

NAME: MULLA AFRAH AKKAS ALI

ROLL NO.: 612038

BRANCH: T.E. – I.T.

SEMESTER: ODD SEMESTER 5

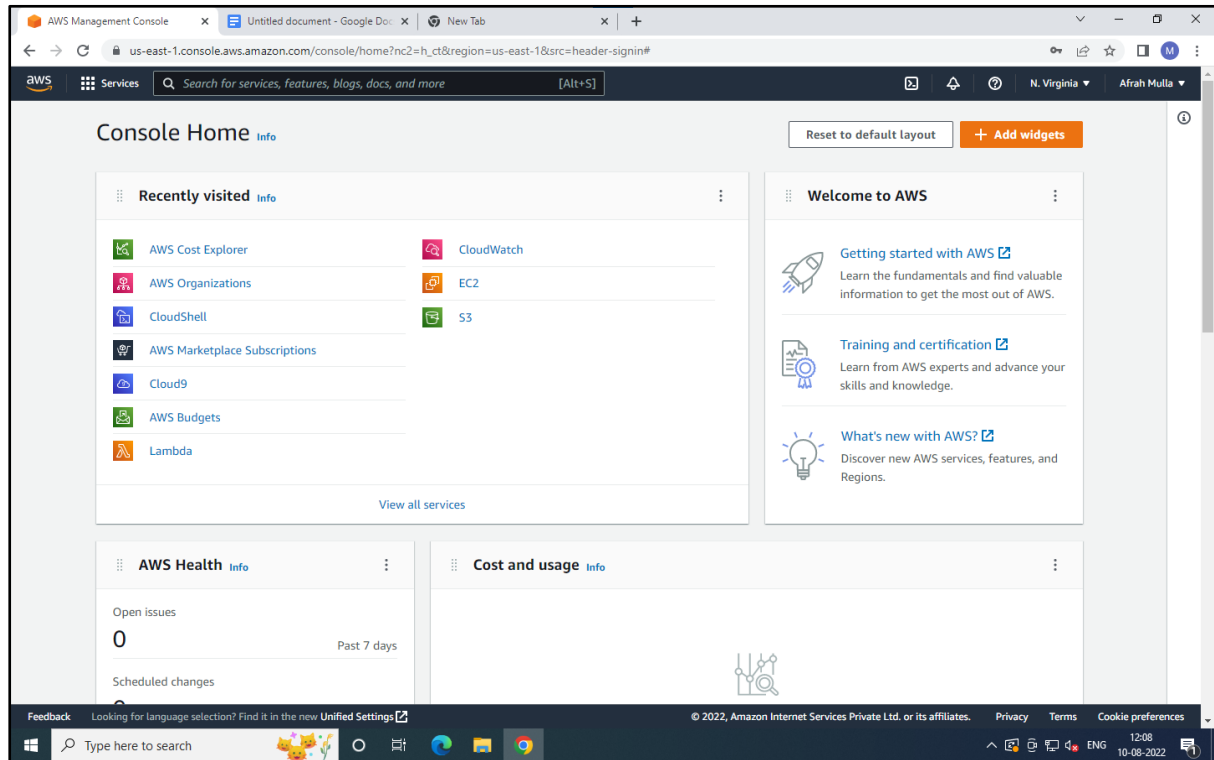
COURSE: Advance DevOPs (ITL504)

DATE: 10-08-2022

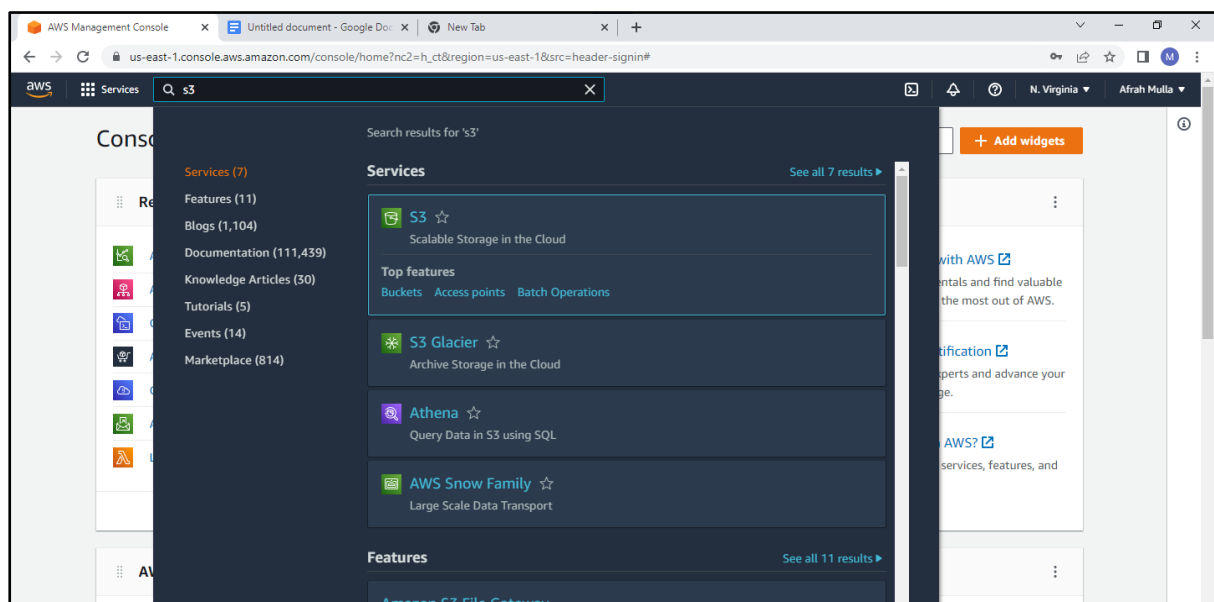
EXPERIMENT 6

To create a Lambda function which will log “An Image has been added” once you add an object to a specific bucket in S3. Use AWS Lambda blueprint.

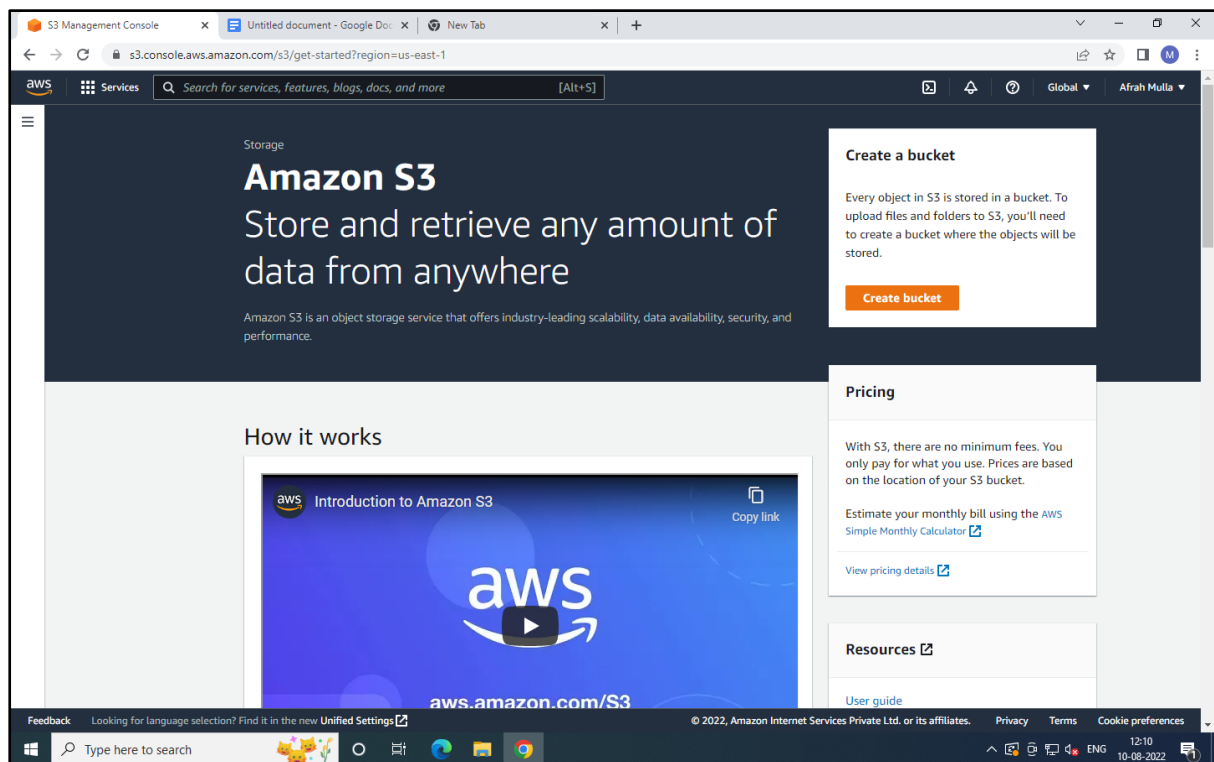
Step 1: AWS Management Console Dashboard



