Name: Vignesh Pai
Roll no: 72
Batch: T21

ASSIGNMENT 10

AIM: To understand AWS Lambda Functions and create a Lambda function using Python to log "An Image has been added" message, once a file is added to an S3 Bucket.

THEORY:

AWS Lambda is a serverless computing service provided by Amazon Web Services (AWS). It allows you to run code in response to events without having to provision or manage servers. AWS Lambda functions are small, self-contained units of code that can be executed in the cloud, triggered by various AWS services or external events.

Key features of AWS Lambda functions include:

1. Event-Driven: Lambda functions are designed to be event-driven. They can be triggered by variousevents such as changes to data in Amazon S3, updates to a DynamoDB table, HTTP requests through Amazon API Gateway, and more.

2. Scaling: AWS Lambda automatically scales your functions in response to incoming traffic. Youdon't need to worry about server provisioning or capacity planning.

3. Pay-as-You-Go: With Lambda, you pay only for the compute time consumed during functionexecution. There are no upfront costs or infrastructure management fees.

4. Support for Multiple Languages: You can write Lambda functions in various programminglanguages, including Node.js, Python, Java, C#, Ruby, Go, and custom runtimes.

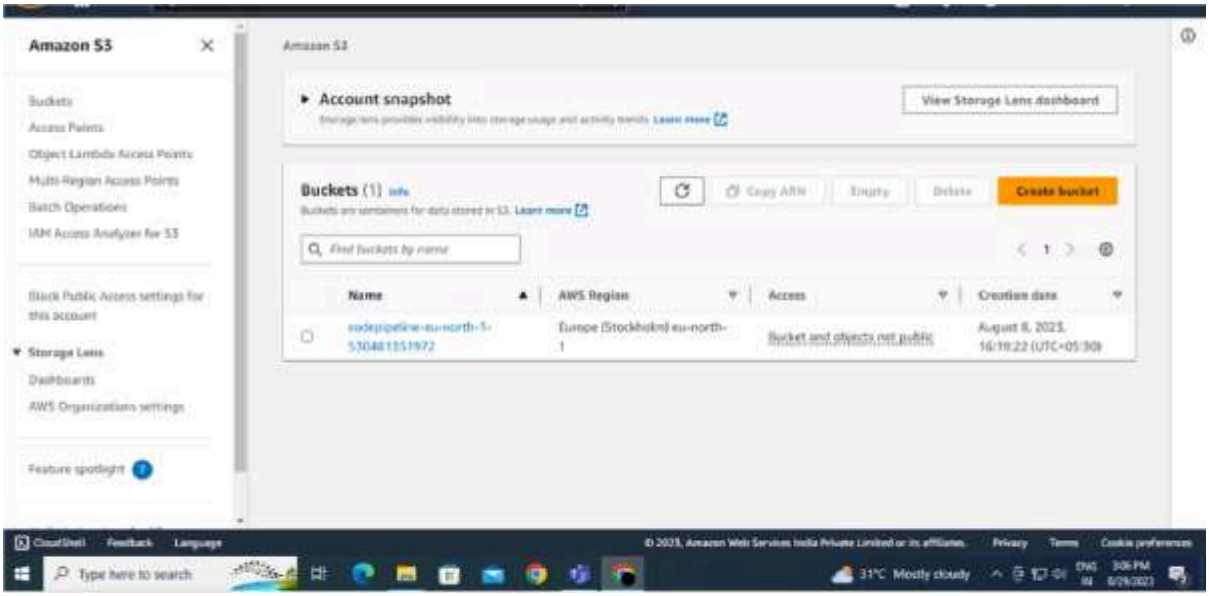
5. Stateless and Isolated: Each Lambda function is stateless and runs in isolation, ensuring that onefunction's execution doesn't affect another. Data can be stored and retrieved using other AWS services like S3 or DynamoDB.

