Date 07-05-2024

Hands on Lambda

Services Involved >>> S3, IAM & CloudWatch

https://docs.aws.amazon.com/lambda/latest/dg/with-s3-example.html

Step 1 >>> Create a IAM Role for Lambda to access the services >>> S3, CLoudwatch and Lambda

Roles >>> Create a Role >>> AWS service

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>>> Use case >>>> Lambda >>> Next

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AmazonS3FullAccess

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CloudWatchFullAccess

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AWSLambda\_FullAccess

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Next

Role name >>> IAMroleforLambda

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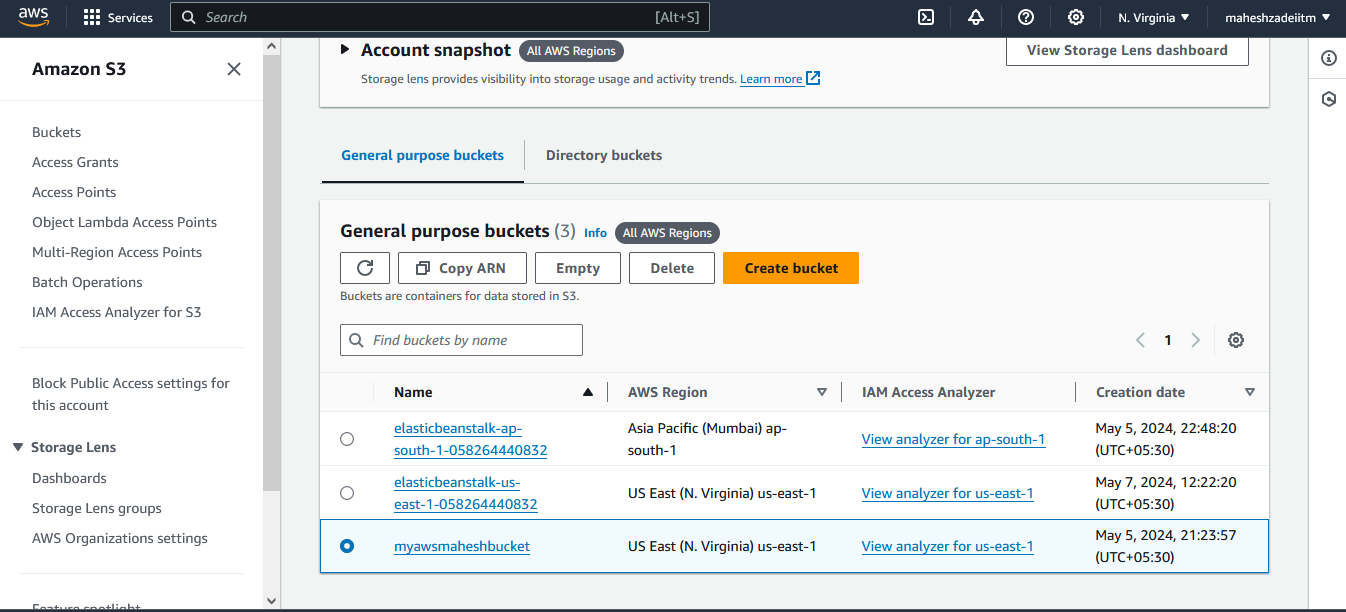
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Create a Role

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Now go to S3 Bucket

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Description automatically generatedupload the file A screenshot of a computer

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Give the read and Write permissions

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Click on the I understand the effects of these changes on this object.

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Step 2 >>> Create a S3 Bucket with default settings (or) choose the existing bucket –Created Above

But make sure S3 Bucket and Lambda both are in same Region

[myawsmaheshbucket](https://us-east-1.console.aws.amazon.com/s3/buckets/myawsmaheshbucket?region=us-east-1&bucketType=general)