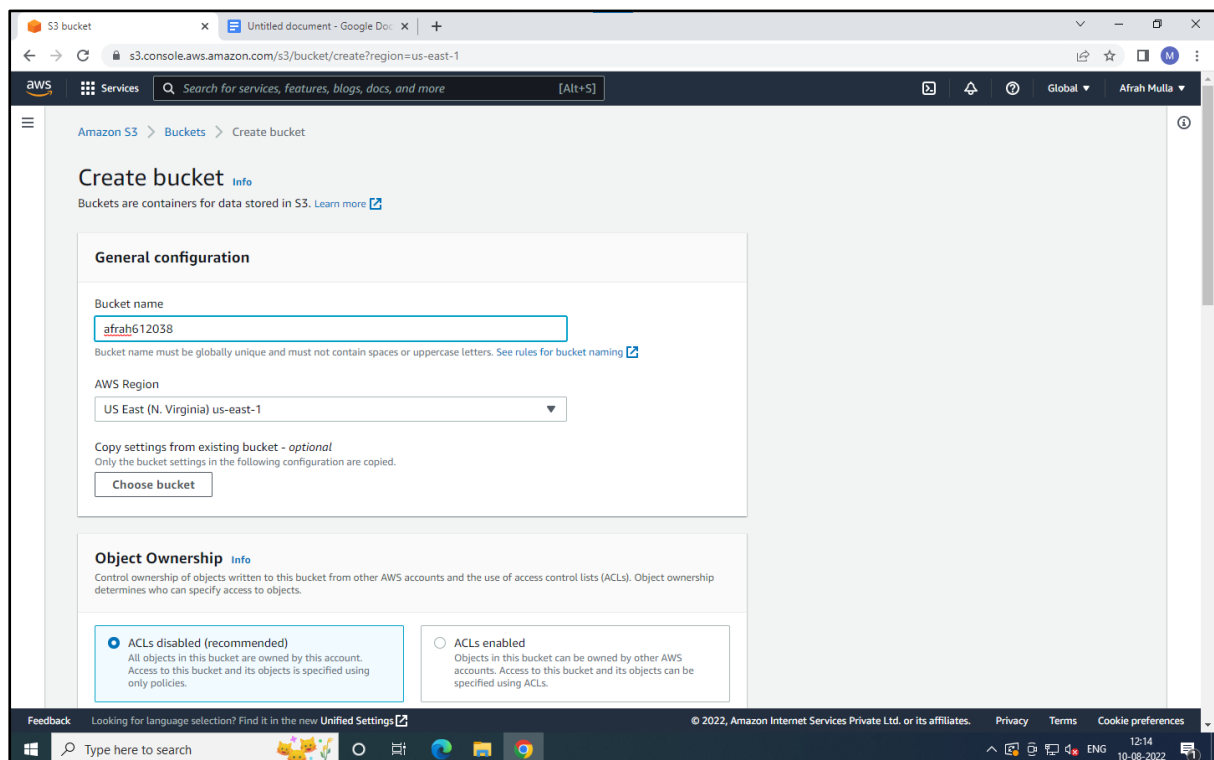
Step 2: Click on Services -> Storage -> S3

