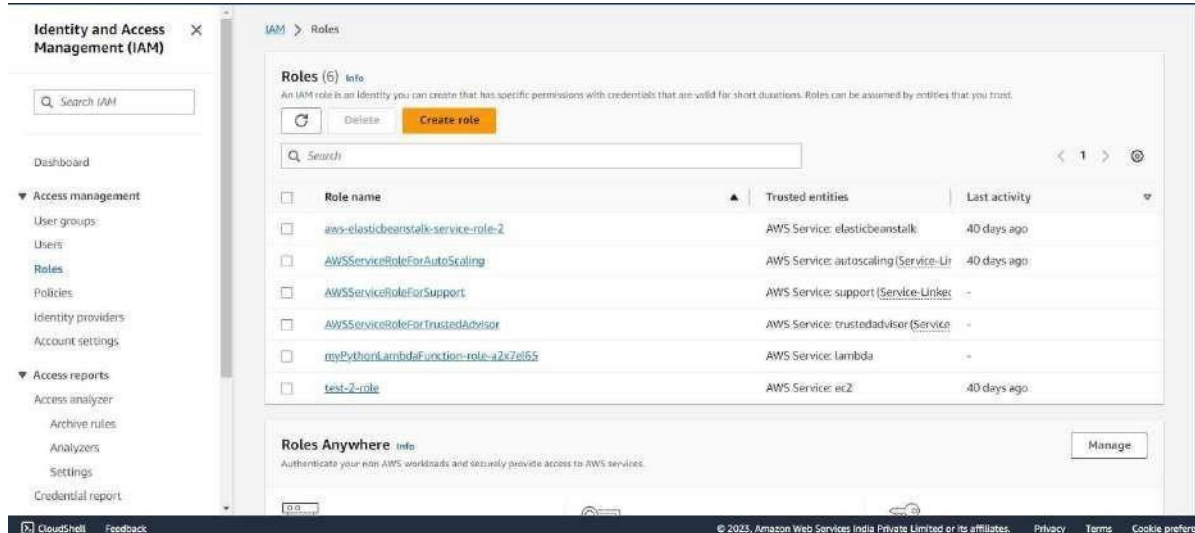


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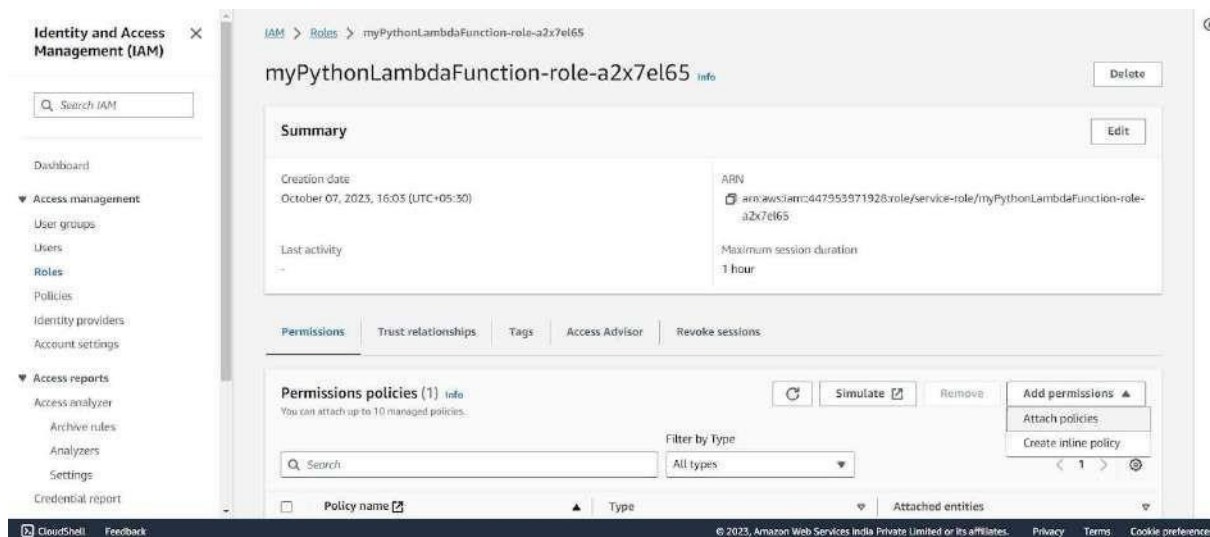
Name : Rohan Lalchandani

Class : D15A Roll no : 25

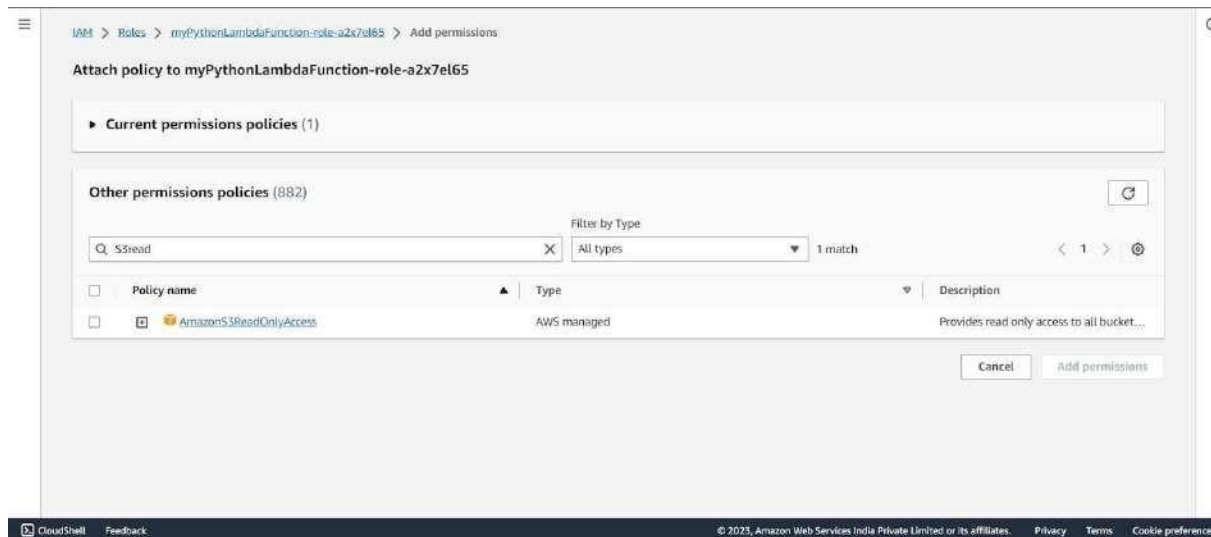
Step 1: Open the IAM (user)



