ASSIGNMENT 9

AIM: To understand Lambda Function and create a Lambda function which will log "An Image has been added" once you add an object to a specific bucket in S3.

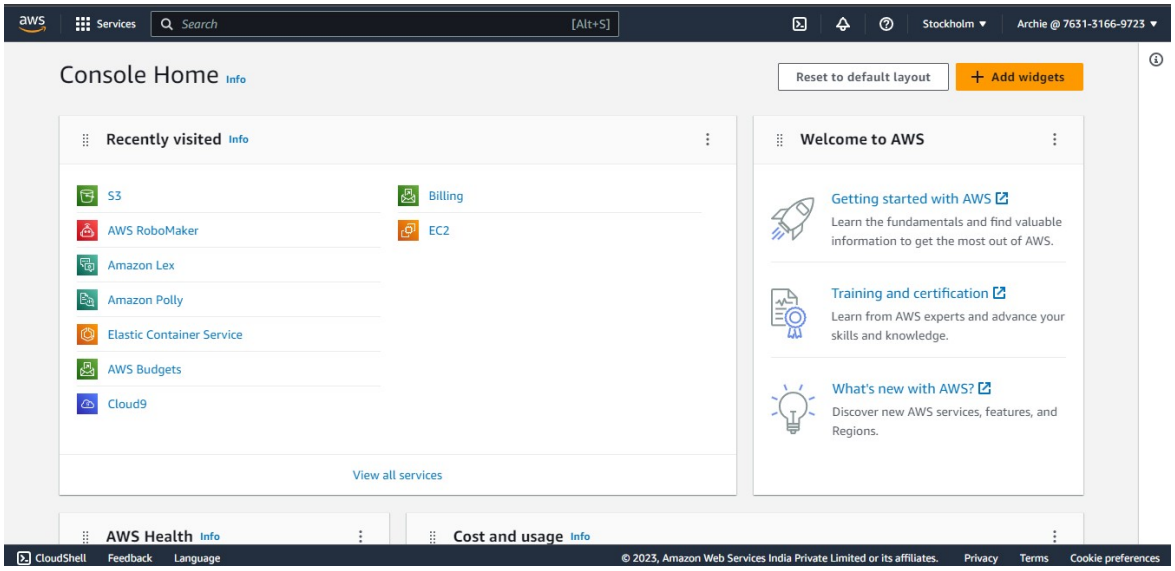
LO MAPPED: LO1, LO5

THEORY:

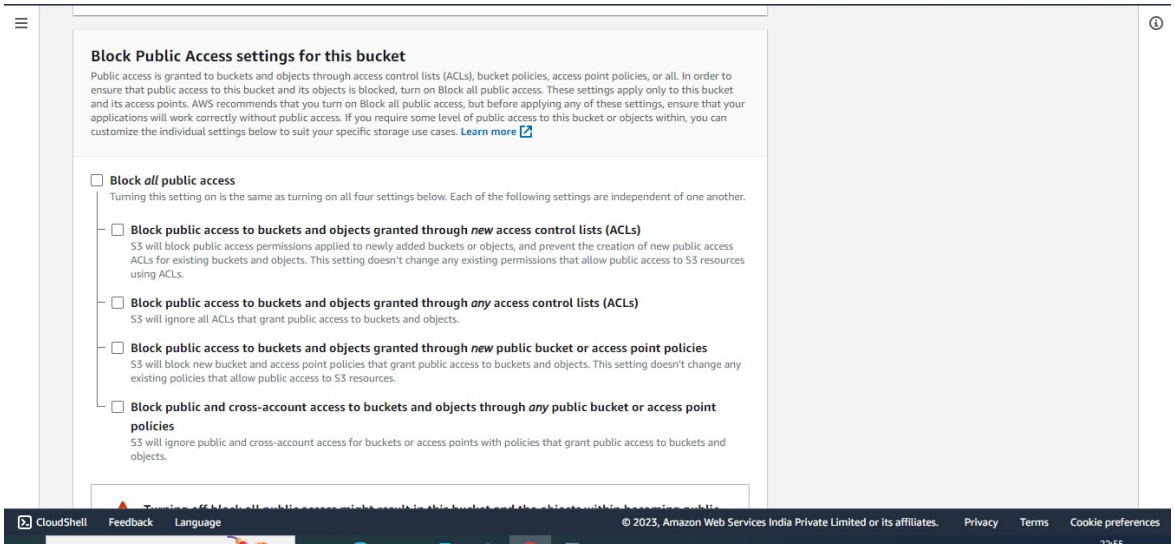
You can use Lambda to process event notifications from Amazon Simple Storage Service. Amazon S3 can send an event to a Lambda function when an object is created or deleted. You configure notification settings on a bucket, and grant Amazon S3 permission to invoke a function on the function's resource-based permissions policy.