Step 3 >>> Go to the Lambda >>> Create function >>>> Author from scratch

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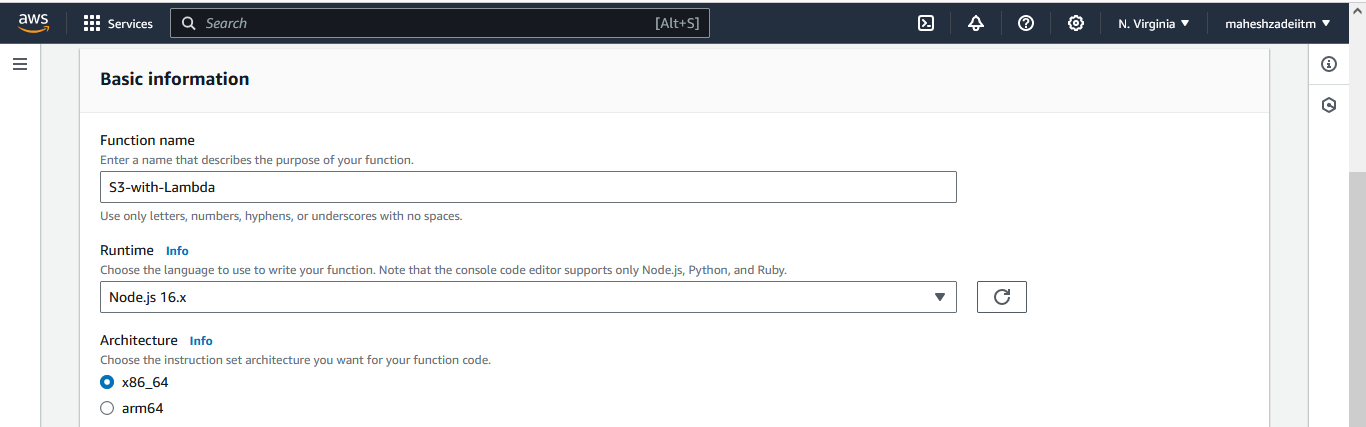
Function name >>> S3 with Lambda

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Runtime >>> Nodejs-16.x

Architecture >>> x86\_64



Change default execution role >>>> Use an existing role >>>> Select the role that you have created in Step#1

Create a Function .

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Step 4 >>> Once you are inside the Lambda Function >>> Add trigger

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>>>> Trigger configuration >>>> S3

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Description automatically generatedBucket >>>> Choose your Bucket

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Event types >>> ALL

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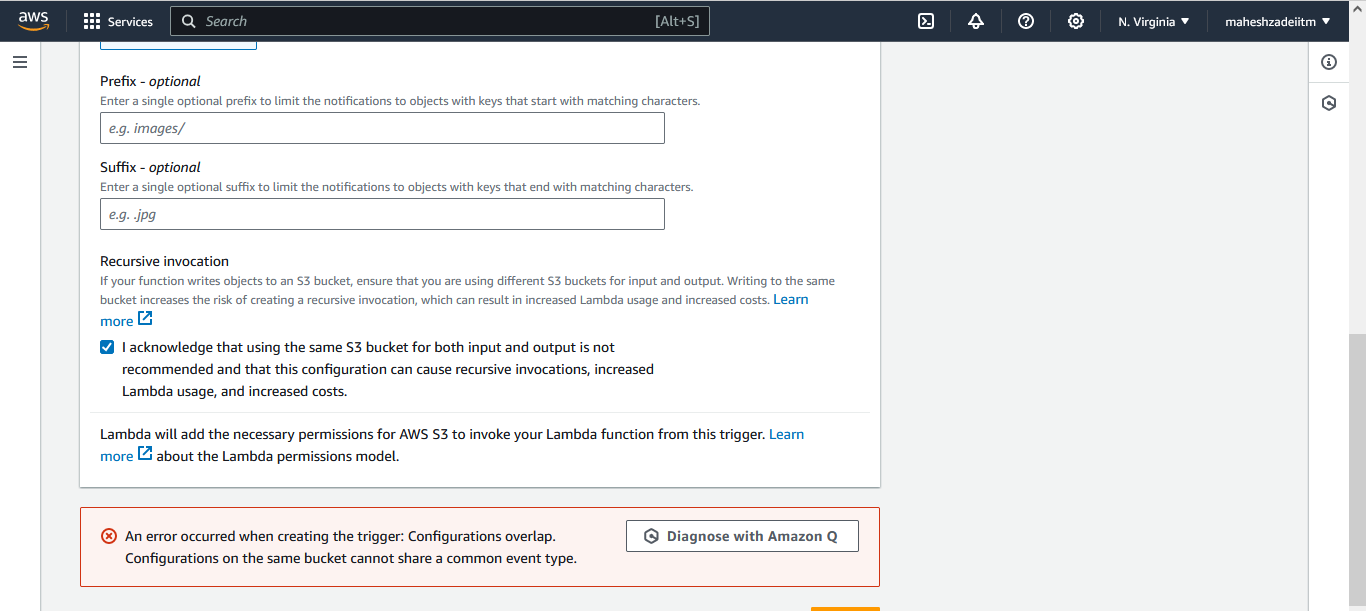
Check the box >>> I acknowledge