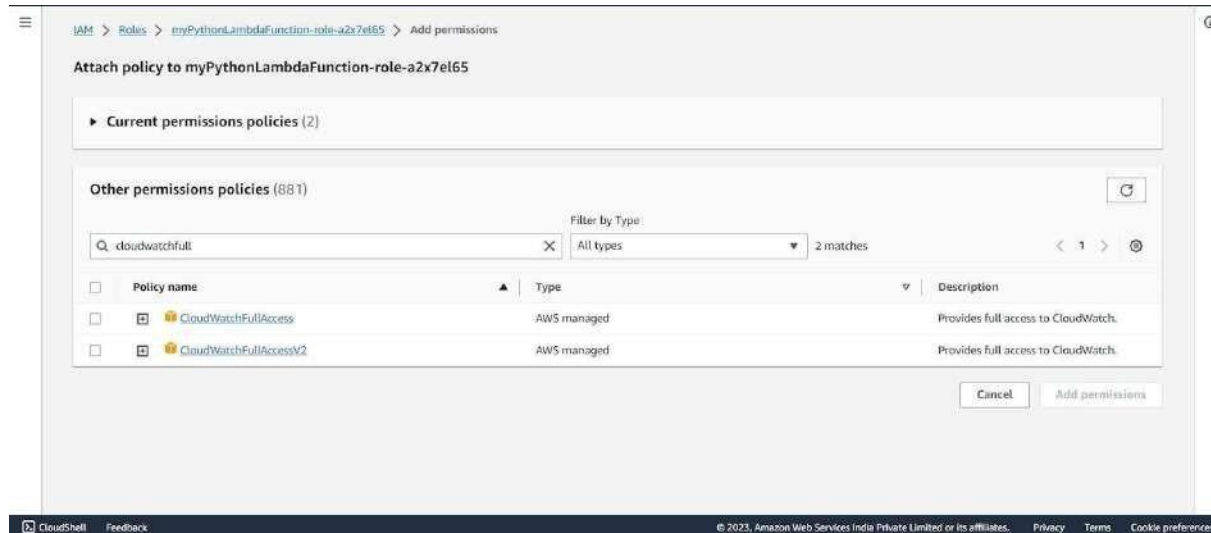
Step 2: Under Attach Policies, add S3-ReadOnly and CloudWatchFull permissions to this role.