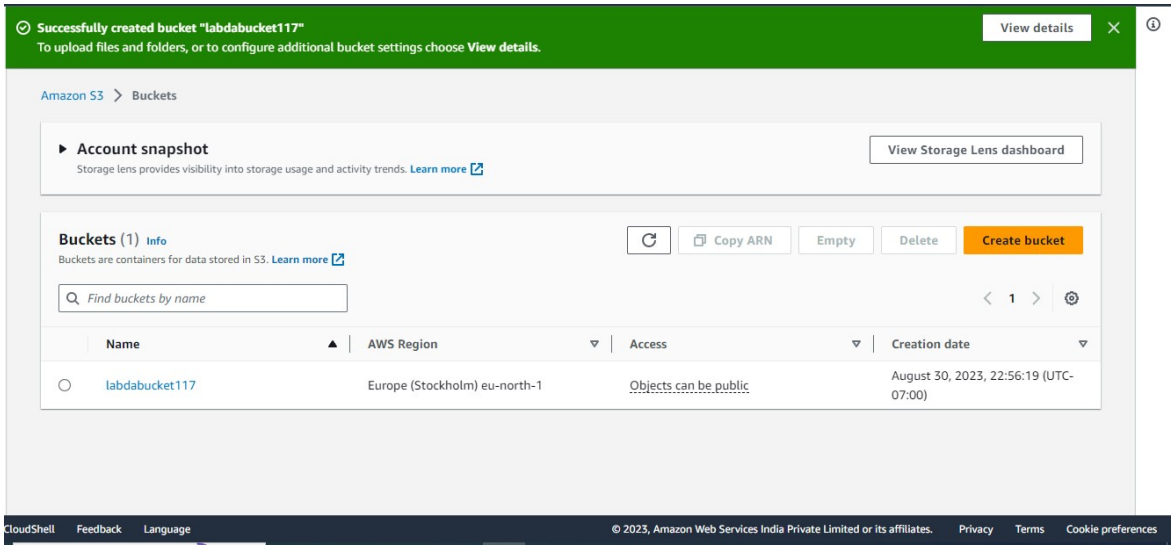
STEPS TO FOLLOW:

