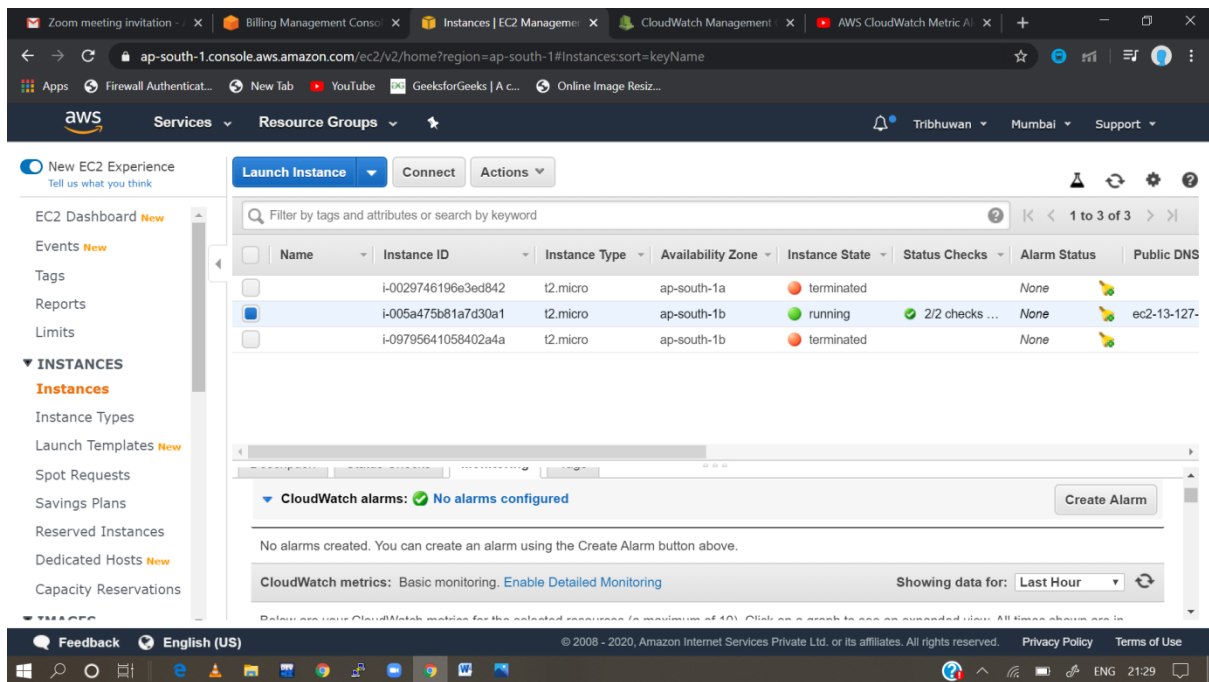


ASSIGNMENT- S3 BUCKET

Task: Create a lambda function to start, stop and terminate a running EC2 instance. Also, verify the logs generated by the lambda in the Cloudwatch logs to check whether the lambda execution is done properly.