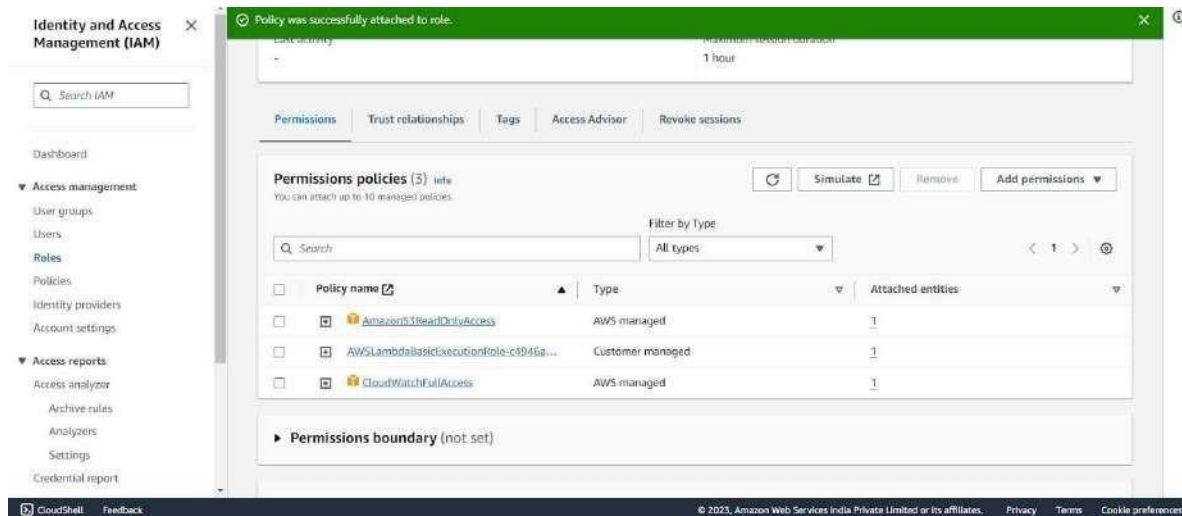
S3-ReadOnly



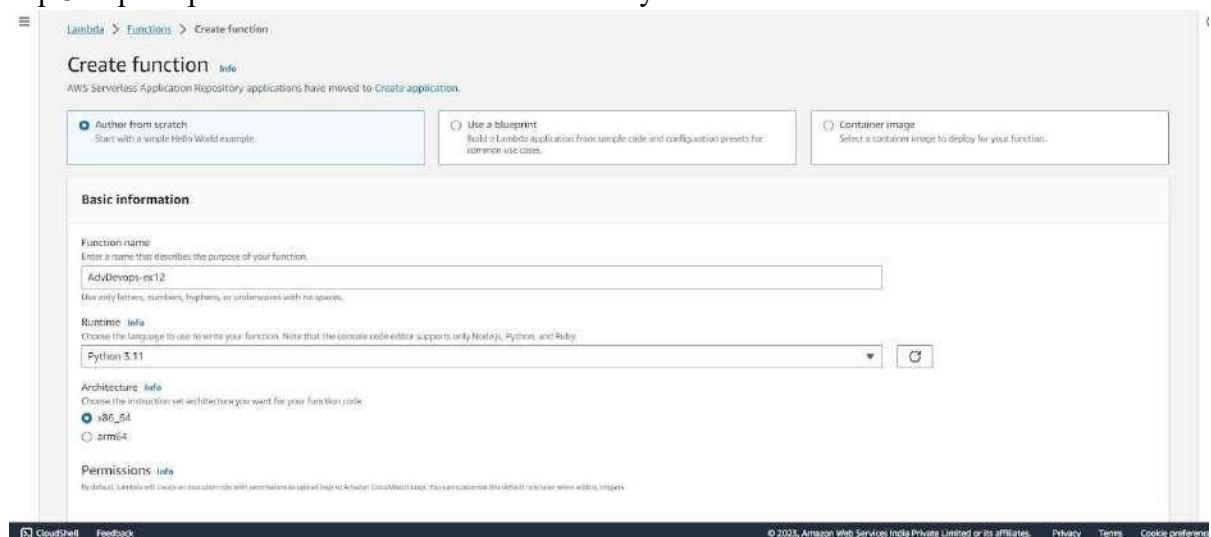
CloudWatchFull



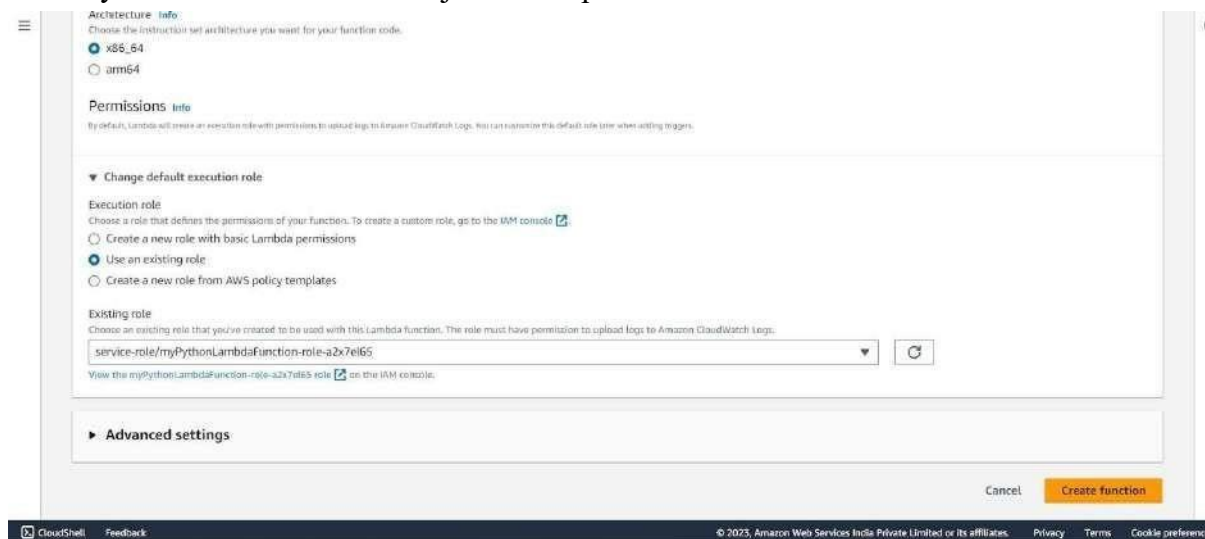
After successful attachment of policy you will see something like this you will be able to see the updated policies.



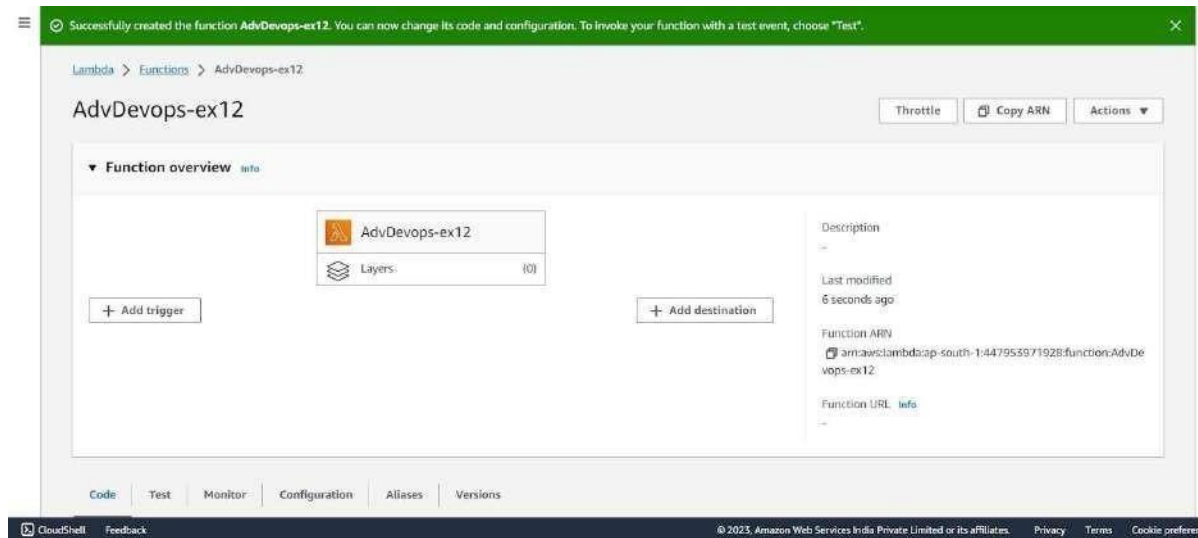
Step 3: Open up AWS Lambda and create a new Python function.



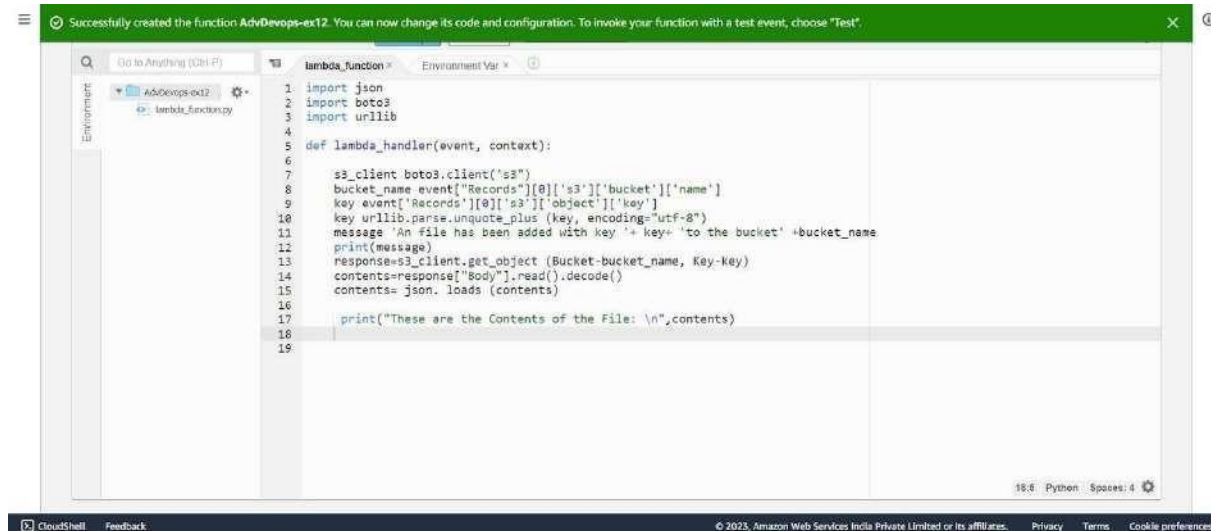
Under Execution Role, choose the existing role, then select the one which was previously created and to which we just added permissions.