1. Log in as IAM User

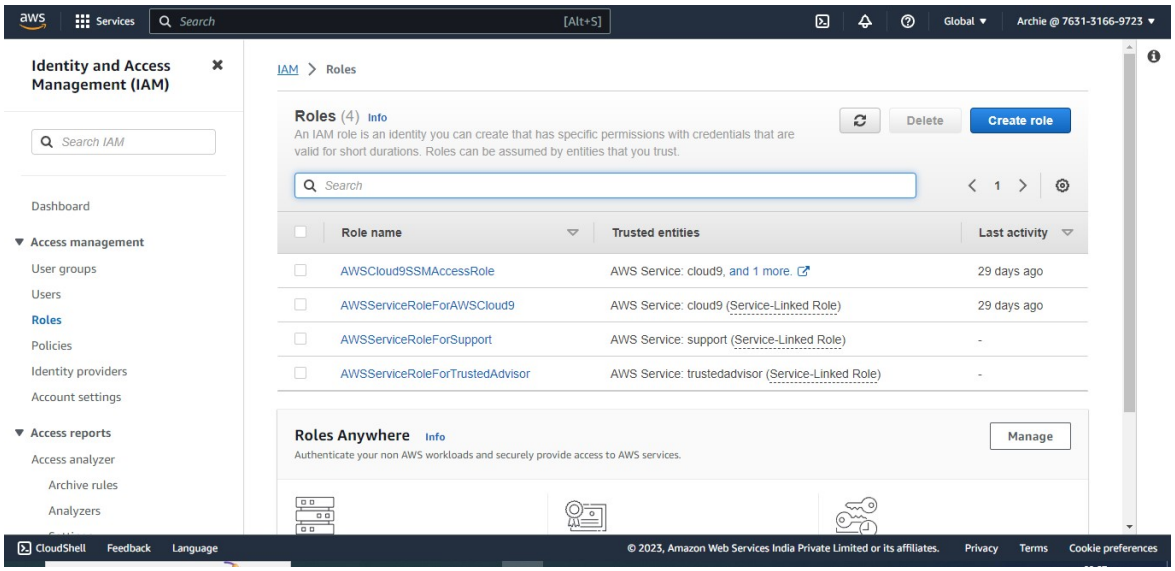


2. Create a S3 bucket and Enable the "Block all public access"

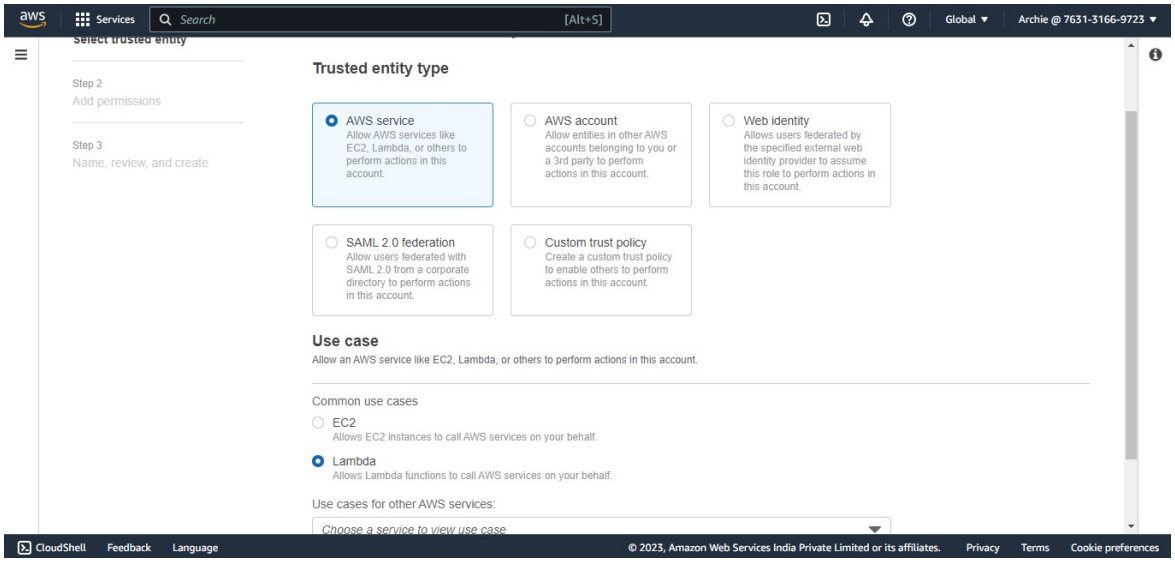




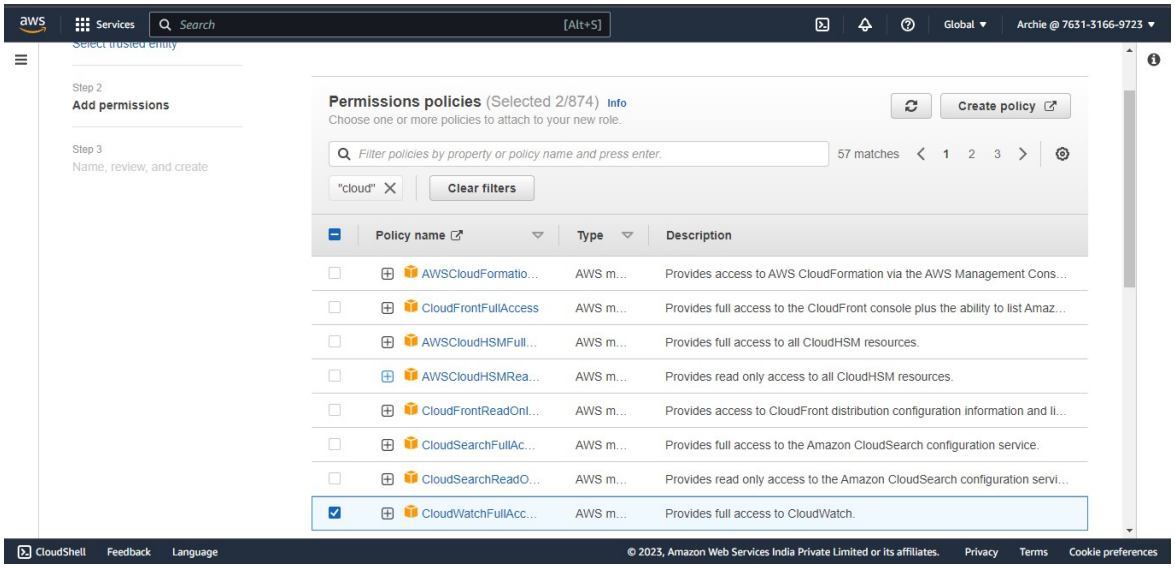
3. Search IAM on the console and go to "Roles". Click on Create Roles

