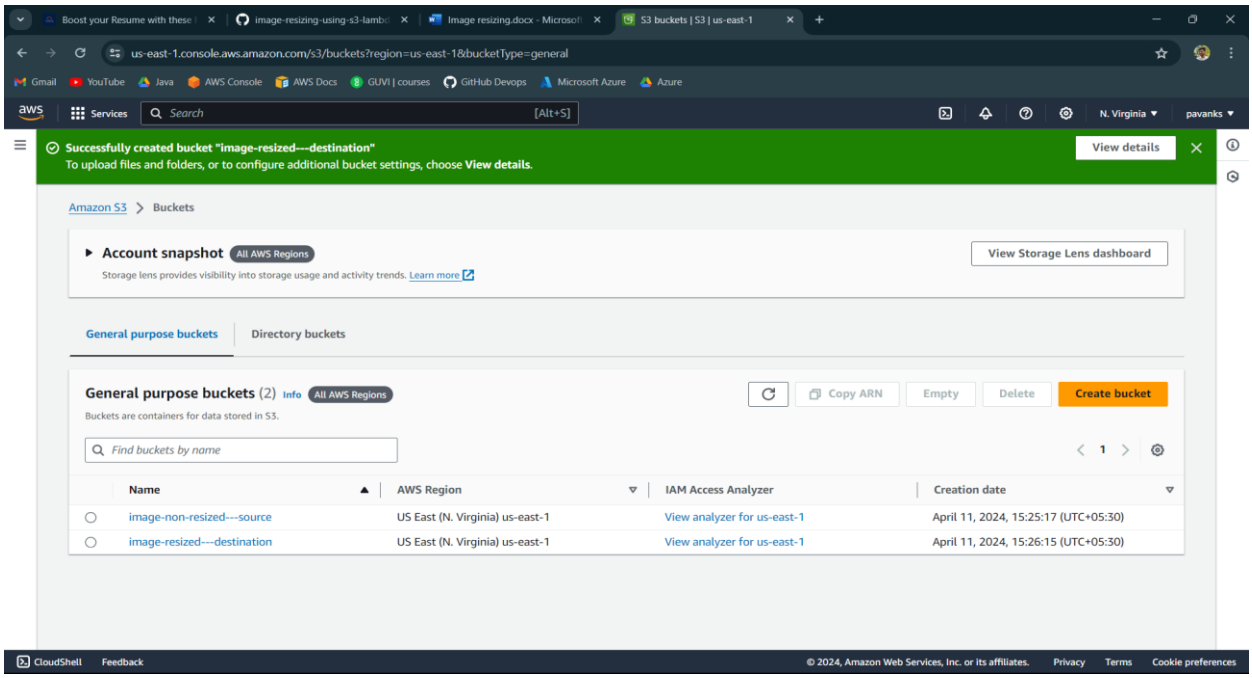
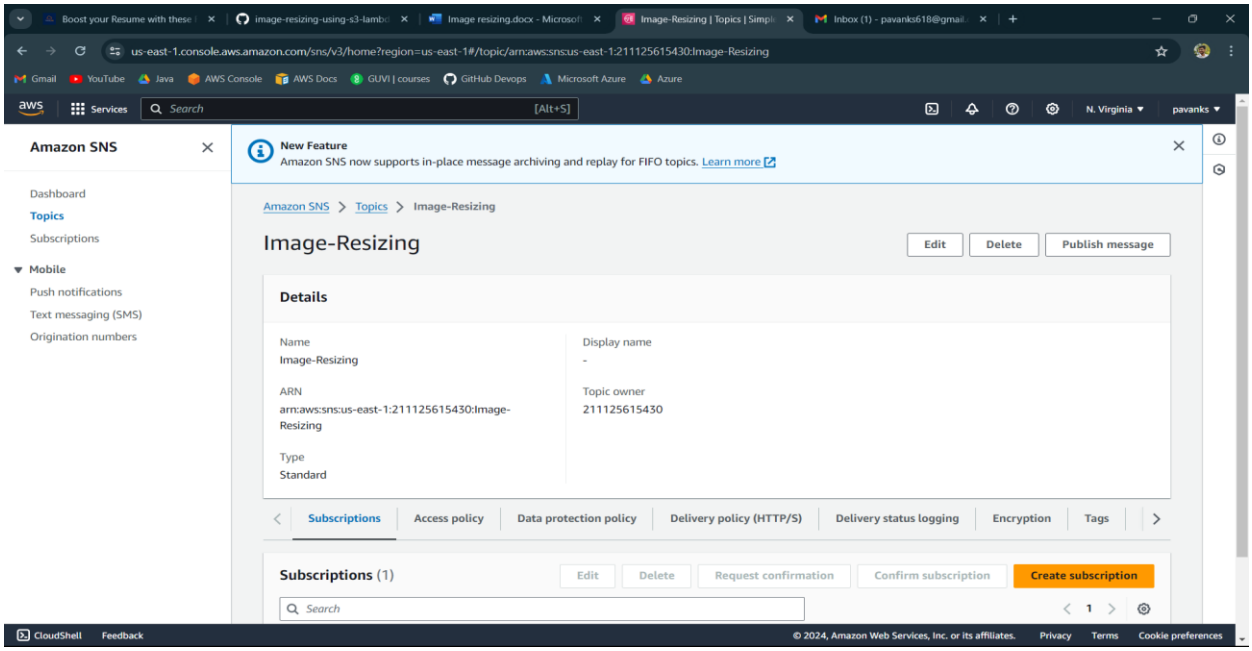
Image Resizing