Steps-

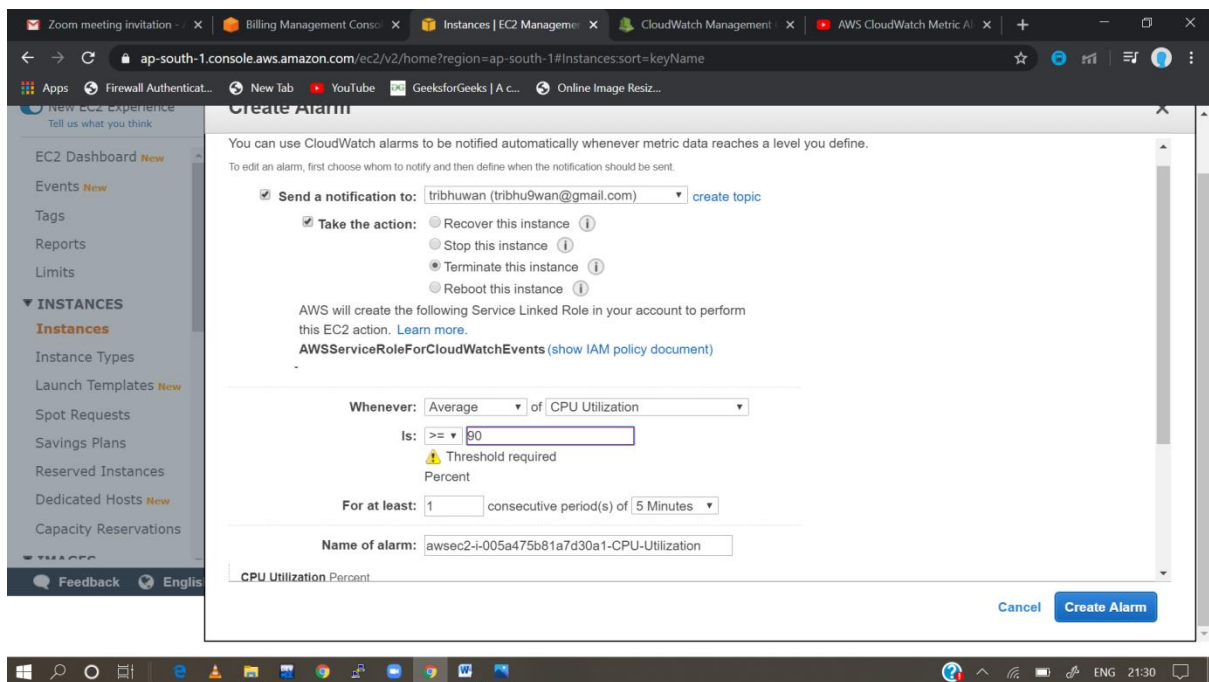
1.Create an instance



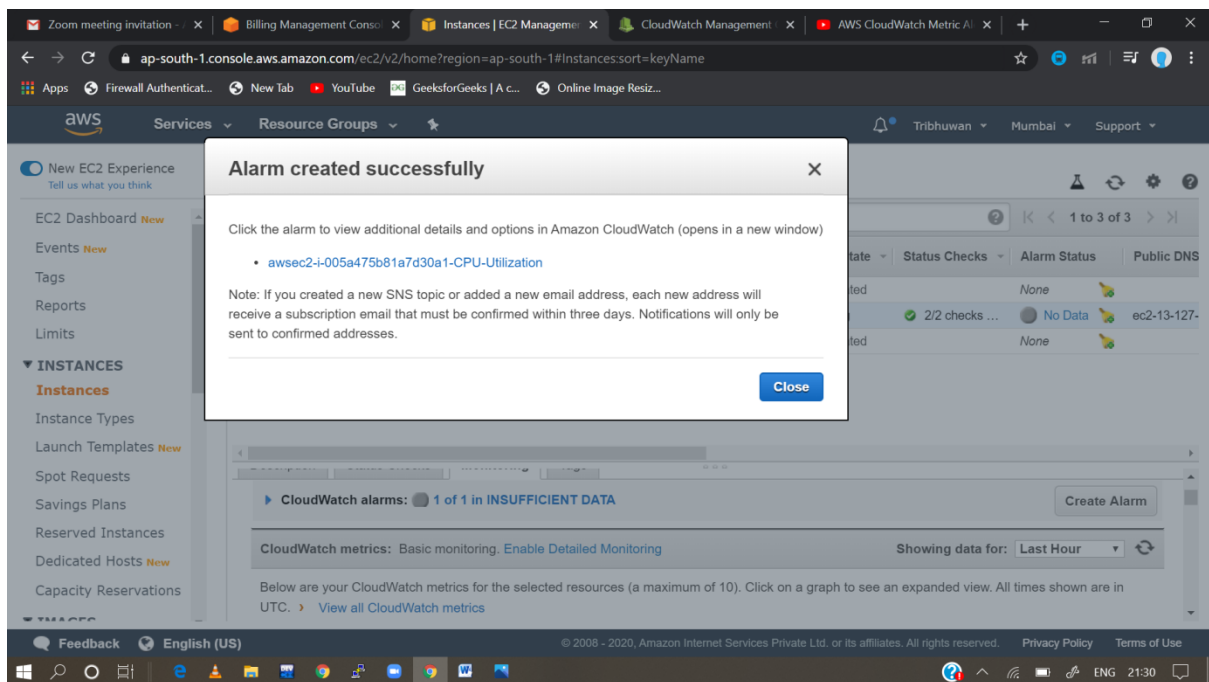
2. then go to monitoring and check cloud watch alarms and go to “No alarms configured”