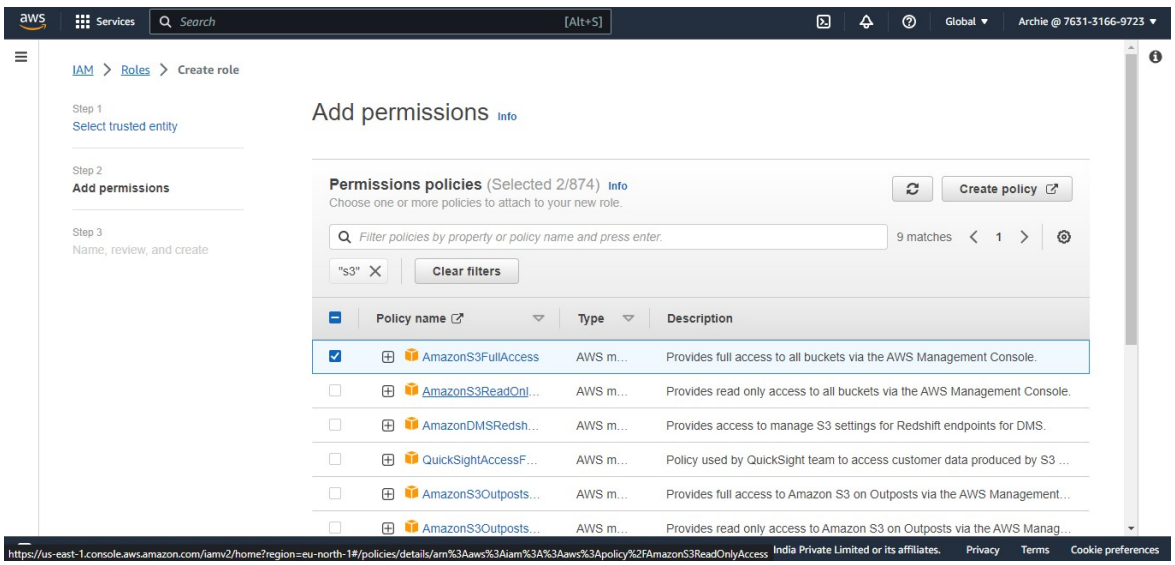


4. Select the options of "AWS service" and "lambda"

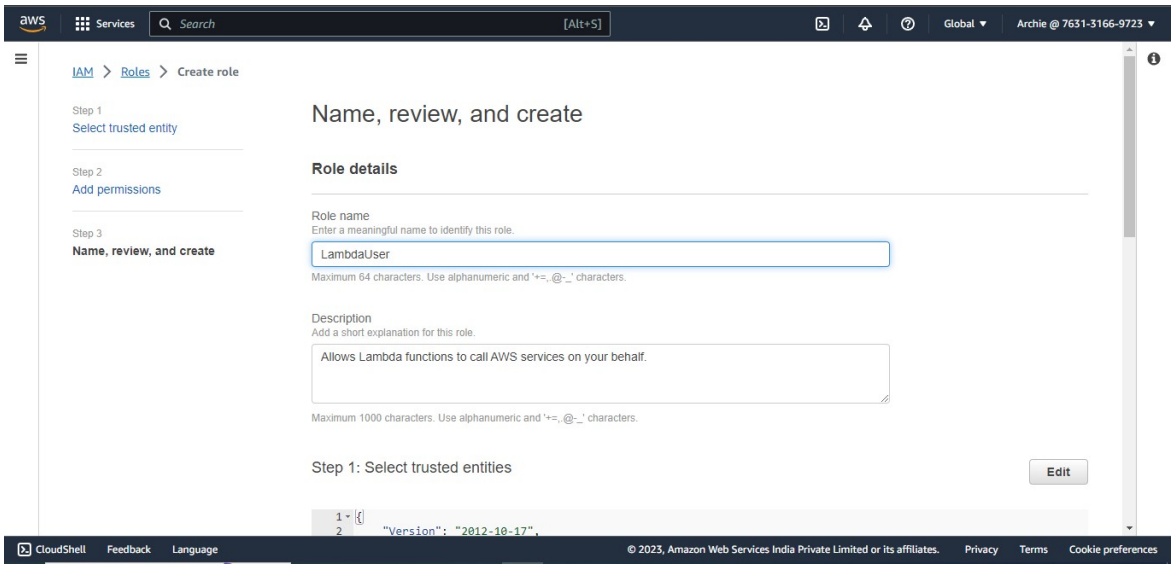


5. Enable the "CloudWatchFullAccess" and "AmazonS3FullAccess"

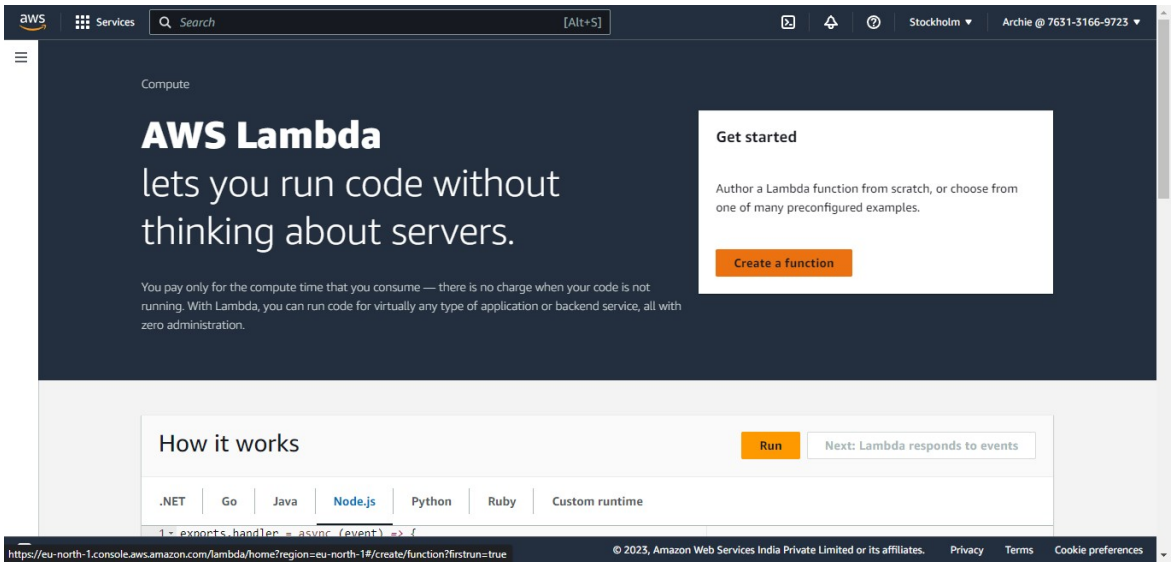