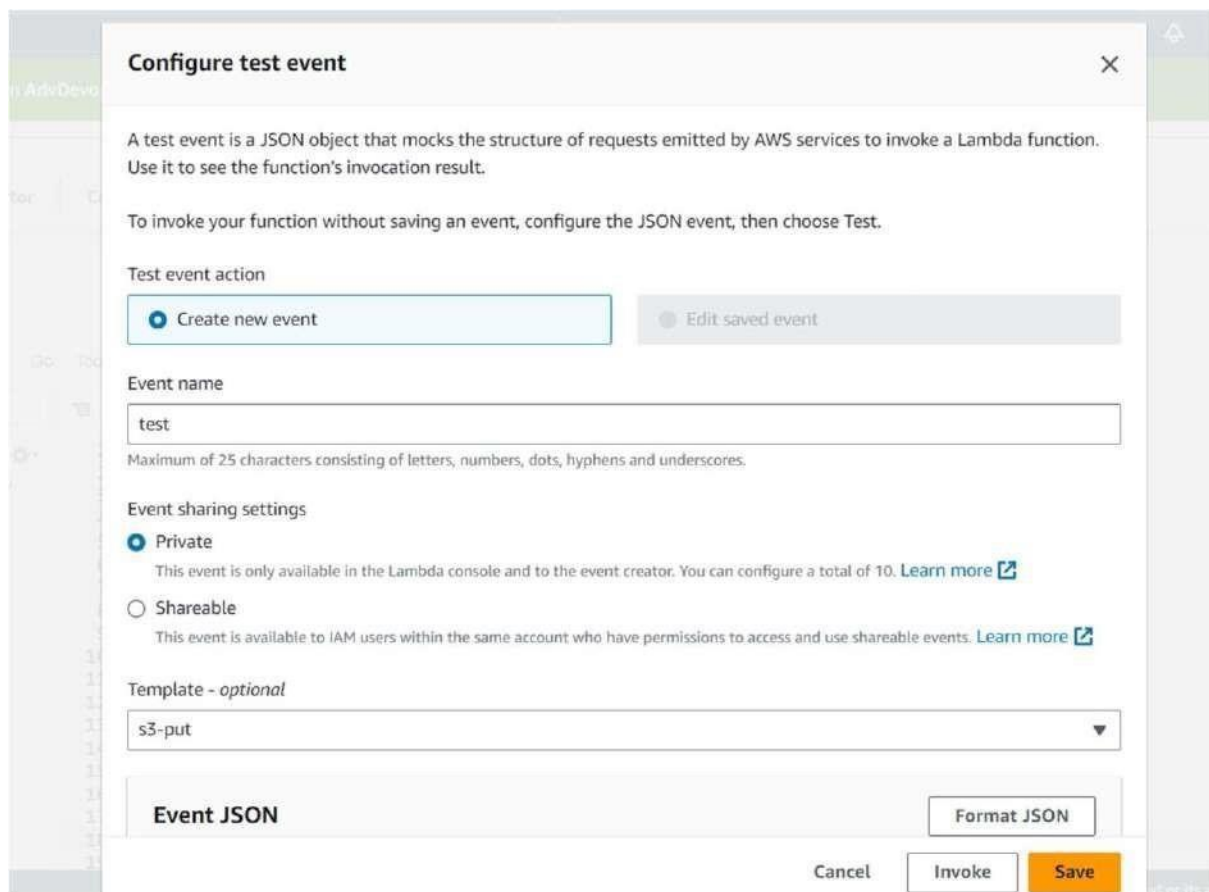
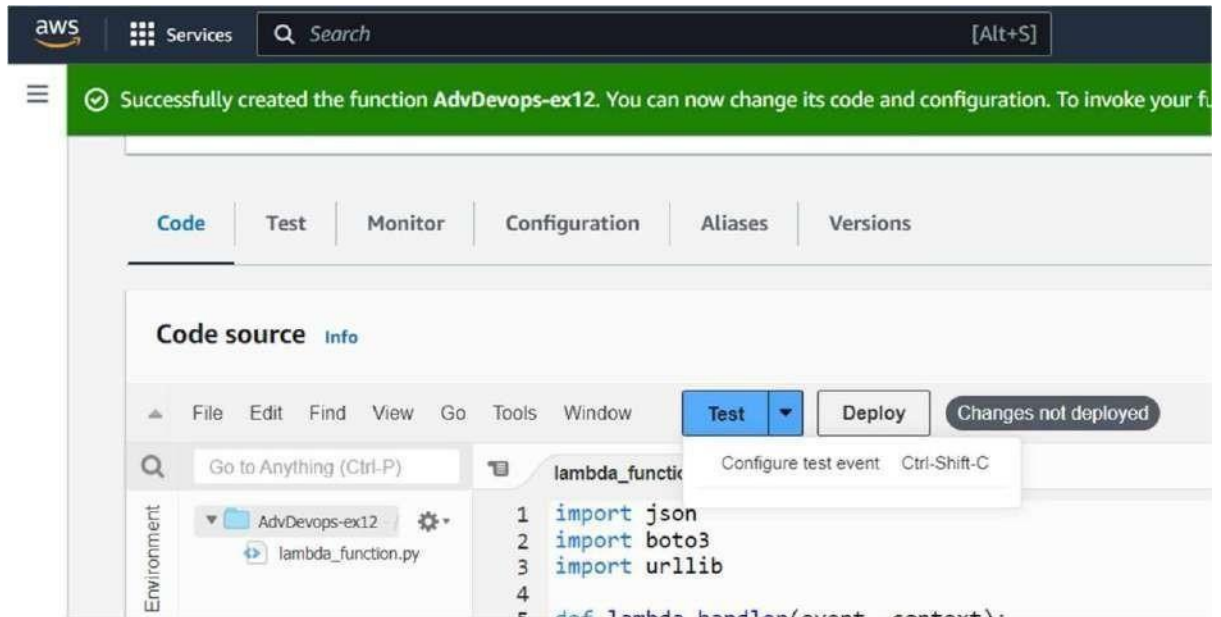
Step 4: The function is up and running.



Step 5: Make the following changes to the function and click on the deploy button. This code basically logs a message and logs the contents of a JSON file which is uploaded to an S3 Bucket and then deploy the code.