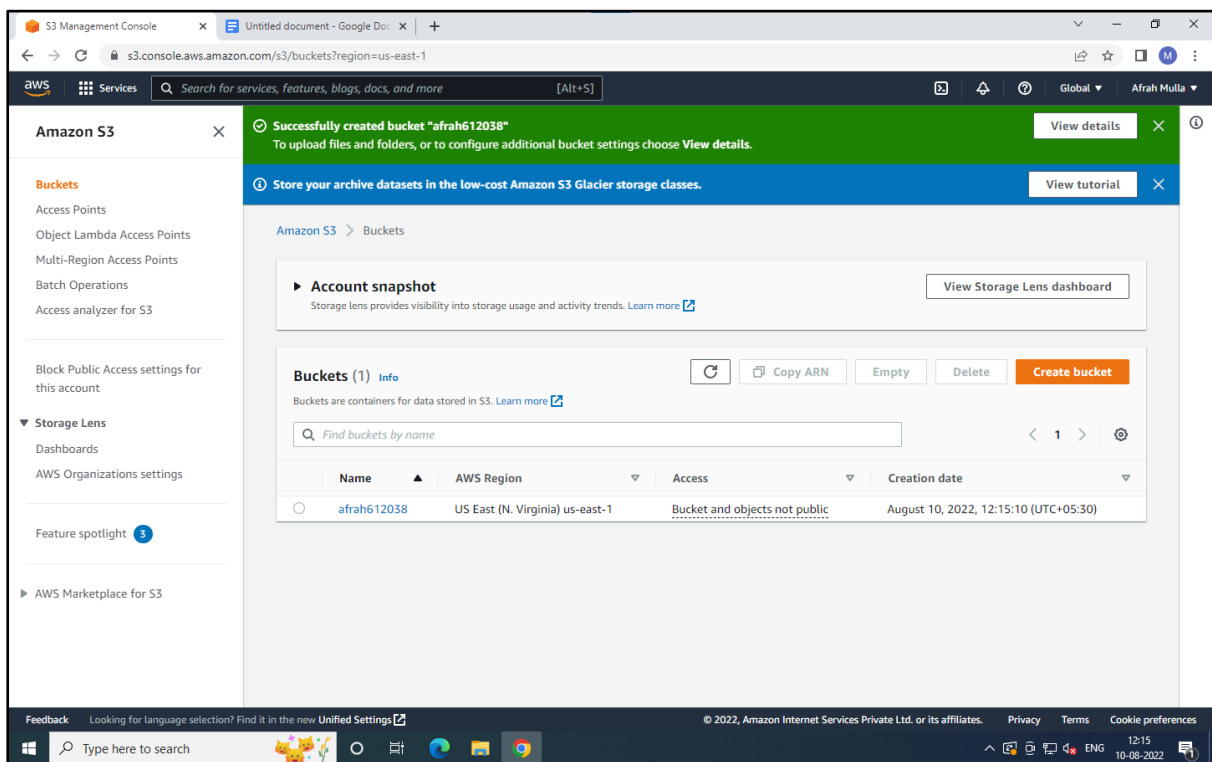
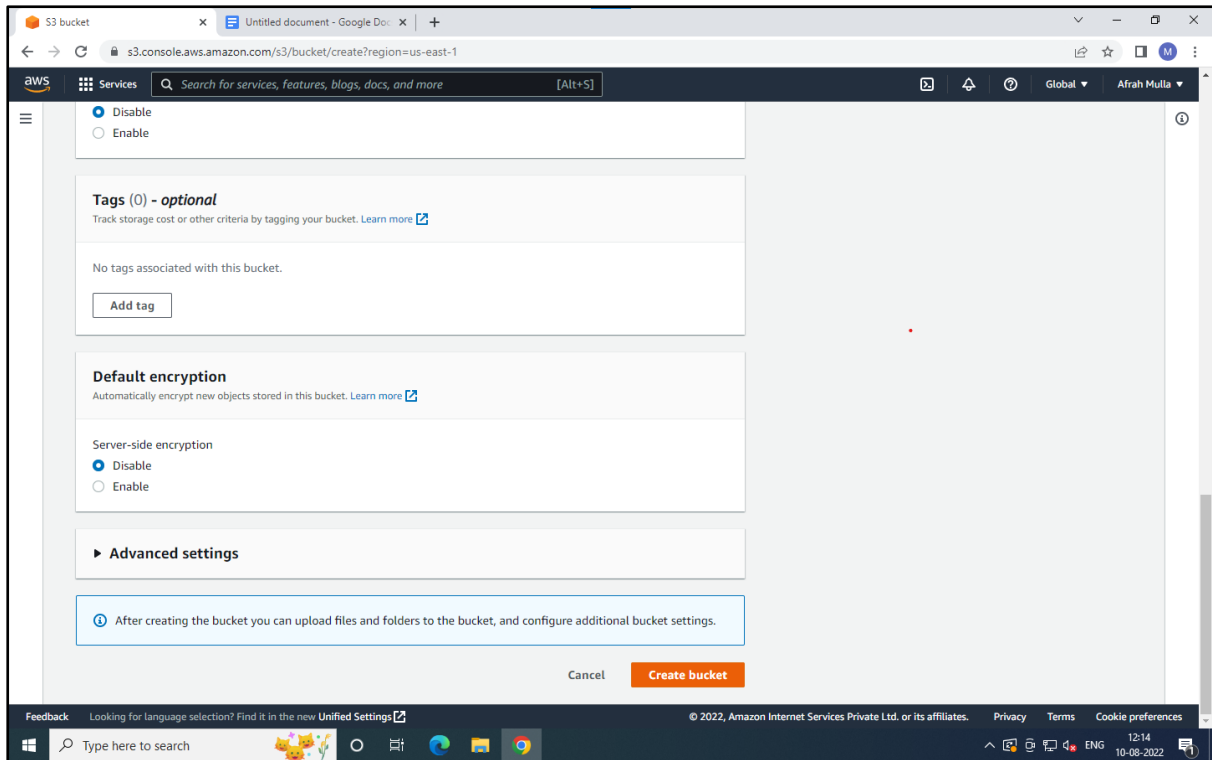


Step 3: Click on 'Create bucket'