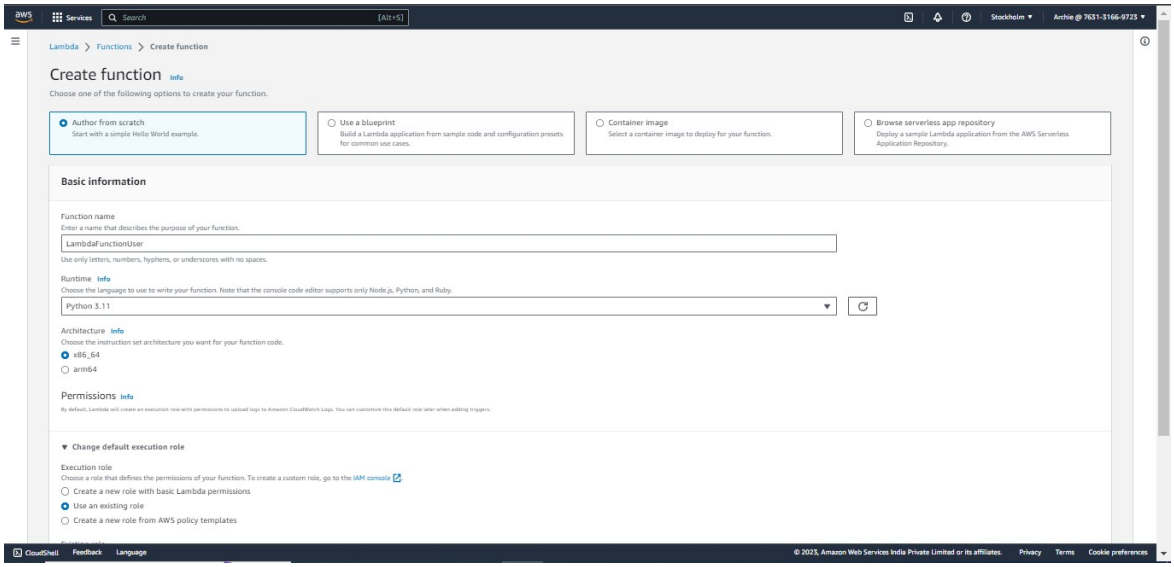
6. Click on Create Role and you will be redirected to this dashboard. Give the Role a Name and Click on Done.



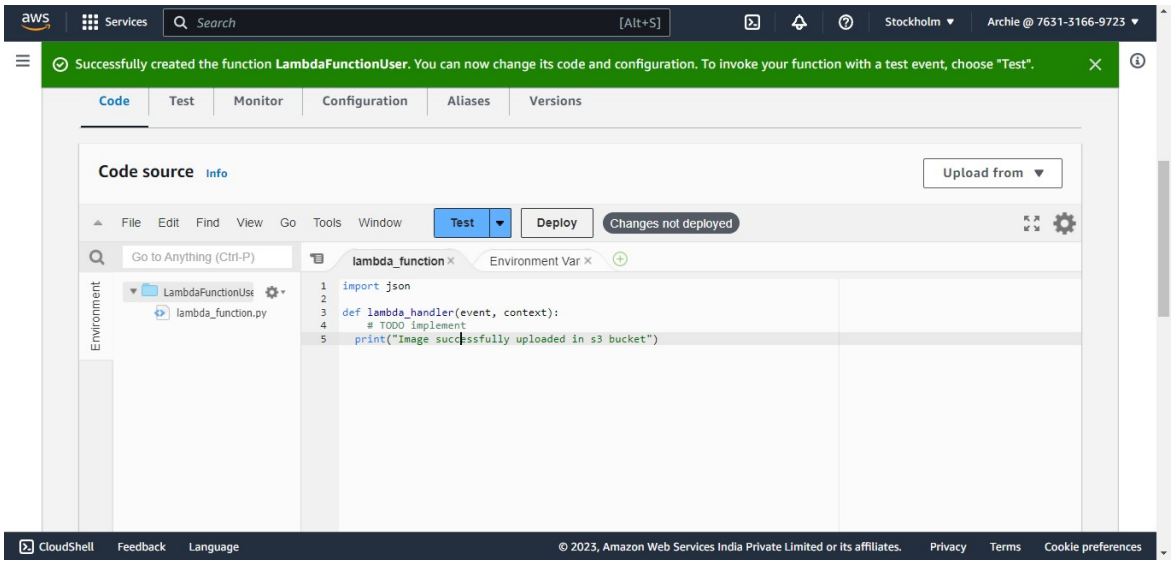
7. Search for Lambda in the console and click on Create Function.