Step-3: then go to create alarm

Step-4 configure the alarm settings

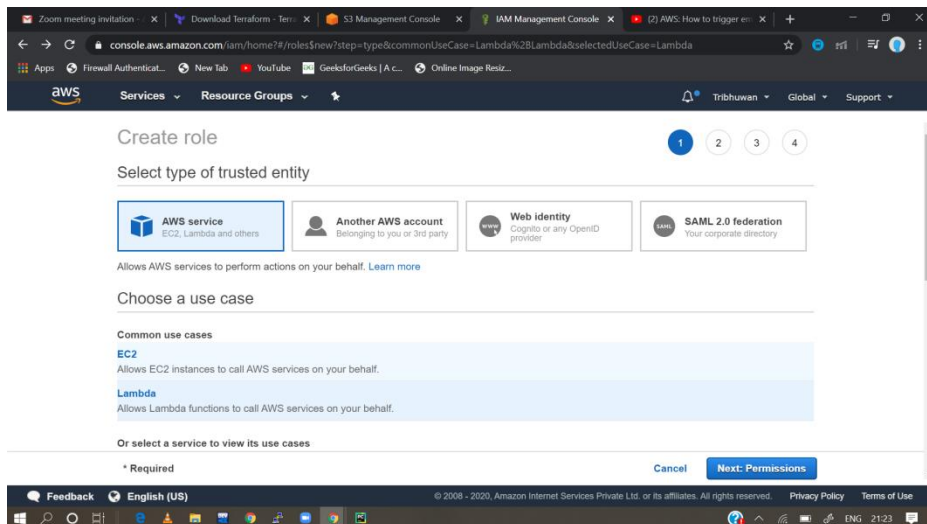


Step 5: Alarm set successfully.

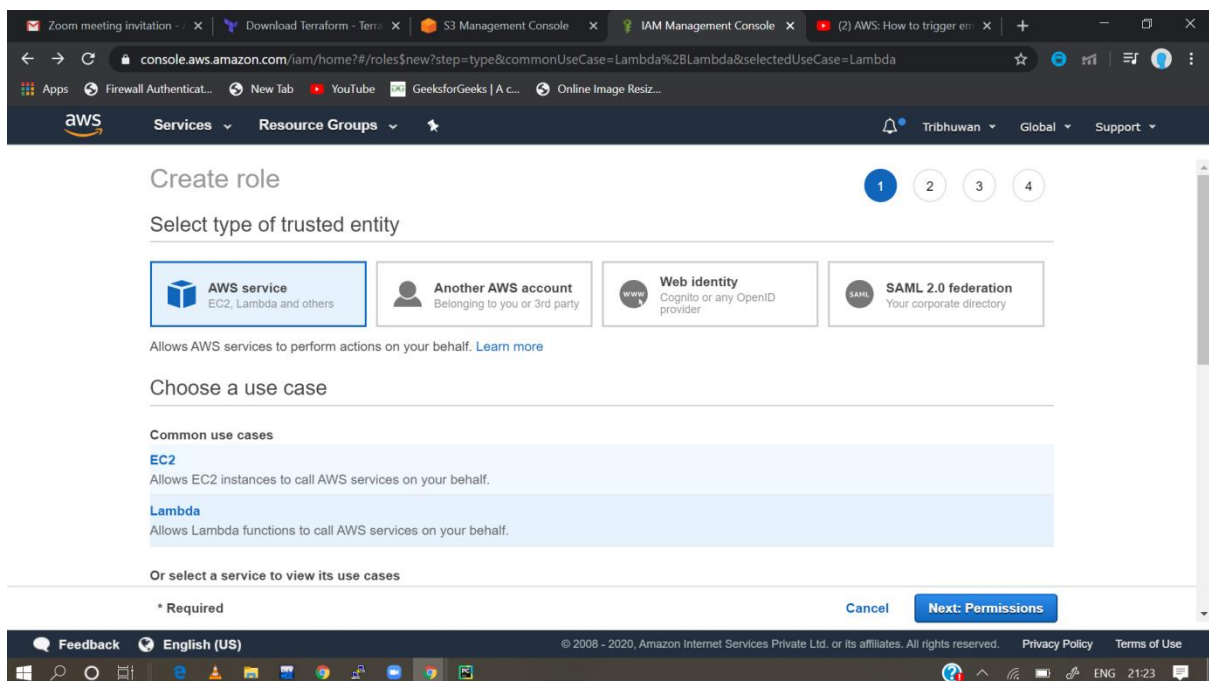


Task 2: Create a lambda function to send an email notification to your email id of your AWS account, as soon as you delete a file from an S3 bucket, mentioning the file name which is deleted.