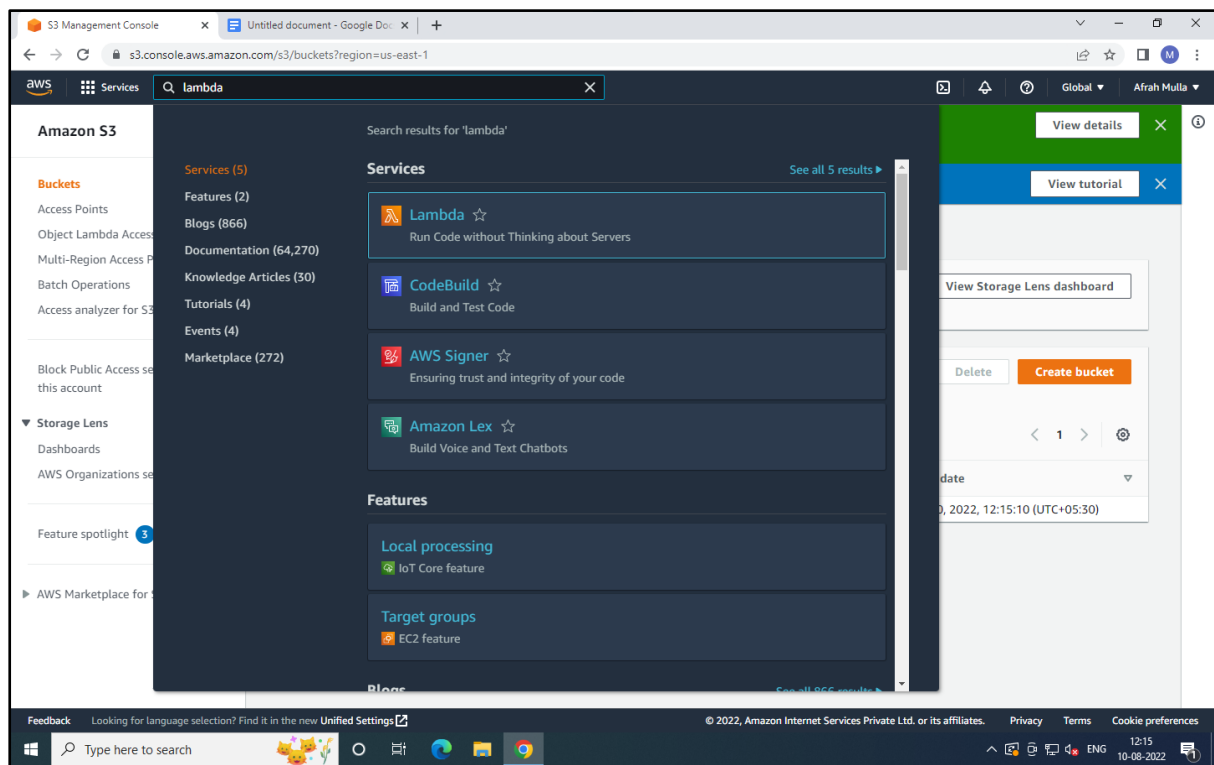


Step 4: Give your bucket a name -> Click on Create bucket

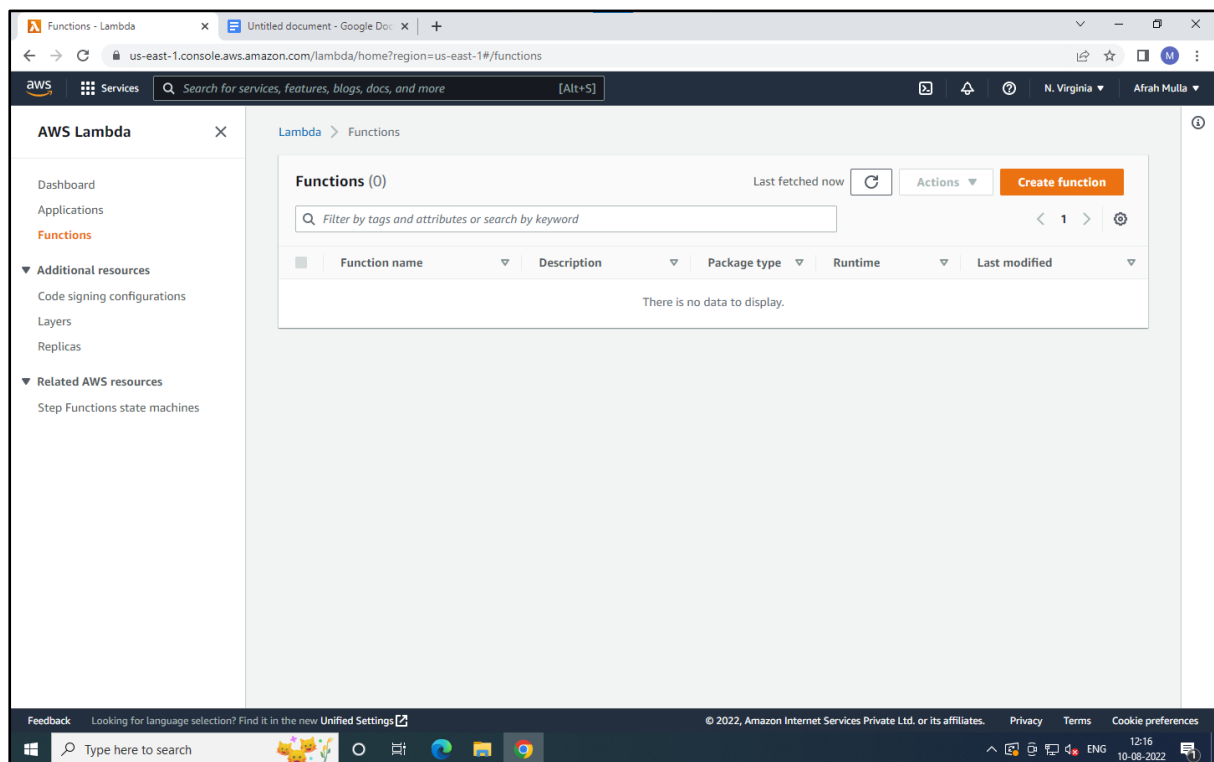




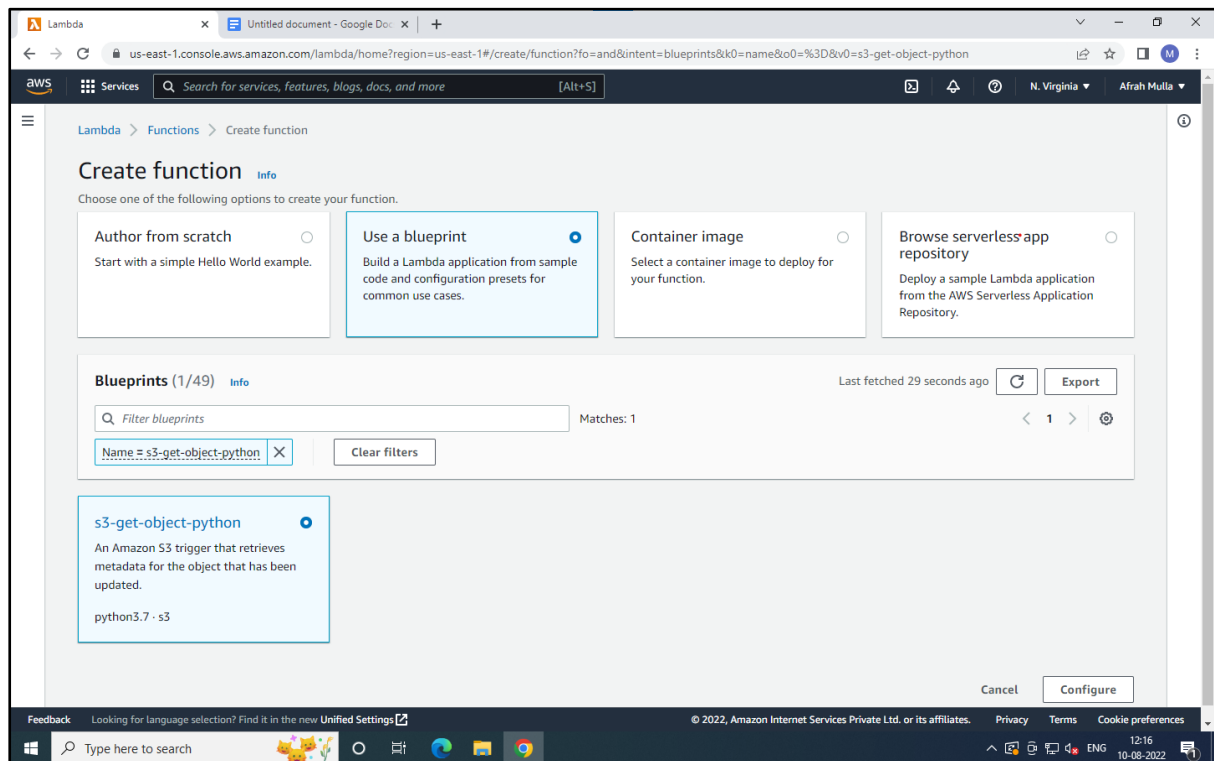
Step 5: Search for Lambda and select it



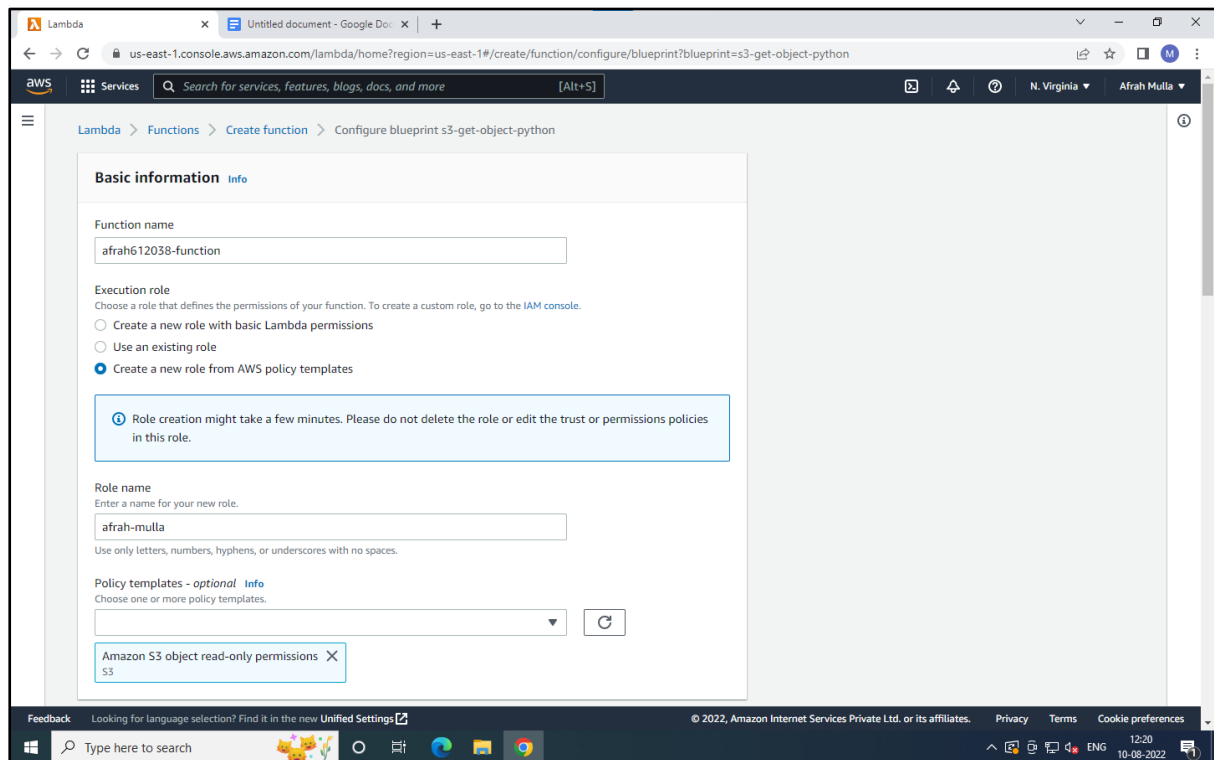
Step 6: Click on Create Function



Step 7: Choose “Use a blueprint” -> Search s3 in “Blueprints” -> Select “s3-get-object-python”