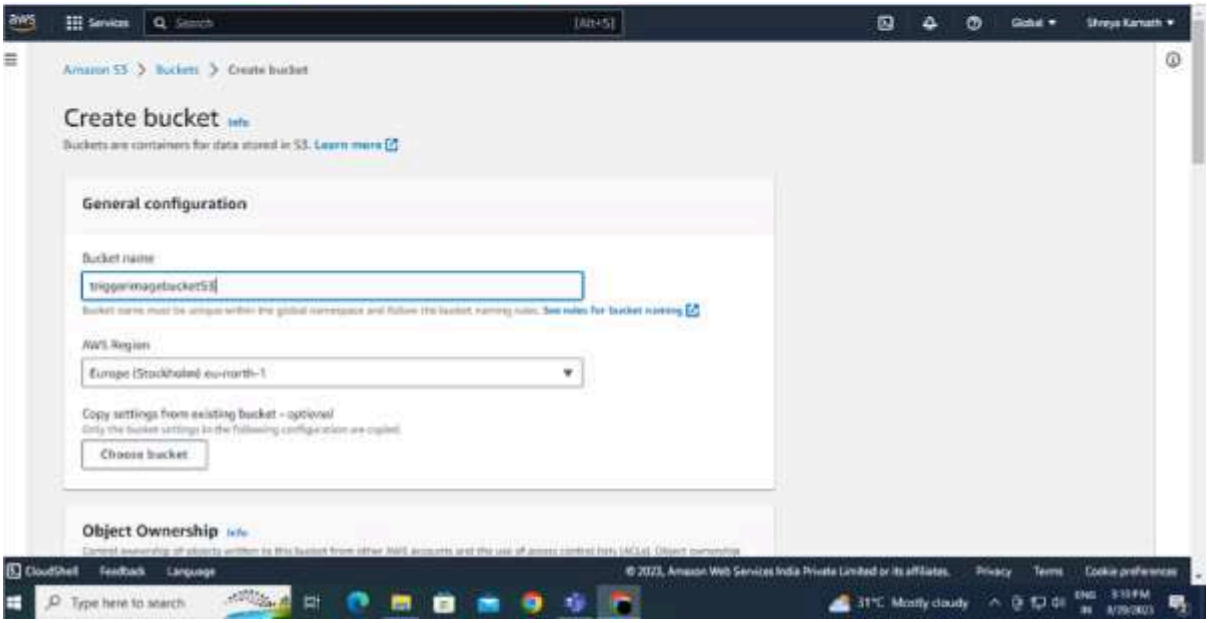
6. Easy Integration: Lambda functions can be easily integrated with other AWS services, creatingserverless architectures and event-driven workflows.

7. Custom Runtimes: You can use custom runtimes to execute functions written in languages notofficially supported by AWS.

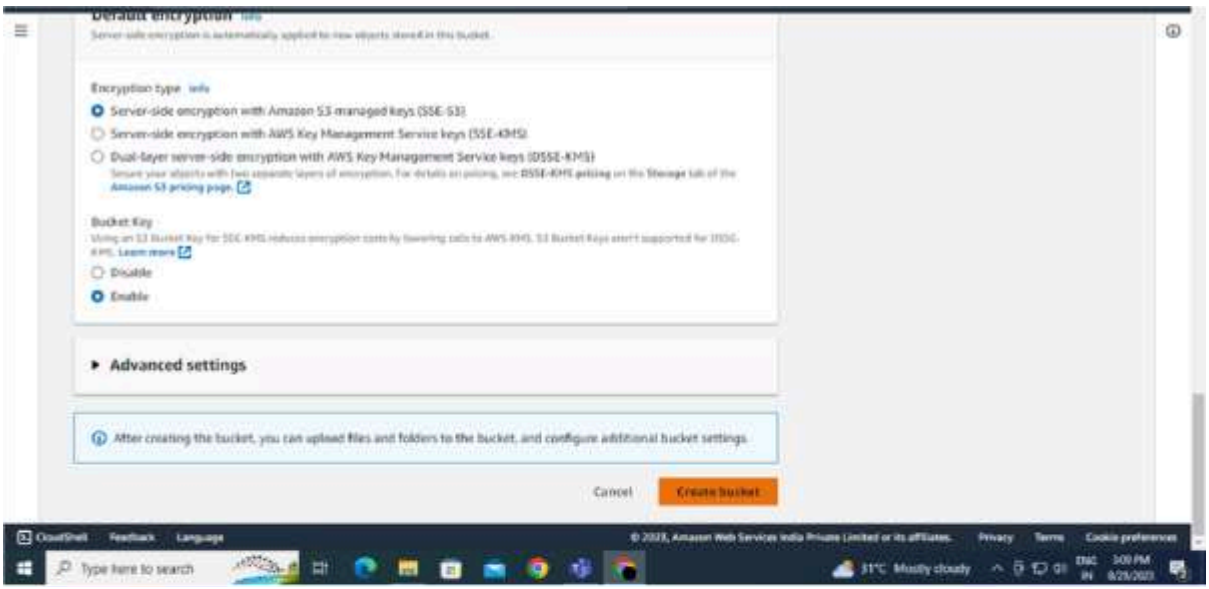
AWS Lambda is a powerful tool for building serverless applications, automating tasks, and responding to events in a highly scalable and cost-effective manner.