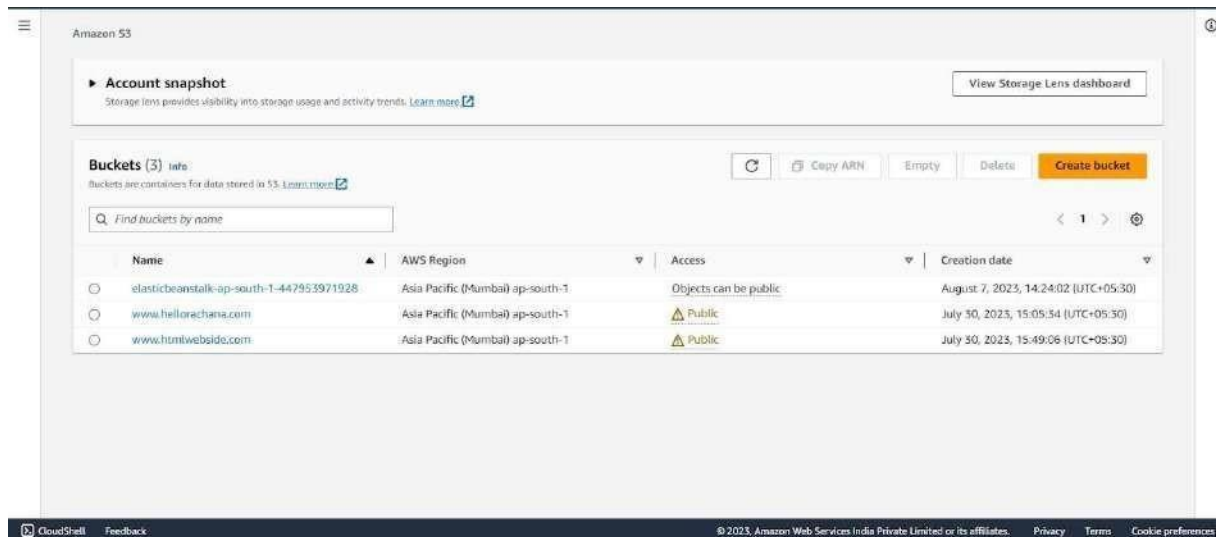


Step 6: Click on Test and choose the 'S3 Put' Template.

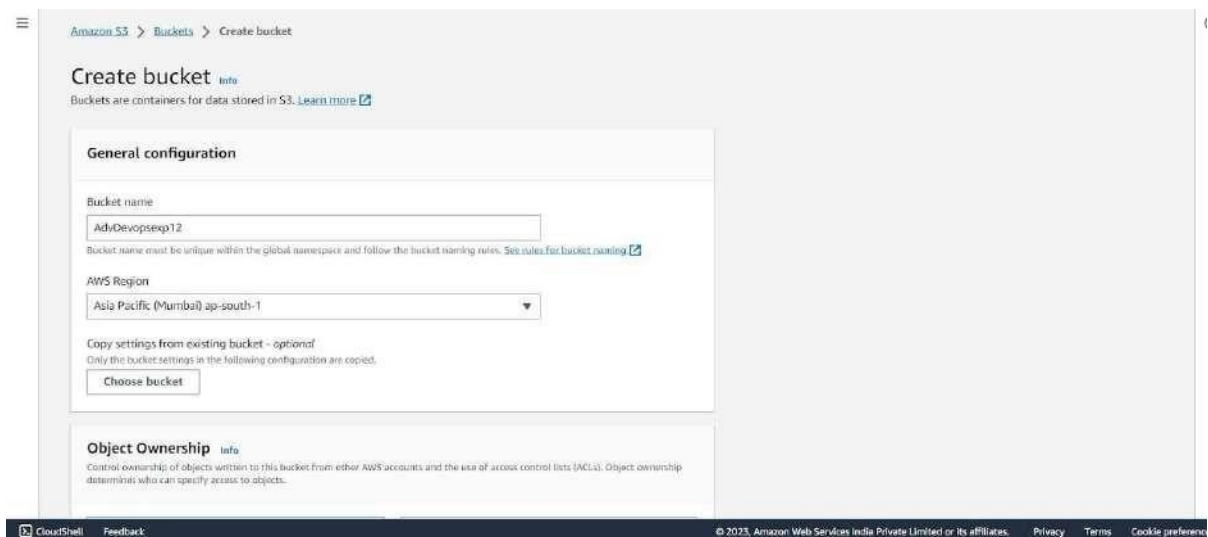


And Save it.

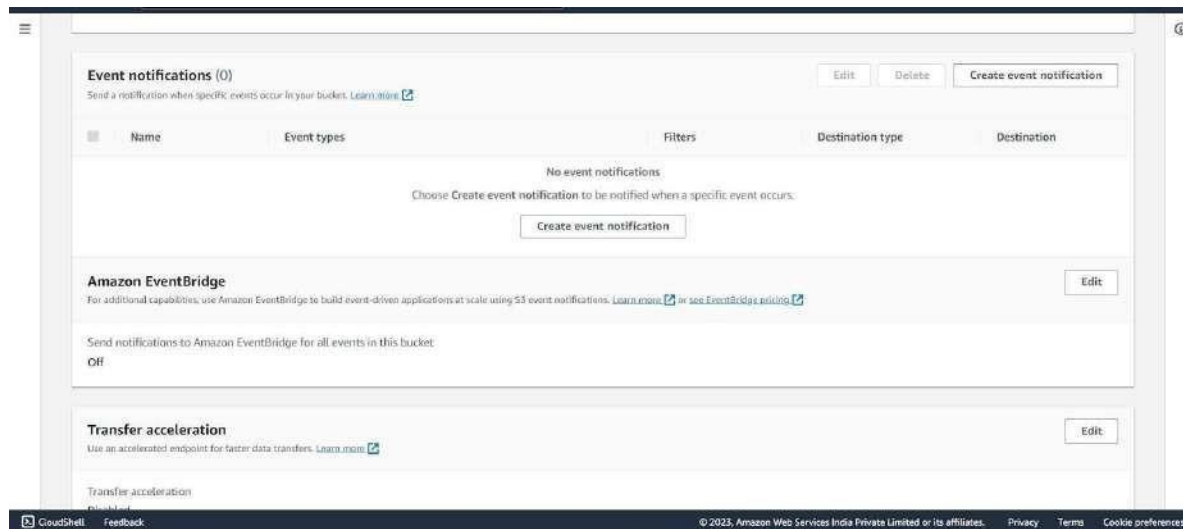
Step 7: Open up the S3 Console and create a new bucket.