Steps: First of all, we create a role which is a temporary access



2.then choose lambda and go to the next permission



3.then attach the permission policies

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console.aws.amazon.com/iam/home?#/roles\$new?step=permissions&commonUseCase=Lambda%2BLambda&selectedUseCase=Lambda

Services Resource Groups

Create role

1 2 3 4

▼ Attach permissions policies

Choose one or more policies to attach to your new role.

Create policy

Filter policies Showing 1 result

	Policy name	Used as
<input checked="" type="checkbox"/>	AWSLambdaExecute	None

* Required Cancel Previous Next: Tags

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4. review your role and then create the role

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console.aws.amazon.com/iam/home?#/roles\$new?step=review&commonUseCase=Lambda%2BLambda&selectedUseCase=Lambda&policies=arn...

Services Resource Groups

Create role

1 2 3 4

Review

Provide the required information below and review this role before you create it.

Role name*

Use alphanumeric and '+,=,@,_,.' characters. Maximum 64 characters.

Role description

Maximum 1000 characters. Use alphanumeric and '+,=,@,_,.' characters.

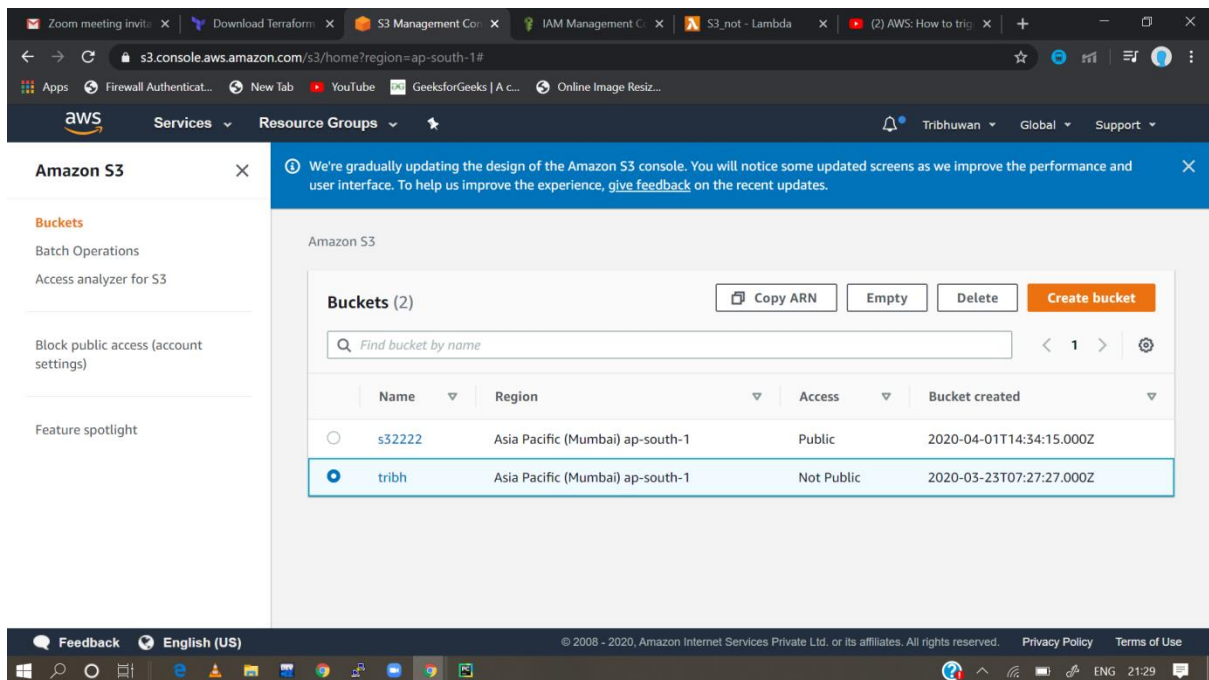
Trusted entities AWS service: lambda.amazonaws.com