Services Used – Lambda, S3, SNS, IAM

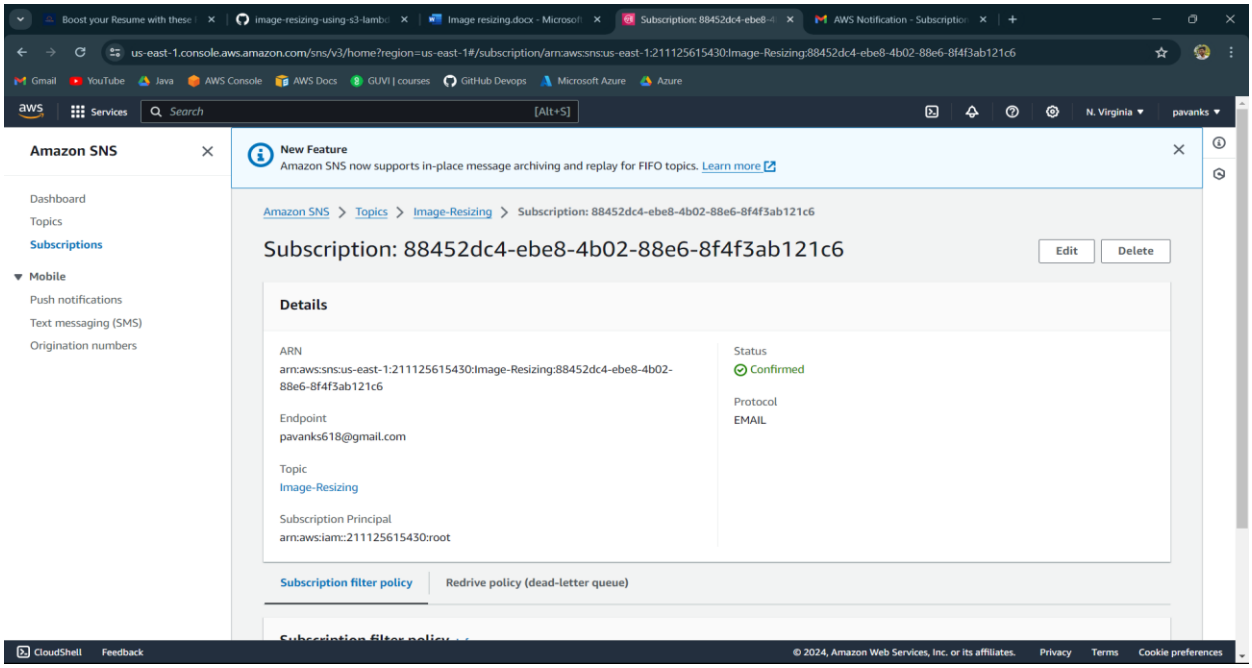
2 S3 buckets for Source and Destination



SNS Topic Creation

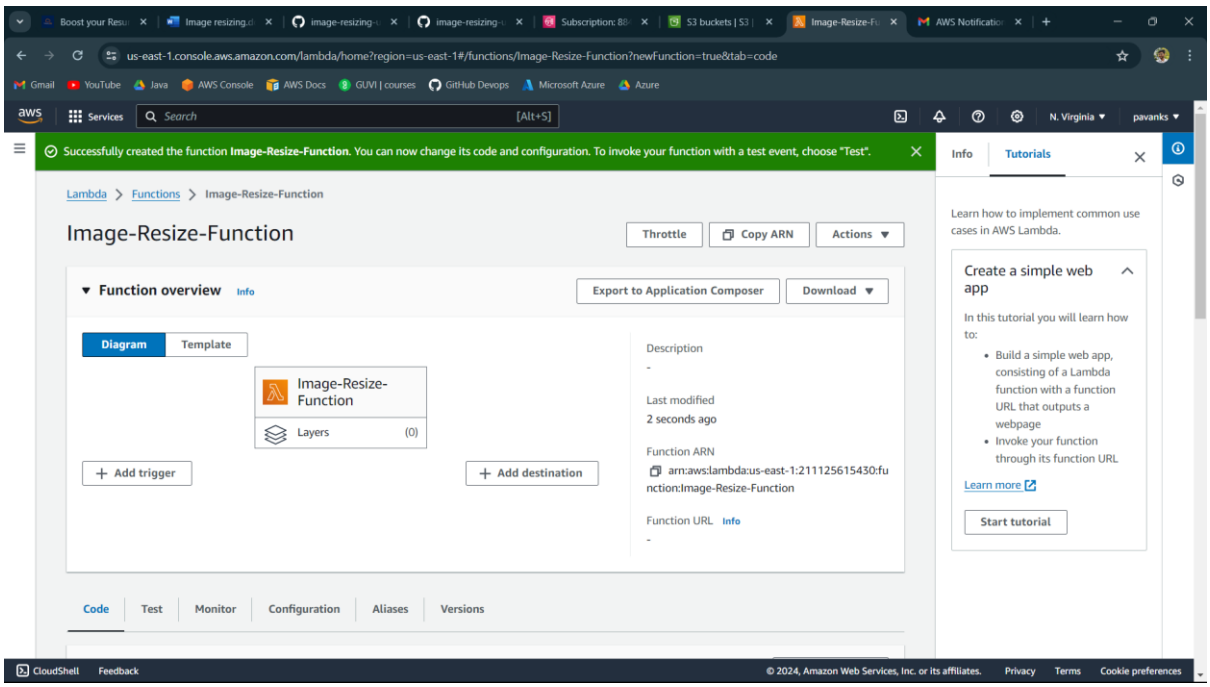