Step 8: With all general settings, create the bucket in the same region as the function.

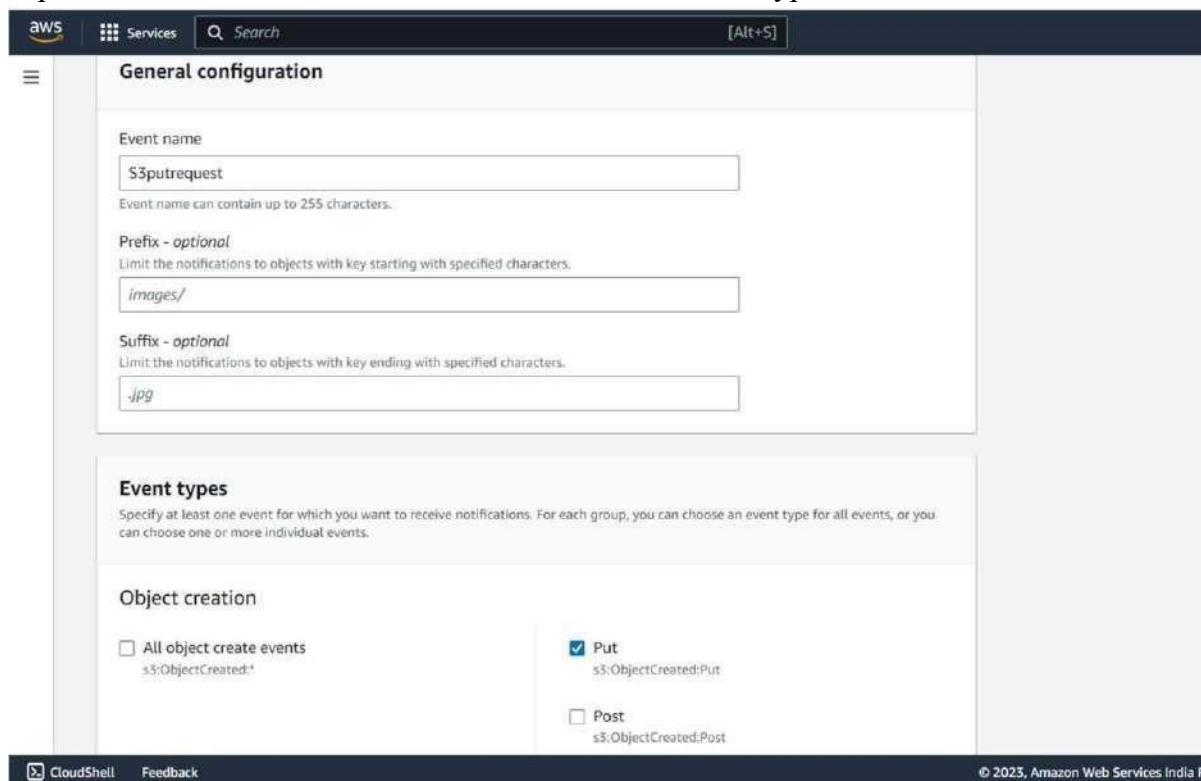


Step 9: Click on the created bucket and under properties, look for events.

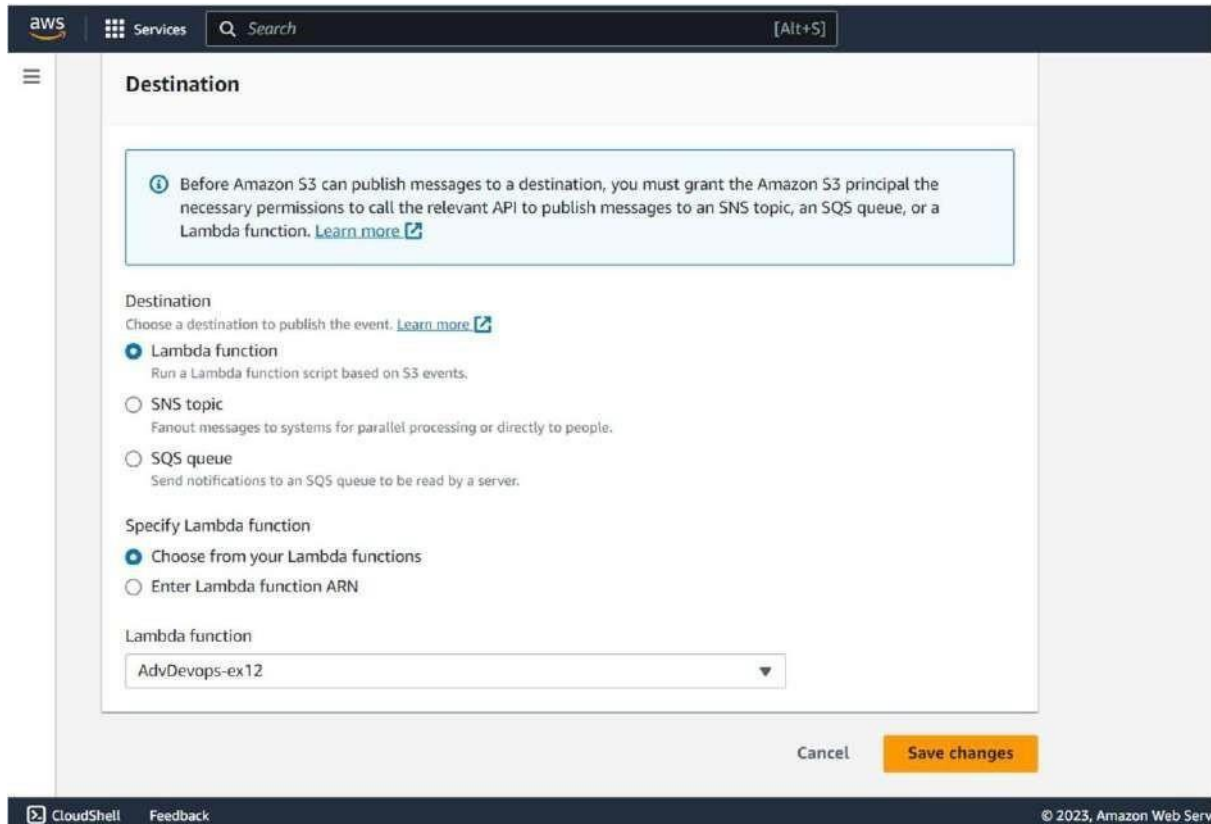


Click on Create Event Notification.