Policies AmazonSESFullAccess AWSLambdaExecute

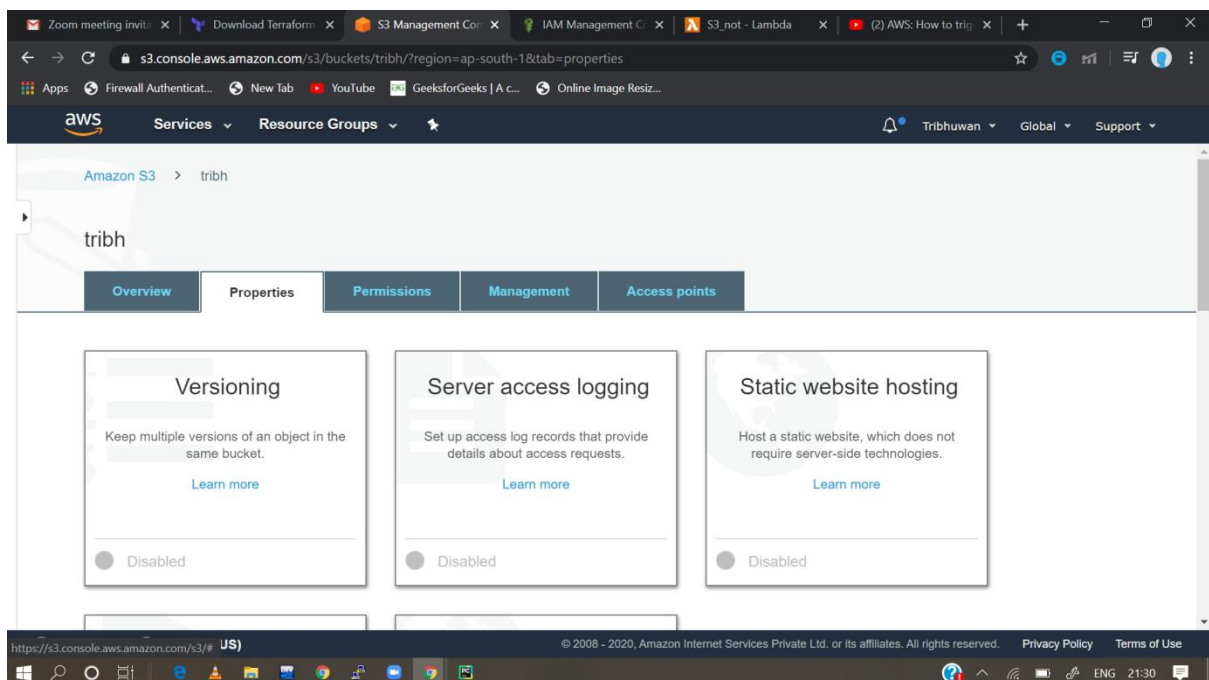
* Required Cancel Previous Create role

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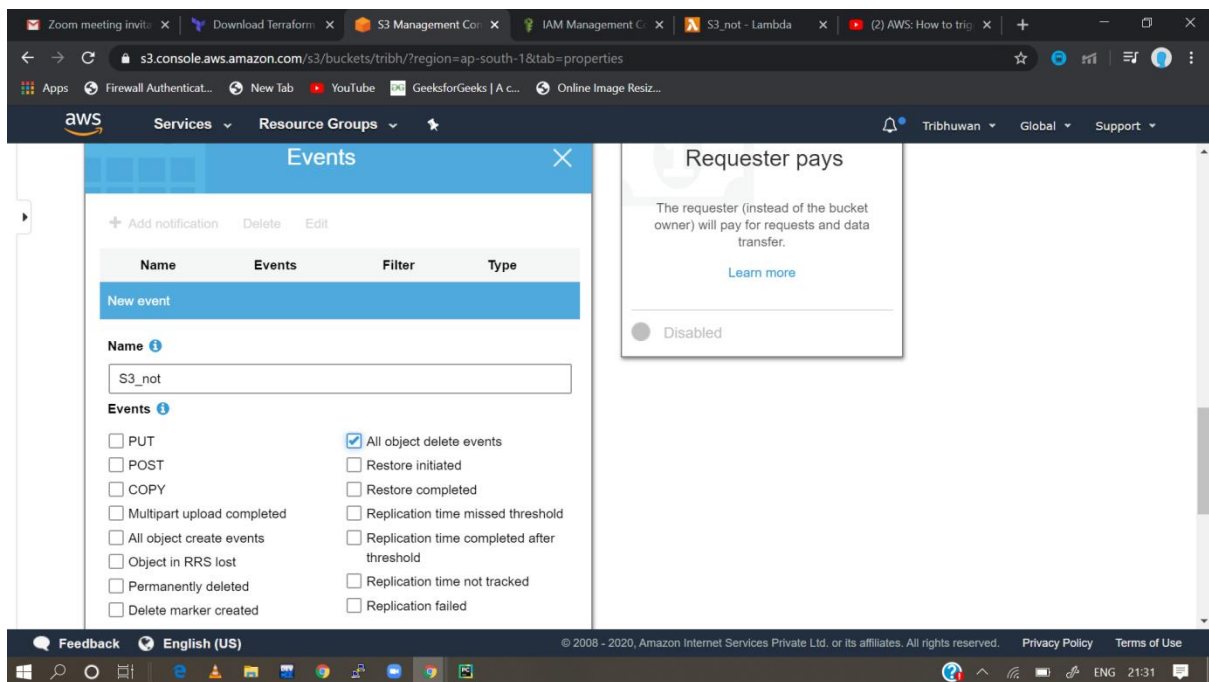
5. now role is created then we go to create bucket, but bucket is already existing, so we use the existing bucket