Step 8: Name the Function & Role -> Select your S3 bucket as trigger -> Click on Create Function



Lambda

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/create/function/configure/blueprint=aws3-get-object-python

Services

Search for services, features, blogs, docs, and more

[Alt+S]

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S3 trigger

Remove

S3

aws storage

Bucket

Please select the S3 bucket that serves as the event source. The bucket must be in the same region as the function.

s3/afrah612038

Event type

Select the events that you want to have trigger the Lambda function. You can optionally set up a prefix or suffix for an event. However, for each bucket, individual events cannot have multiple configurations with overlapping prefixes or suffixes that could match the same object key.

All object create events

Prefix - optional

Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters.

e.g. images/

Suffix - optional

Enter a single optional suffix to limit the notifications to objects with keys that end with matching characters.

e.g. .jpg

Recursive invocation

If your function writes objects to an S3 bucket, ensure that you are using different S3 buckets for input and output. Writing to the same bucket increases the risk of creating a recursive invocation, which can result in increased Lambda usage and increased costs. [Learn more](#)

☒ I acknowledge that using the same S3 bucket for both input and output is not recommended and that this configuration can cause recursive invocations, increased Lambda usage, and increased costs.

Feedback

Looking for language selection? Find it in the new [Unified Settings](#)

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12:20

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Lambda

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/create/function/configure/blueprint=aws3-get-object-python

Services

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Code is preconfigured by the chosen blueprint. You can configure it after you create the function. [Learn more](#) about deploying Lambda functions.

Runtime

Python 3.7

Architecture

x86_64

```
1 import json
2 import urllib.parse
3 import boto3
4
5 print('Loading function')
6
7 s3 = boto3.client('s3')
8
9
10 def lambda_handler(event, context):
11     #print("Received event: " + json.dumps(event, indent=2))
12
13     # Get the object from the event and show its content type
14     bucket = event['Records'][0]['s3']['bucket']['name']
15     key = urllib.parse.unquote_plus(event['Records'][0]['s3']['object']['key'], encoding='utf-8')
16     try:
17         response = s3.get_object(Bucket=bucket, Key=key)
18         print("CONTENT TYPE: " + response['ContentType'])
19         return response['ContentType']
20     except Exception as e:
21         print(e)
22         print("Error getting object {} from bucket {}. Make sure they exist and your bucket name is correct")
23         raise e
24
```

Cancel

Create function

Feedback

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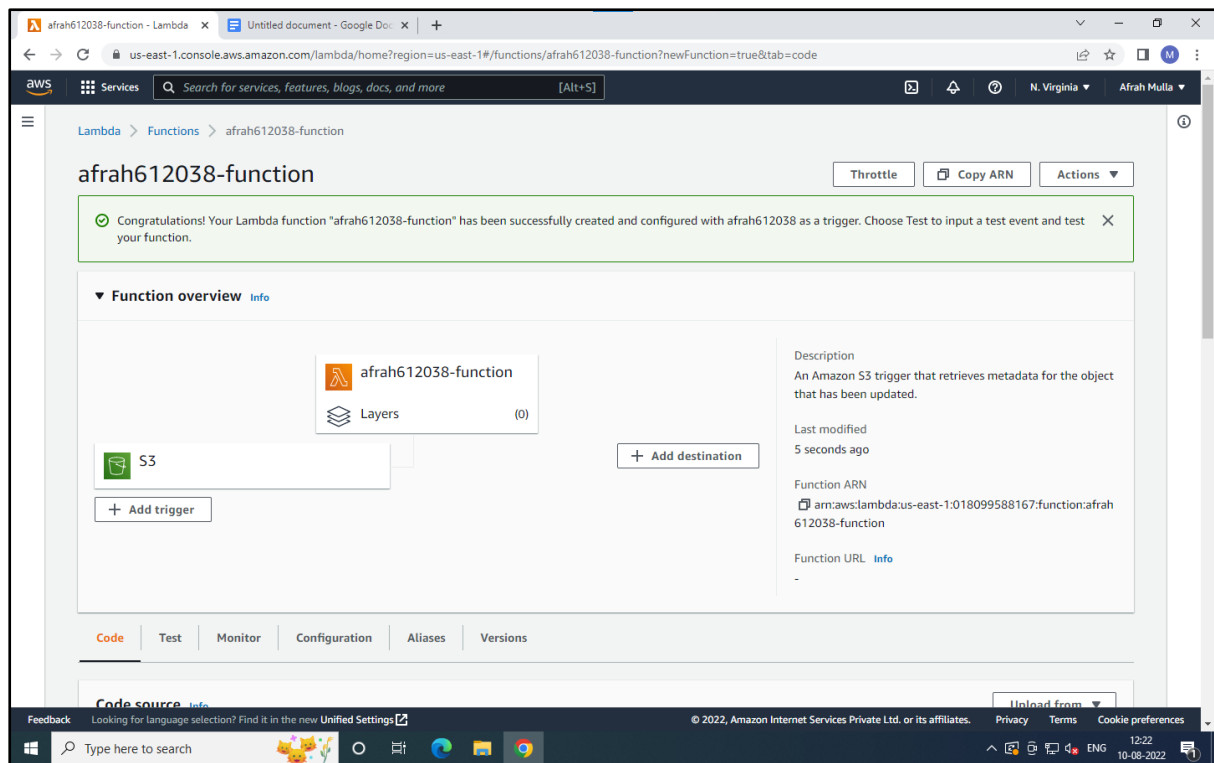
Terms