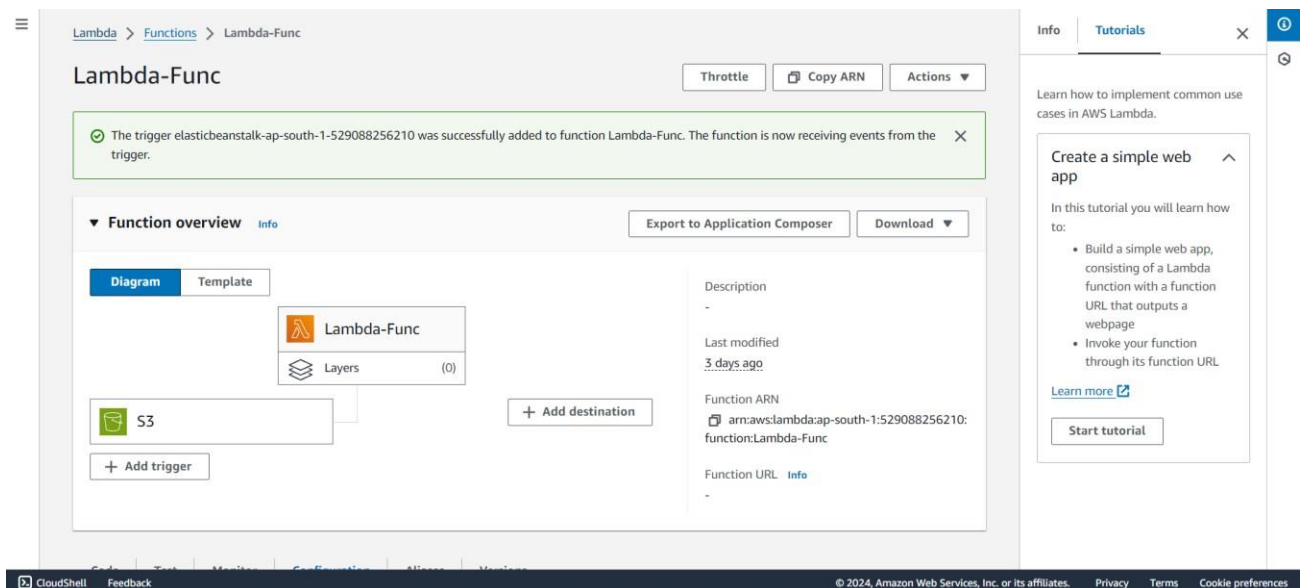
Step 10: Mention an event name and check Put under event types.



Choose Lambda function as destination and choose your lambda function and save the changes.



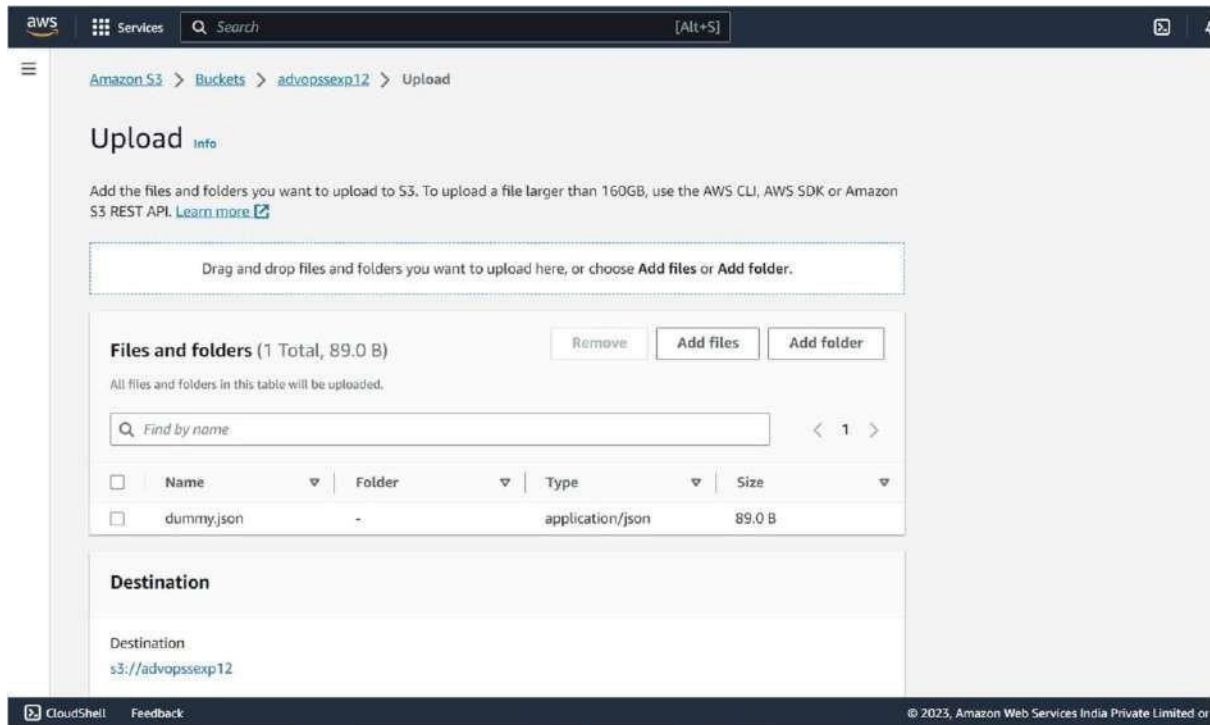
Step 11: Refresh the Lambda function console and you should be able to see an S3 Trigger in the overview.



Step 12: Now, create a dummy JSON file locally.

Step 13: Go back to your S3 Bucket and click on Add Files to upload a new file.