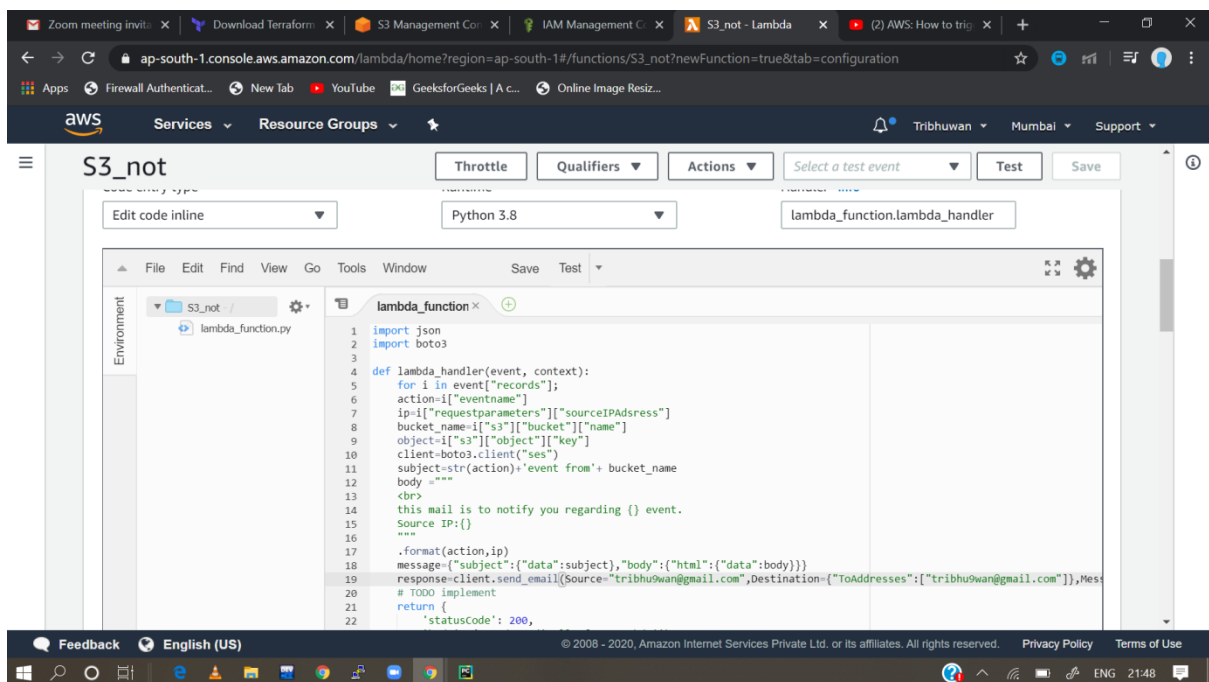
6. then we go to the properties of the existing bucket



