lambda Function

- Go to the Lambda dashboard in AWS.
- Create a new function and name it "s3-trigger tutorial."
- Choose the option to "Use an existing role" and select the Lambda execution role you created earlier.
- In the code panel, paste the provided Python code. This code is the Lambda function that will check the content type of the object uploaded to the S3 bucket.

### **Step 7: Test the Lambda Function**

- Create a custom test event named "MyTestEvent."
- For the template, choose "S3 Put."
- In the event JSON, replace values as mentioned in the instructions (region, bucket name, and object key).
- Save the test event and press "Test." The Lambda function will execute, and you'll see the results in the Execution tab.

#### **Step 8: Check Execution Tab**

- In the Execution tab, you can check the "CONTENT TYPE" to see the content type of the uploaded object.
- The function logs should also contain a message like "An object has been added to the S3 Bucket."

```
{
 "Version": "2012-10-17",
 "Statement": [
   "Effect": "Allow",
   "Action": [
    "logs:PutLogEvents",
    "logs:CreateLogGroup",
    "logs:CreateLogStream"
   ],
   "Resource": "arn:aws:logs:*:*:*"
  },
   "Effect": "Allow",
   "Action": [
    "s3:GetObject"
   ],
   "Resource": "arn:aws:s3:::*/*"
  }
 ]
}
import json
import urllib.parse
```

import boto3

```
print('Loading function')
s3 = boto3.client('s3')
def lambda_handler(event, context):
  # Get the object from the event and show its content type
  bucket = event['Records'][0]['s3']['bucket']['name']
  key = urllib.parse.unquote_plus(event['Records'][0]['s3']['object']['key'], encoding='utf-8')
  try:
    response = s3.get_object(Bucket=bucket, Key=key)
    print("An object: " + response['ContentType'] + " has been added to the S3 Bucket")
    print("CONTENT TYPE: " + response['ContentType'])
    return response['ContentType']
  except Exception as e:
    print(e)
    print('Error getting object {} from bucket {}. Make sure they exist and your bucket is in the same region as
this function.'.format(key, bucket))
    raise e
```