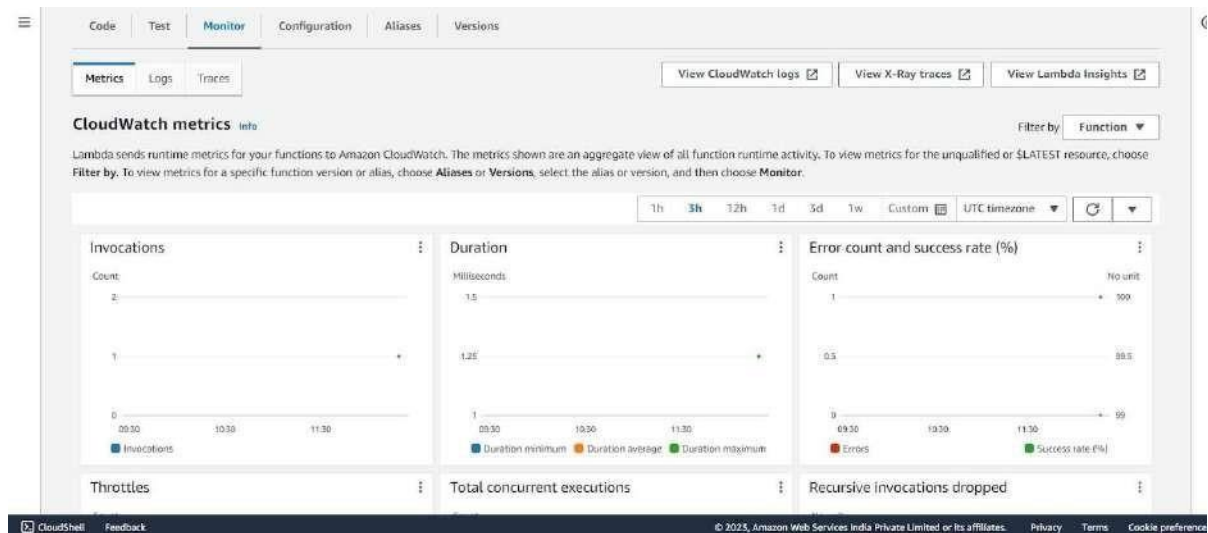
Step 14: Select the dummy data file from your computer and click Upload.



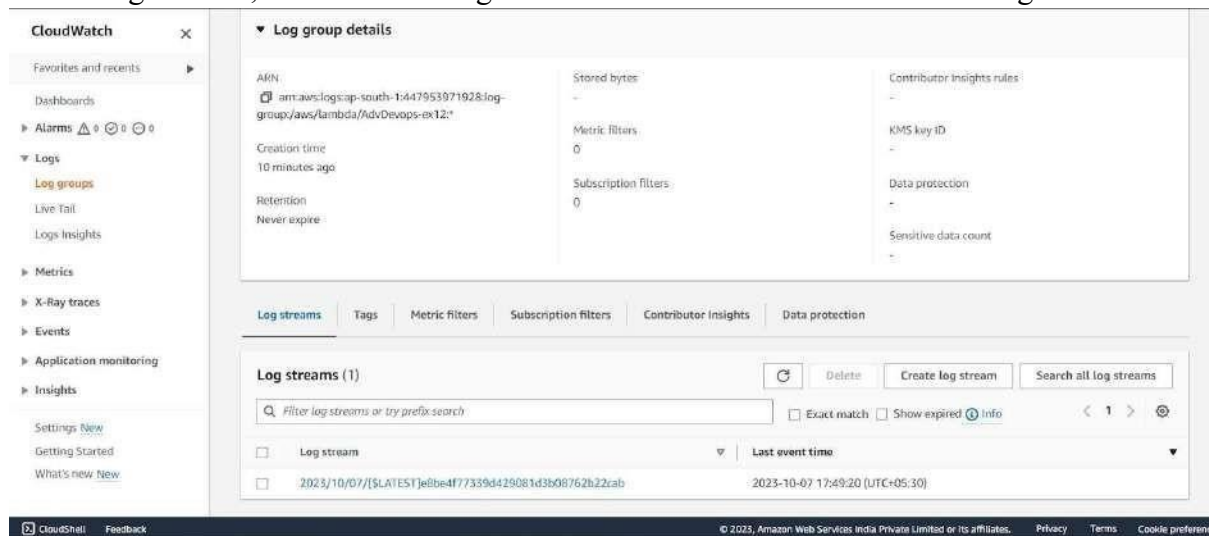
Step 15: After this make the necessary changes in the Test configuration file which we created it previously by replacing the Bucket Name and the ARN of Bucket.



Step 16: Go back to your Lambda function , Refresh it and check the Monitor tab.



Under Log streams, click on View logs in Cloudwatch to check the Function logs.



Step 17: Click on this log Stream that was created to view what was logged by your function.

CloudWatch

Favorites and recents

Dashboards

Alarms

▼ Logs

Log groups

Log Anomalies

Live Tail

Logs Insights

Contributor Insights

Metrics

X-Ray traces

Events

Application Signals

Network monitoring

Insights

Settings

Getting Started

CloudWatch > Log groups > /aws/lambda/Lambda-Func > 2024/10/11/[\$LATEST]aff54e3f606143548ec12e1f2f25a4df

Log events

You can use the filter bar below to search for and match terms, phrases, or values in your log events.

Filter events - press enter to search

Clear

1m

30m

1h

12h

Custom

UTC timezone

Display

Timestamp

Message

No older events at this moment.

2024-10-11T05:23:33.473Z

INIT_START Runtime Version: python:3.12.v36 Runtime Version ARN: arn:aws:lambda:ap-south-1::runtime:188d9ca2e2714ff5637bd2bb...

2024-10-11T05:23:33.568Z

START RequestId: 4662c213-1c33-4099-a4ac-ef71af92f36a Version: \$LATEST

2024-10-11T05:23:33.587Z

END RequestId: 4662c213-1c33-4099-a4ac-ef71af92f36a

2024-10-11T05:23:33.587Z

REPORT RequestId: 4662c213-1c33-4099-a4ac-ef71af92f36a Duration: 1.93 ms Billed Duration: 2 ms Memory Size: 128 MB Max Memor...

2024-10-11T05:23:55.230Z

START RequestId: fb1457e5-f5cd-4787-bc2b-141c111b7271 Version: \$LATEST

2024-10-11T05:23:55.247Z

END RequestId: fb1457e5-f5cd-4787-bc2b-141c111b7271

2024-10-11T05:23:55.247Z

REPORT RequestId: fb1457e5-f5cd-4787-bc2b-141c111b7271 Duration: 1.55 ms Billed Duration: 2 ms Memory Size: 128 MB Max Memor...

2024-10-11T05:25:23.104Z

START RequestId: 1b1bb172-9698-4cf7-912b-d7f9d38c7748 Version: \$LATEST

2024-10-11T05:25:23.106Z

END RequestId: 1b1bb172-9698-4cf7-912b-d7f9d38c7748

2024-10-11T05:25:23.106Z

REPORT RequestId: 1b1bb172-9698-4cf7-912b-d7f9d38c7748 Duration: 1.63 ms Billed Duration: 2 ms Memory Size: 128 MB Max Memor...

No newer events at this moment.

CloudShell

Feedback

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Conclusion: Thus, we have created a Lambda function which logs “An Image has been added” once you add an object to a specific bucket in S3.