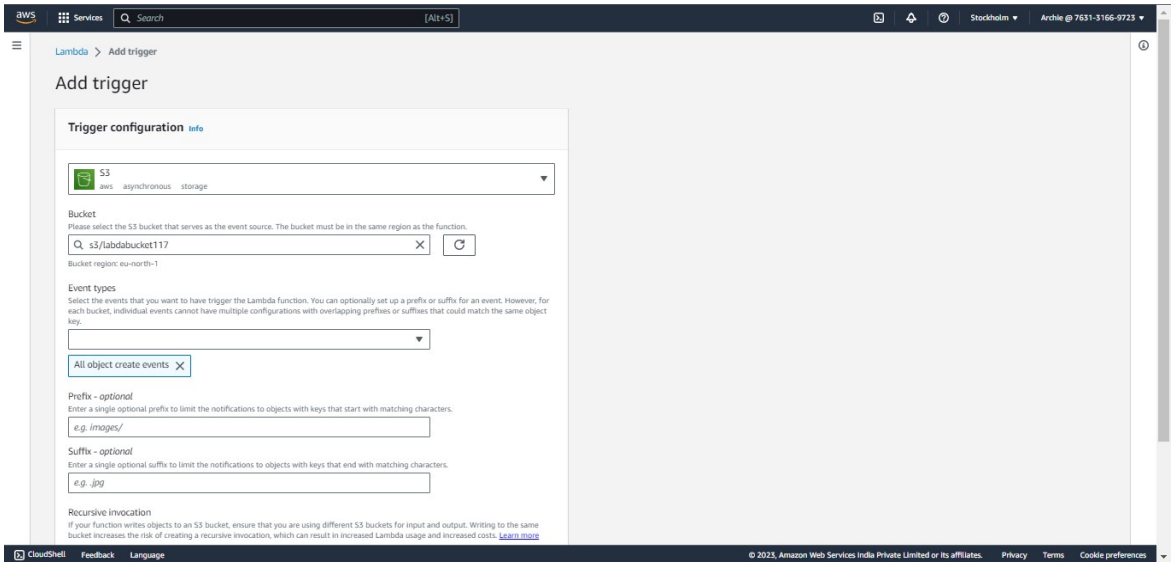
8. Change the settings of the Lambda Function.



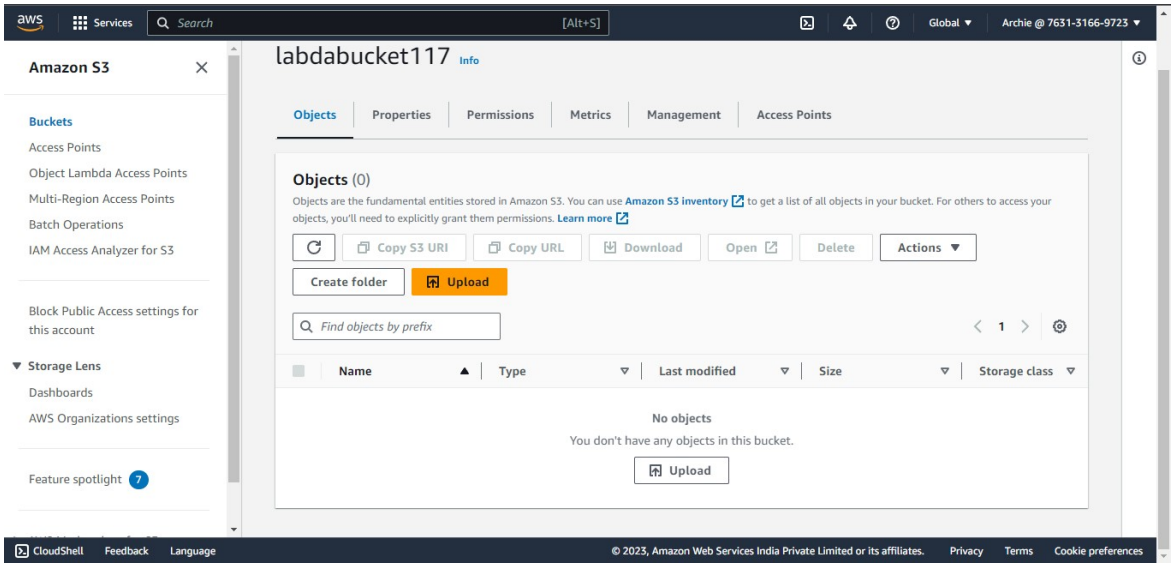
9. Add the python code and click on deploy to save the changes.