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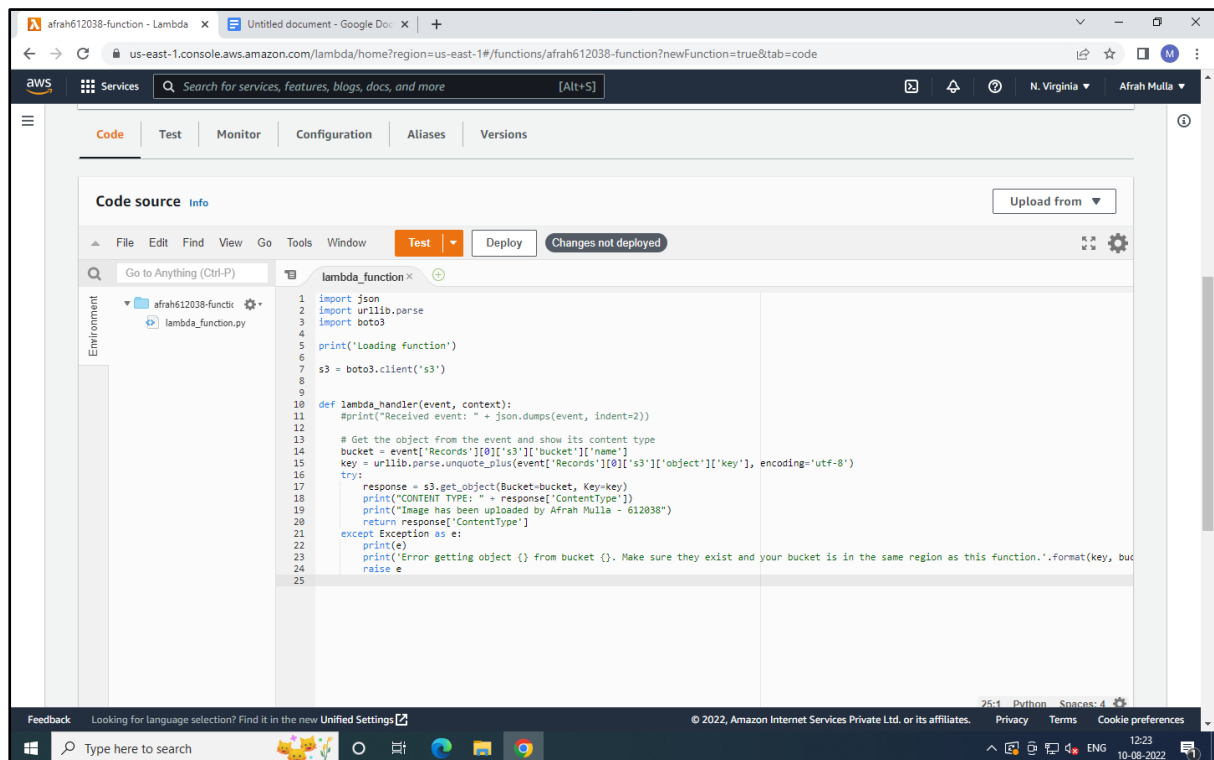
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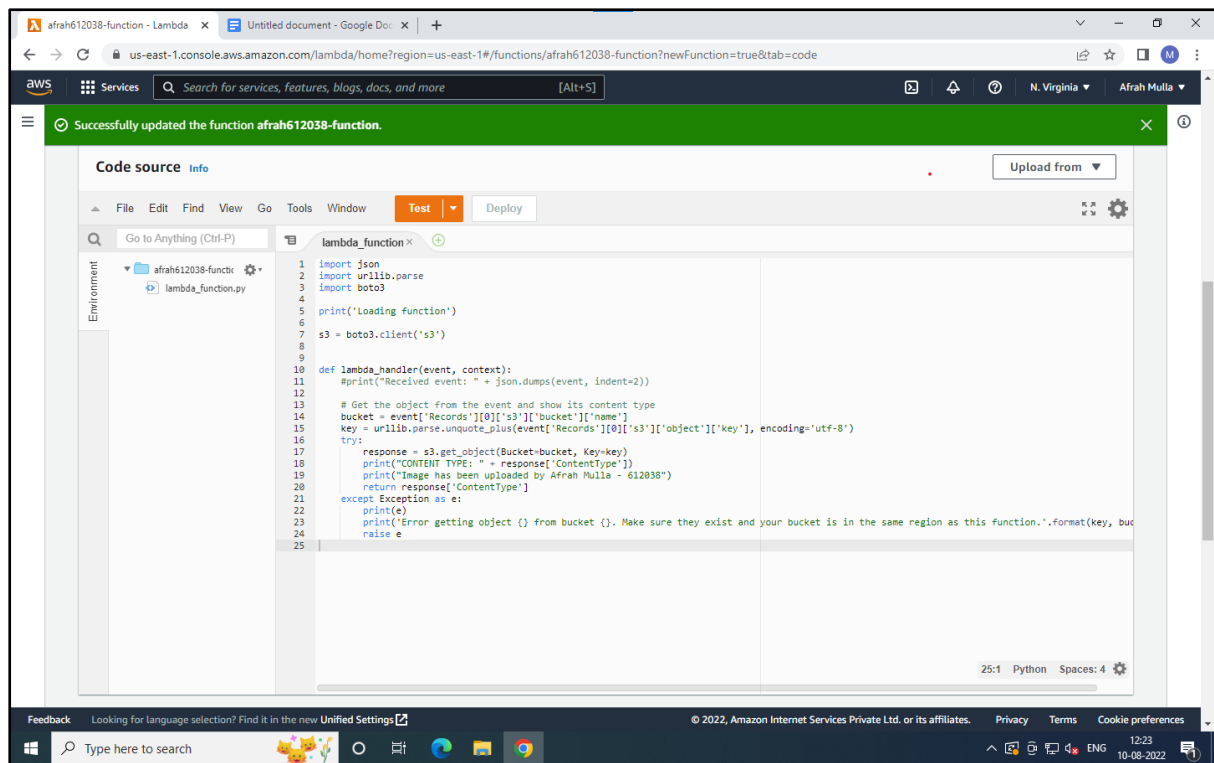
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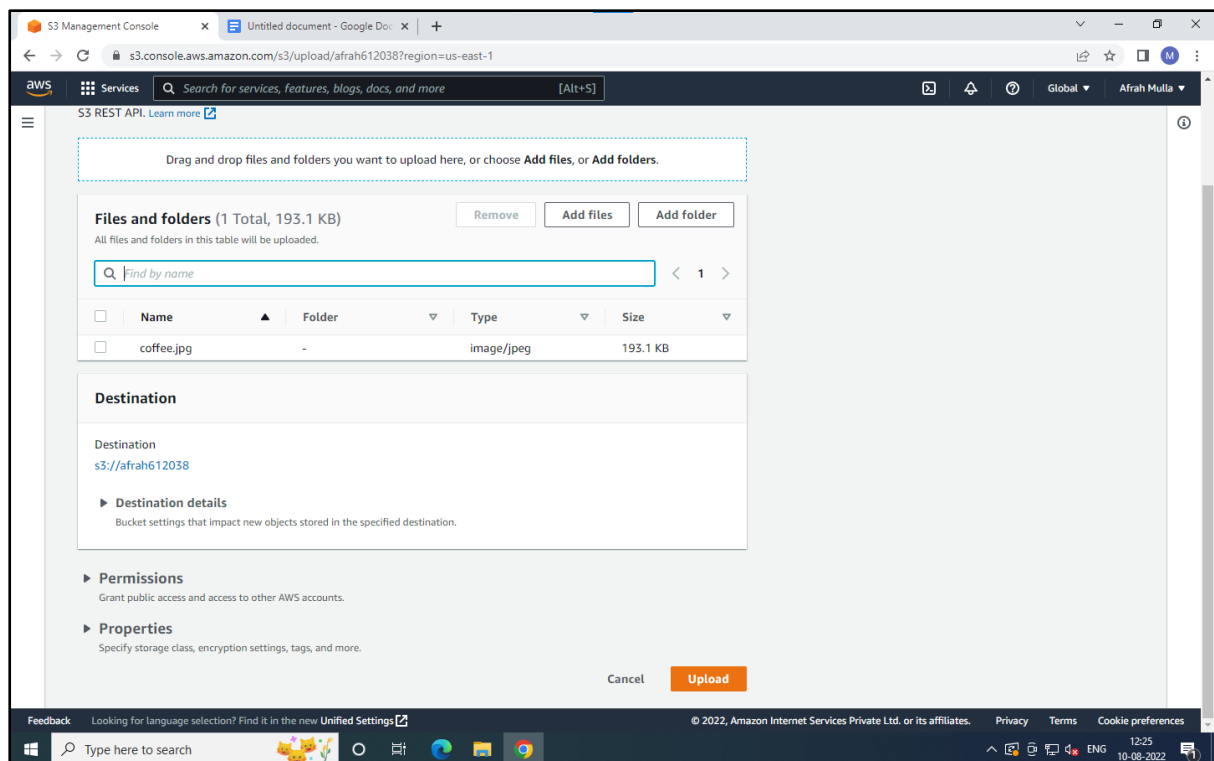