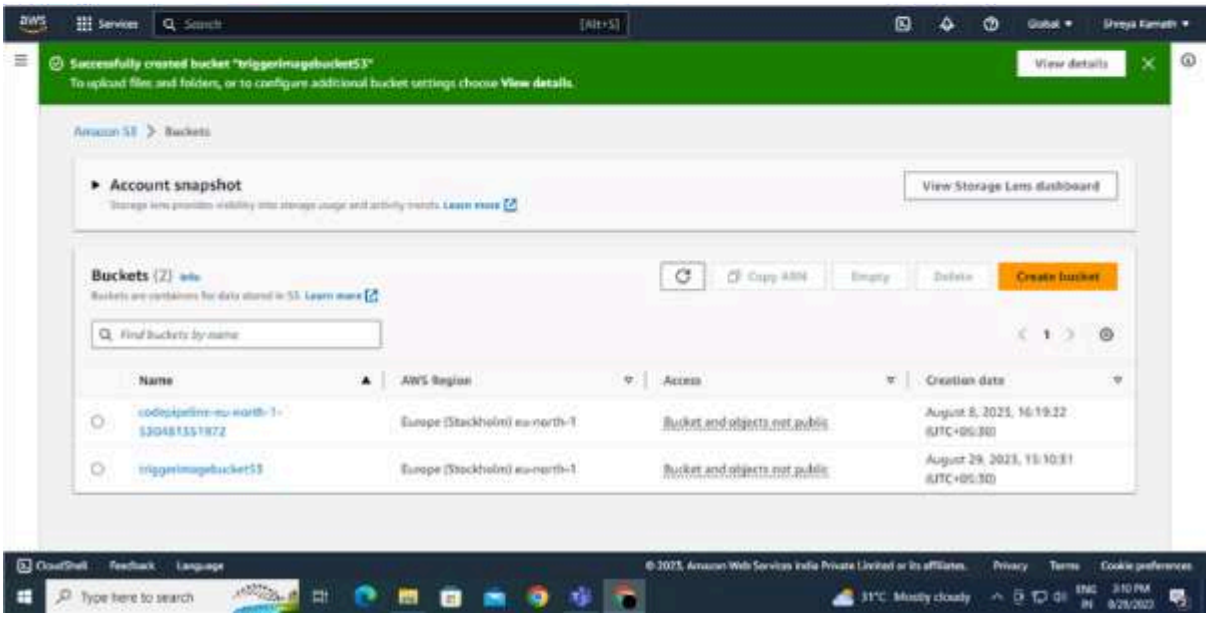
Name: Vignesh Pai
Roll no: 72
Batch: T21