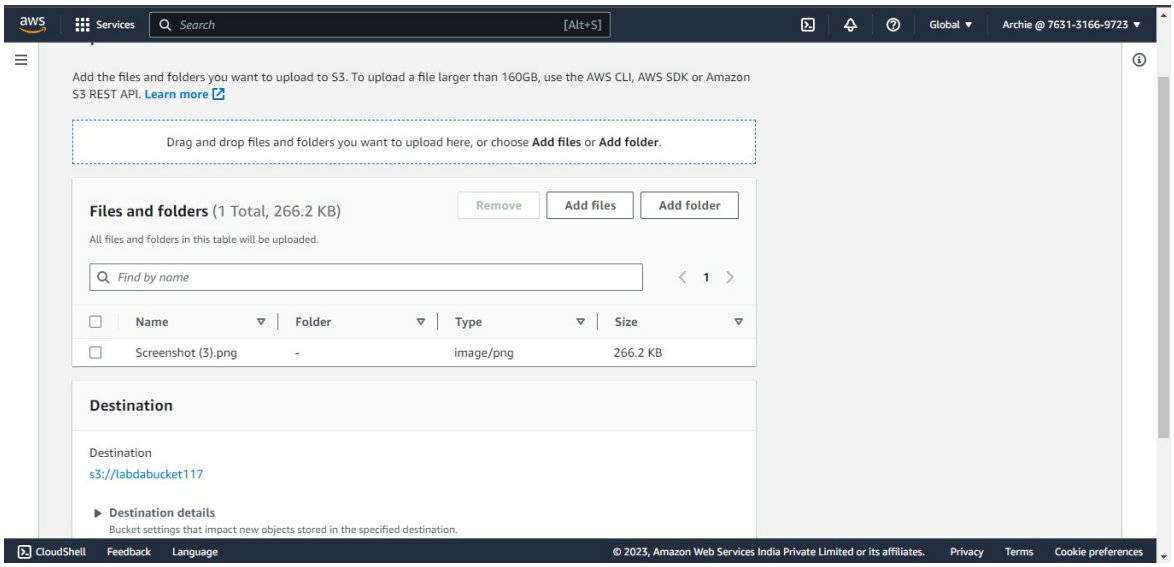


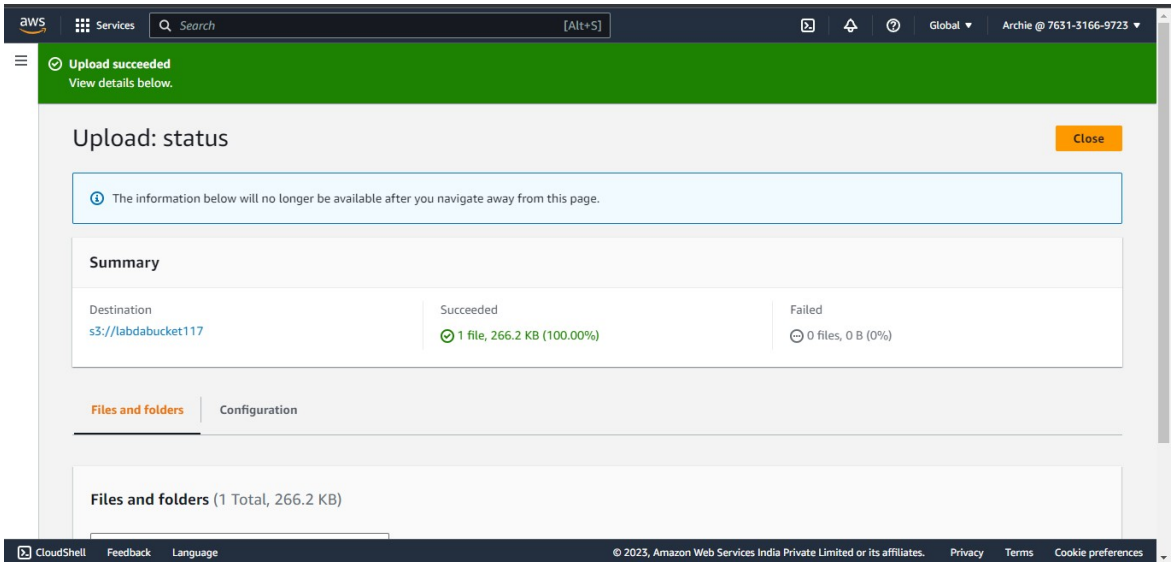
10. Scroll above and click on ADD TRIGGER. Select the following options and click on Done.



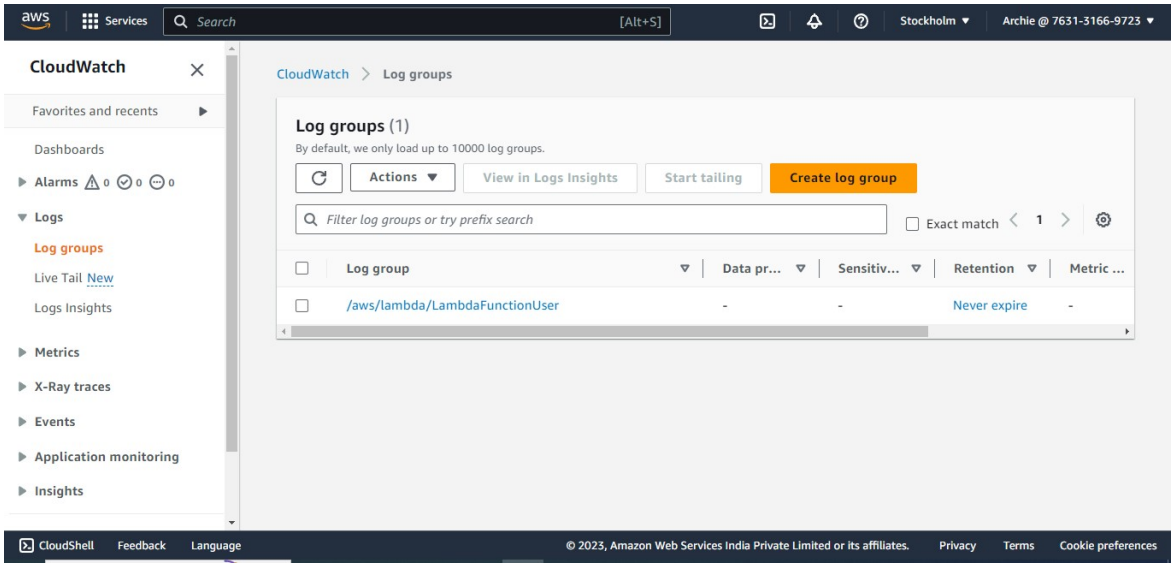
11. Go to S3 bucket and click on Add files. Select a image and click on Upload.