Creation of Subscription for Email Notifications

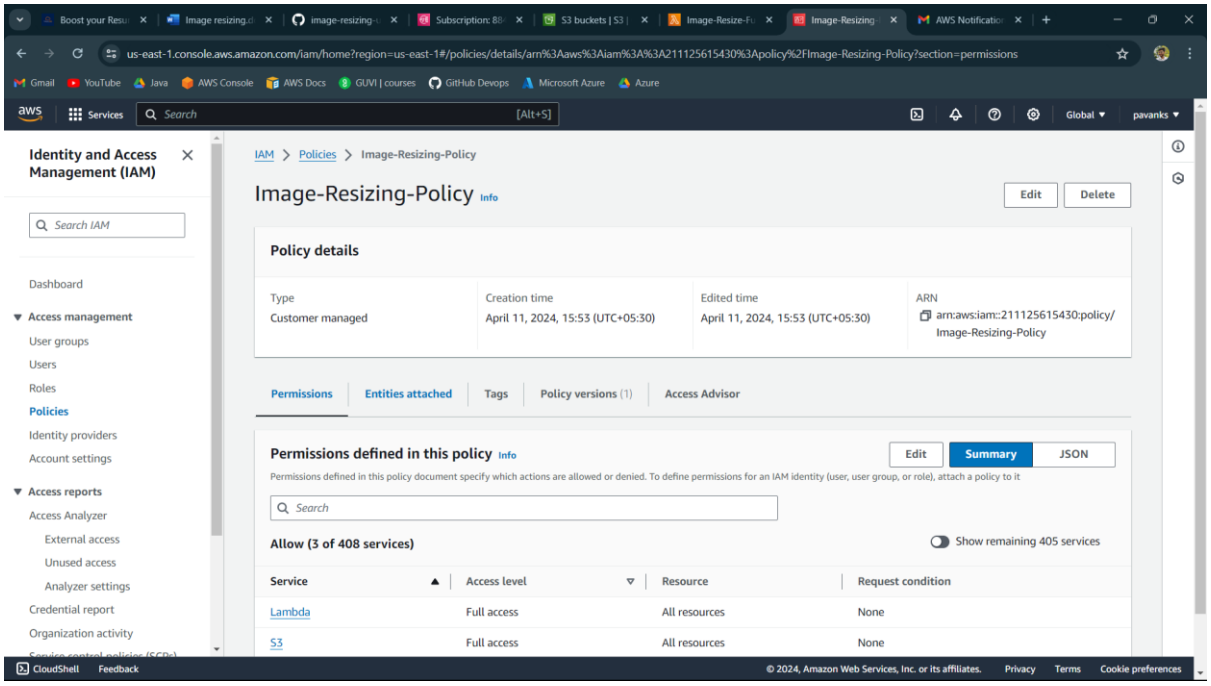


You will get a confirmation mail for subscription (click confirm subscription)