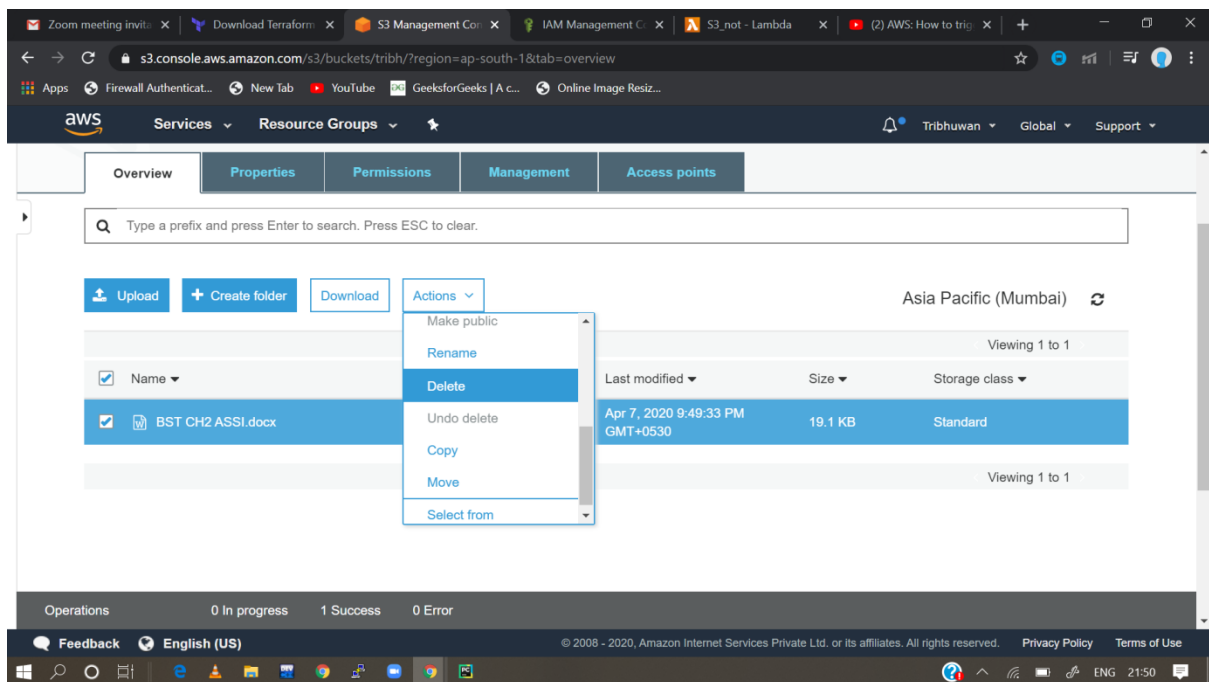
7. then we choose the events i.e; all object delete events



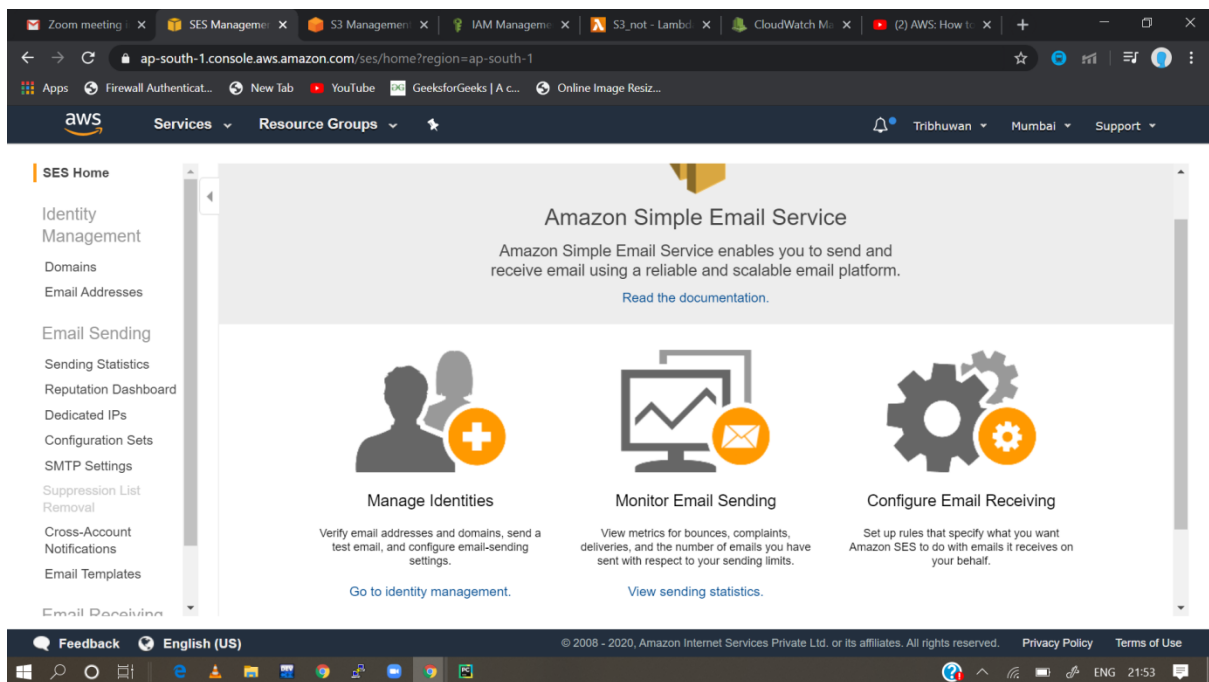
8. then go to lambda function and write the access code for the notifying mail for deleting any files from the s3 bucket