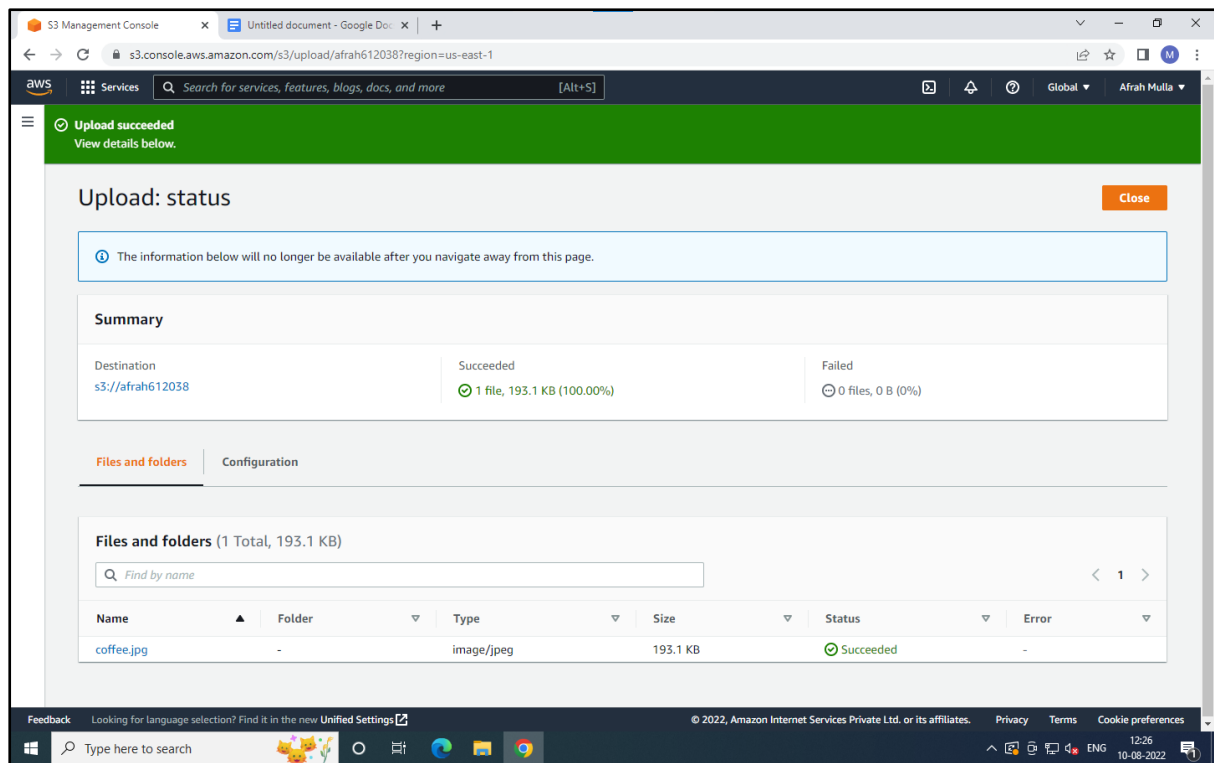
Step 9: Click on your function -> Go to code -> Add a print statement in code -> Save the code and deploy it



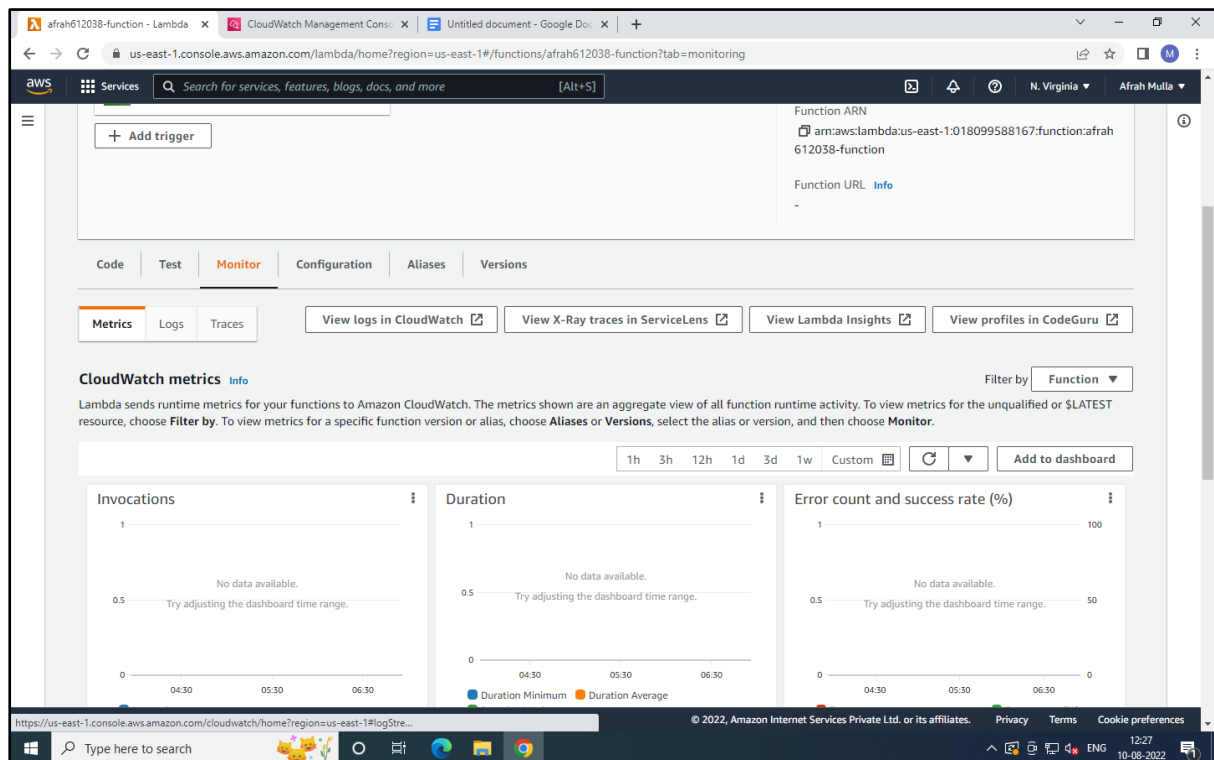


Step 10: Go to your bucket -> Upload an image as object in your bucket -> Click on upload