Creating a Lambda Function with python runtime



Creating an IAM policy to allow all Lambda, SNS and S3 actions

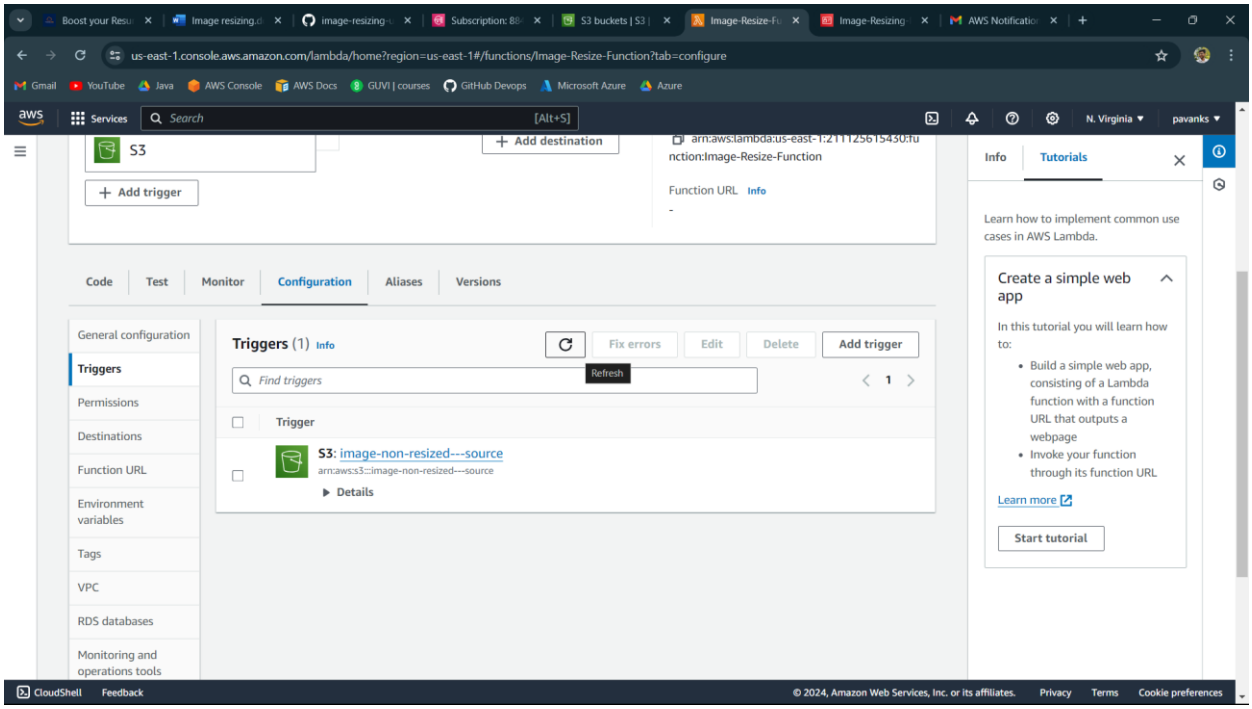


- Now Go to Lambda --> Configurations
- There will be an execution in the beginning with name pattern ------> (Image-Resize-Function-role-knhj2slw)
- Now attach the policy created to this role

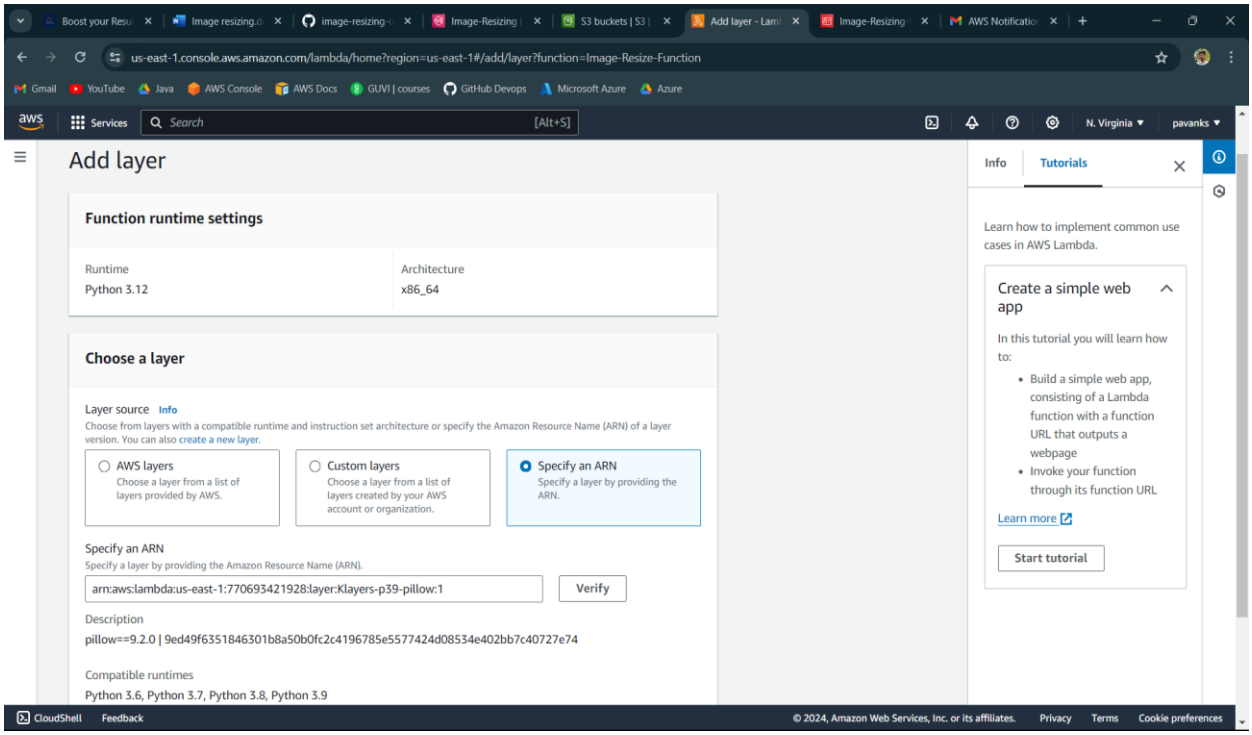
Adding trigger to the Lambda function

- In configuration Go to triggers
- There select add Triggers
- Select Triggers source service (S3 in this project) and then the source bucket

Trigger is used so that whenever an image is uploaded in the source S3 bucket it resizes the image (by using the python function) and sends it to the destination bucket.