Add

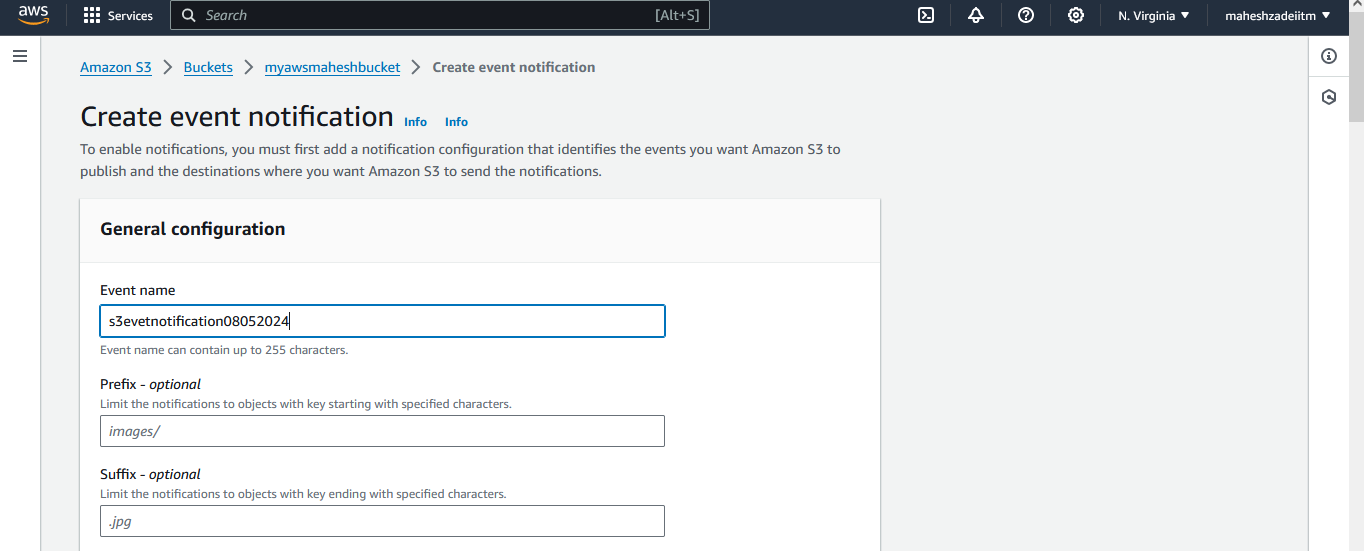
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Getting below error



So create new event notification



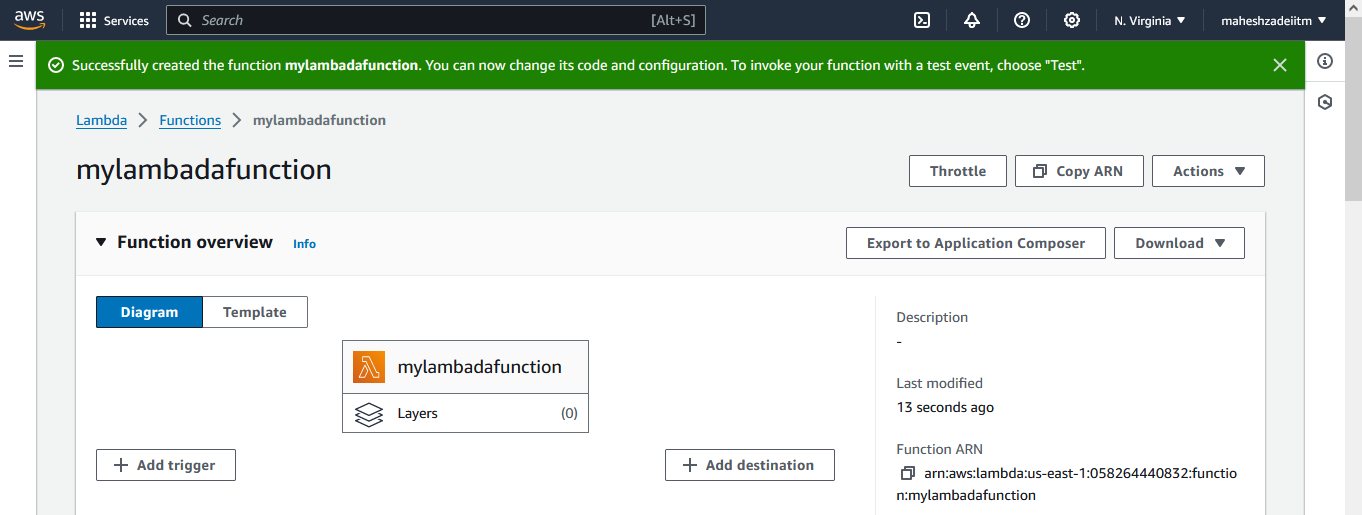
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Troubleshooting as getting errors