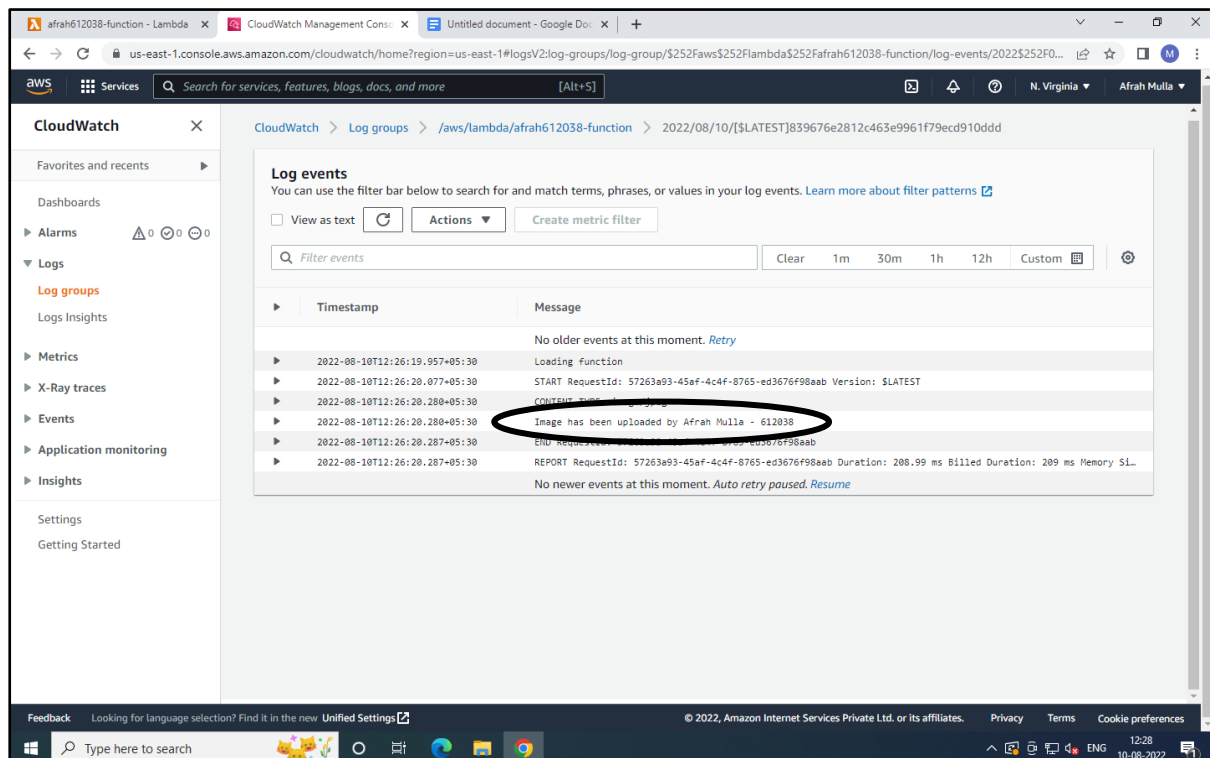
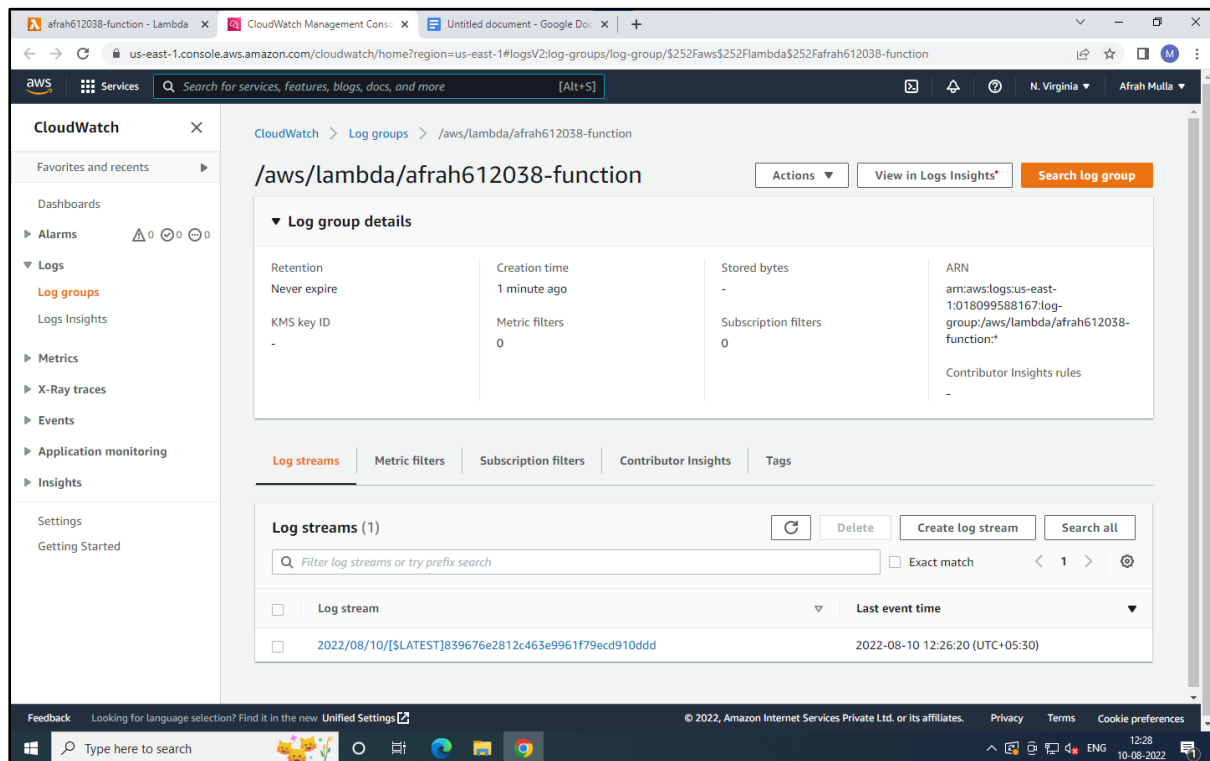




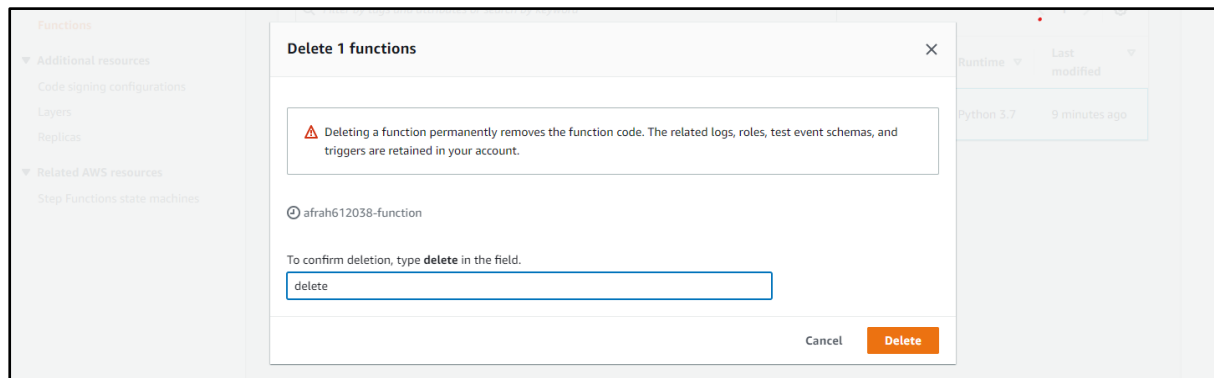
Step 11: Click on your lambda function -> Monitor -> View logs in CloudWatch



Step 12: Click the blue link in Log stream -> Check the message “Image has been uploaded by Afrah Mulla - 612038”



Step 13: Delete your lambda function



Step 14: Empty your bucket & delete the bucket