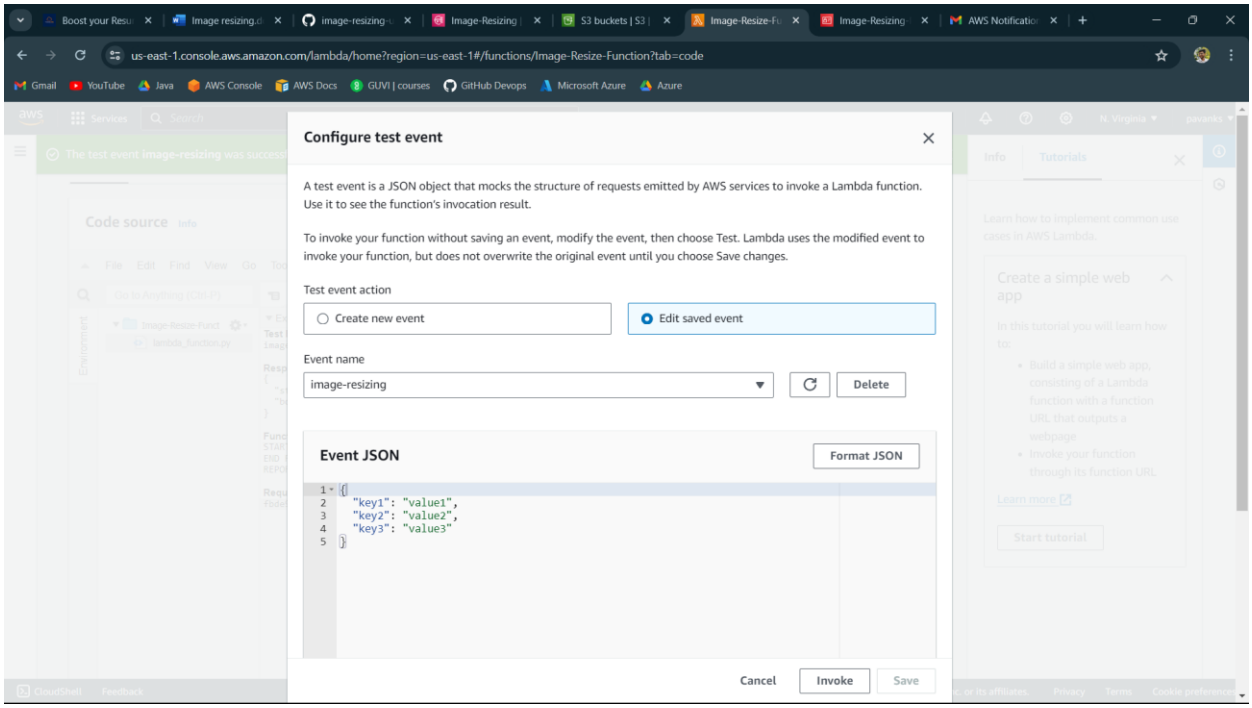


Add a layer in the code section



We add layers because to resize image we need a library called pillow. Installing pillow manually is time consuming process, so we use layers for easy action.

Then click on test and provide a name


us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/Image-Resize-Function?tab=code
Configure test event
A test event is a JSON object that mocks the structure of requests emitted by AWS services to invoke a Lambda function. Use it to see the function's invocation result.
To invoke your function without saving an event, modify the event, then choose Test. Lambda uses the modified event to invoke your function, but does not overwrite the original event until you choose Save changes.
Test event action
Create new event
Edit saved event
Event name
image-resizing
Delete
Event JSON
Format JSON
{
"key1": "value1",
"key2": "value2",
"key3": "value3"
}
Cancel
Invoke
Save