Step 5 >>> Now go to the Code at the bottom and delete that code, and replace with the below code

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Now add the code below mentioned and save

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Description automatically generated

exports.handler = function(event, context, callback) {

console.log("Incoming Event: ", event);

const bucket = event.Records[0].s3.bucket.name;

const filename = decodeURIComponent(event.Records[0].s3.object.key.replace(/\+/g, ' '));

const message = `File is uploaded in - ${bucket} -> ${filename}`;

console.log(message);

callback(null, message);

};

Once you have replaced >>> File >>> Save

Then >>> Click on "Test"

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One time it will ask you to configure the test events

Event name >>>> s3events >>> Save

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Again >>> Click on "Test"

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Once test is completed you can see there is Status = "Succeeded"

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Final Step >>>> Click on "Deploy"

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At the top you can see a notification >>> Successfully updated the function **mylambadafunction**

Step 6 >>>> Now you can go to the "Monitor"

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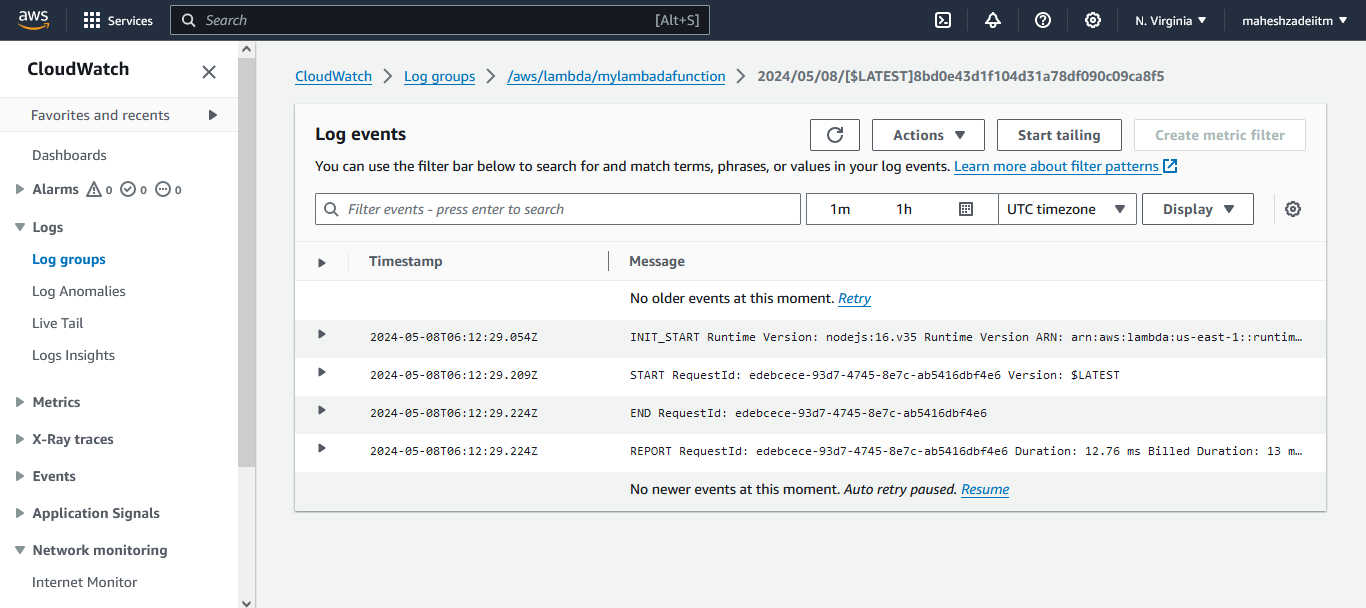
Click on View "CLoudwatch logs"

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There you can see your log groups and Log streams

The configuration of the lambda for this scenario is completed here.

Testing ??????

Upload a file again and check the log group

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Step 7 >>>> Testing

Copy the URL

https://myawsmaheshbucket.s3.amazonaws.com/saproutererror.png

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Lambda Function done Successfully

Pls check and update

Thanks

ElasticBeanstalk Lab