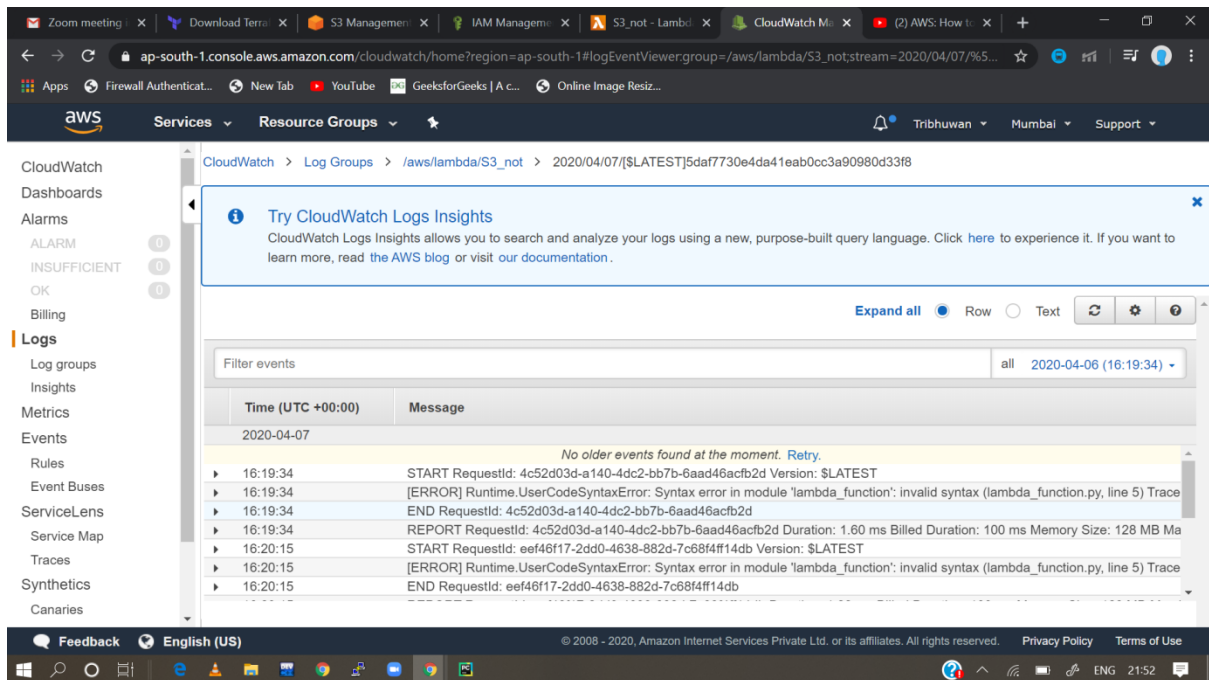
9. Delete the files from the bucket



10. go to simple email service to verify the email



11. then go to cloudwatch and check whether deleting notification is accessing or not



The screenshot shows the AWS CloudWatch console interface. The left sidebar contains navigation links for CloudWatch, Dashboards, Alarms, Logs, Metrics, Events, Rules, Event Buses, ServiceLens, Service Map, Traces, Synthetics, and Canaries. The main content area displays a log group for `/aws/lambda/S3_not` with a filter set to `all` and a time range of `2020-04-06 (16:19:34)`. The log events table shows the following entries:

Time (UTC +00:00)	Message
2020-04-07	No older events found at the moment. Retry .
16:19:34	START RequestId: 4c52d03d-a140-4dc2-bb7b-6aad46acfb2d Version: \$LATEST
16:19:34	[ERROR] Runtime.UserCodeSyntaxError: Syntax error in module 'lambda_function': invalid syntax (lambda_function.py, line 5) Trace
16:19:34	END RequestId: 4c52d03d-a140-4dc2-bb7b-6aad46acfb2d
16:19:34	REPORT RequestId: 4c52d03d-a140-4dc2-bb7b-6aad46acfb2d Duration: 1.60 ms Billed Duration: 100 ms Memory Size: 128 MB Ma
16:20:15	START RequestId: eef46f17-2dd0-4638-882d-7c68f4ff14db Version: \$LATEST
16:20:15	[ERROR] Runtime.UserCodeSyntaxError: Syntax error in module 'lambda_function': invalid syntax (lambda_function.py, line 5) Trace
16:20:15	END RequestId: eef46f17-2dd0-4638-882d-7c68f4ff14db

12. If it is accessing then check the emails otherwise check the functions again and perform the same tasks again