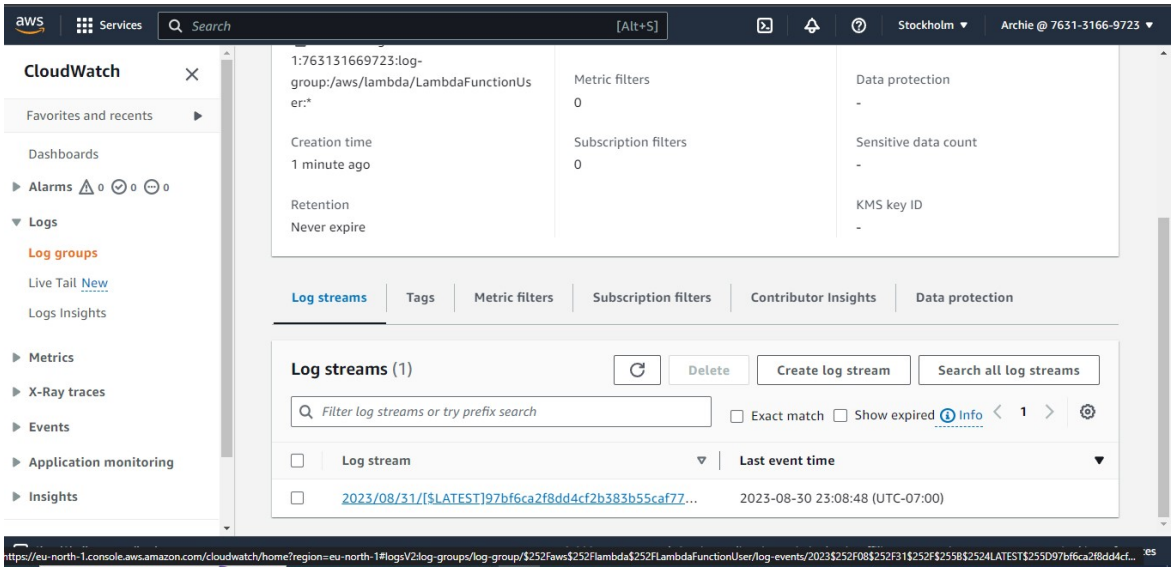


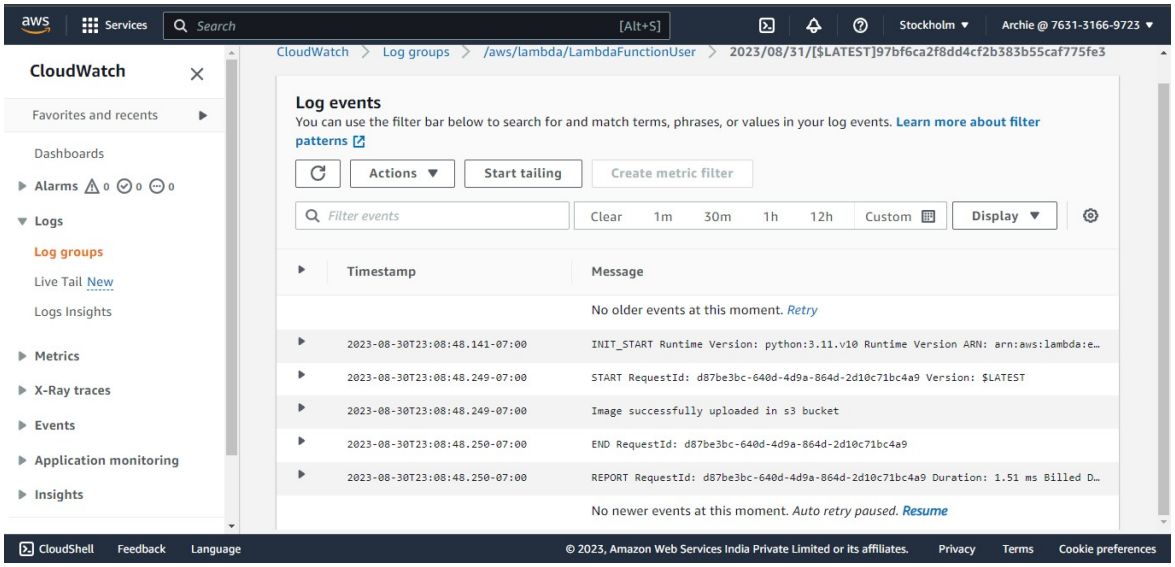


12. Search CloudWatch and go to Log groups. Select the existing Log Group.



13. Click on the link provided and then you will see the message displayed.





CONCLUSION: In this assignment, we learnt how to create a Lambda function which will log "An Image has been added" once you add an object to a specific bucket in S3.