Name: Vignesh Pai
Roll no: 72
Batch: T21





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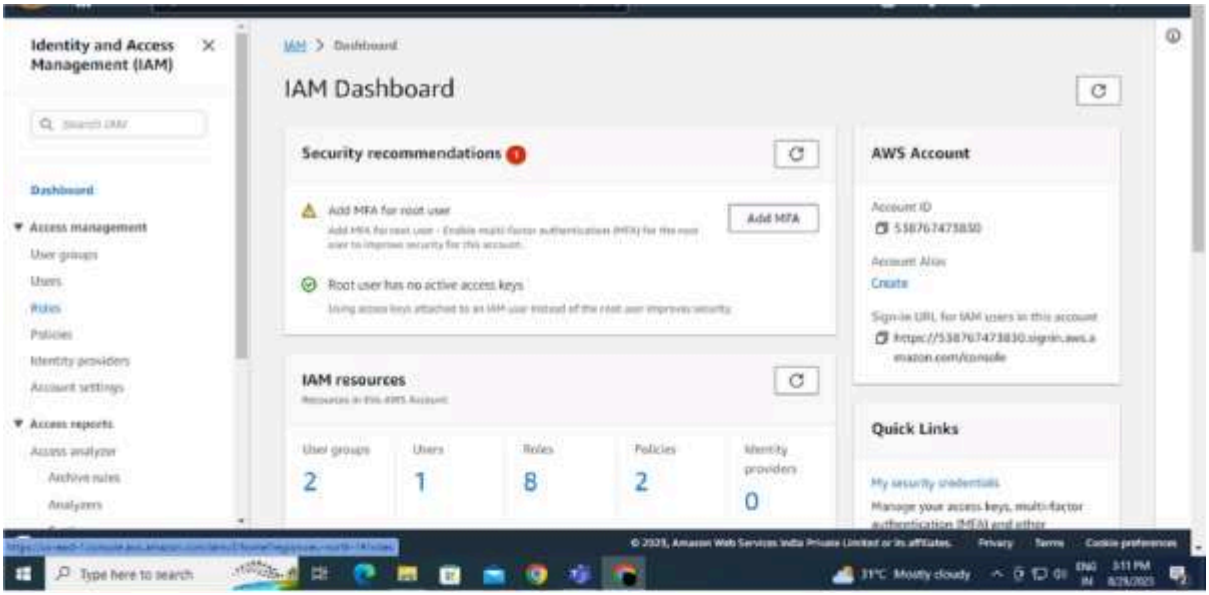
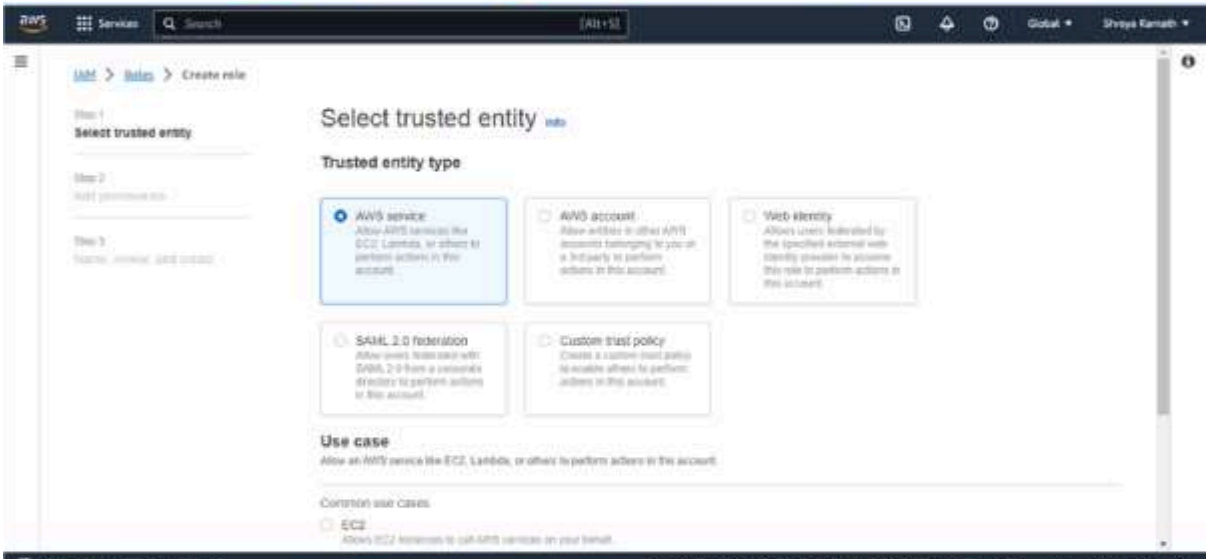
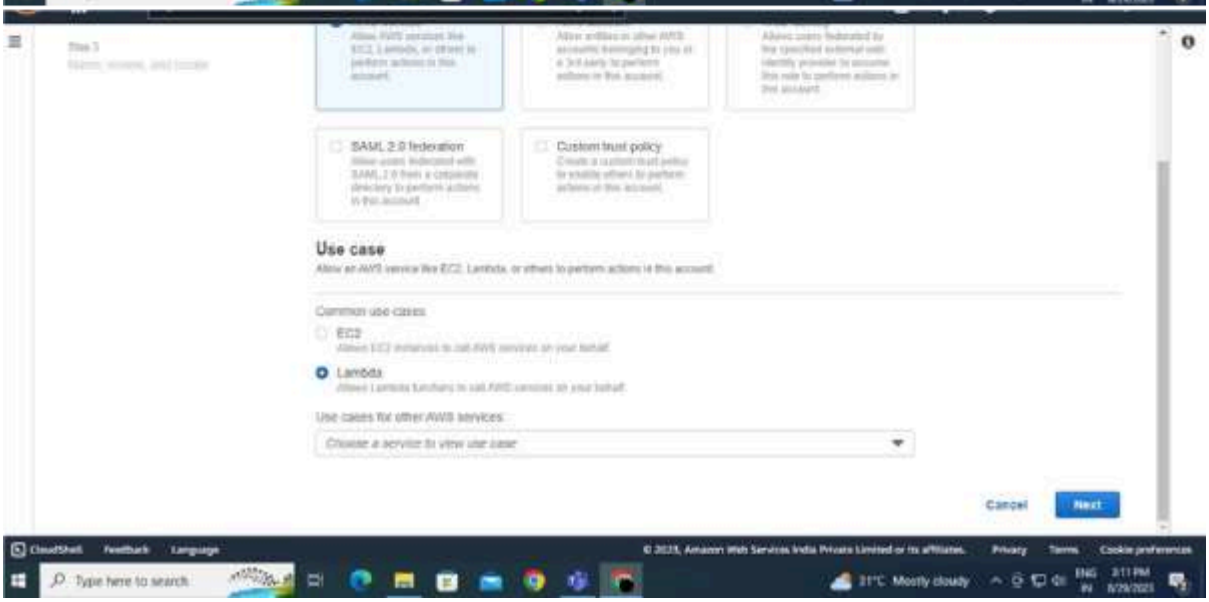
Batch: T21







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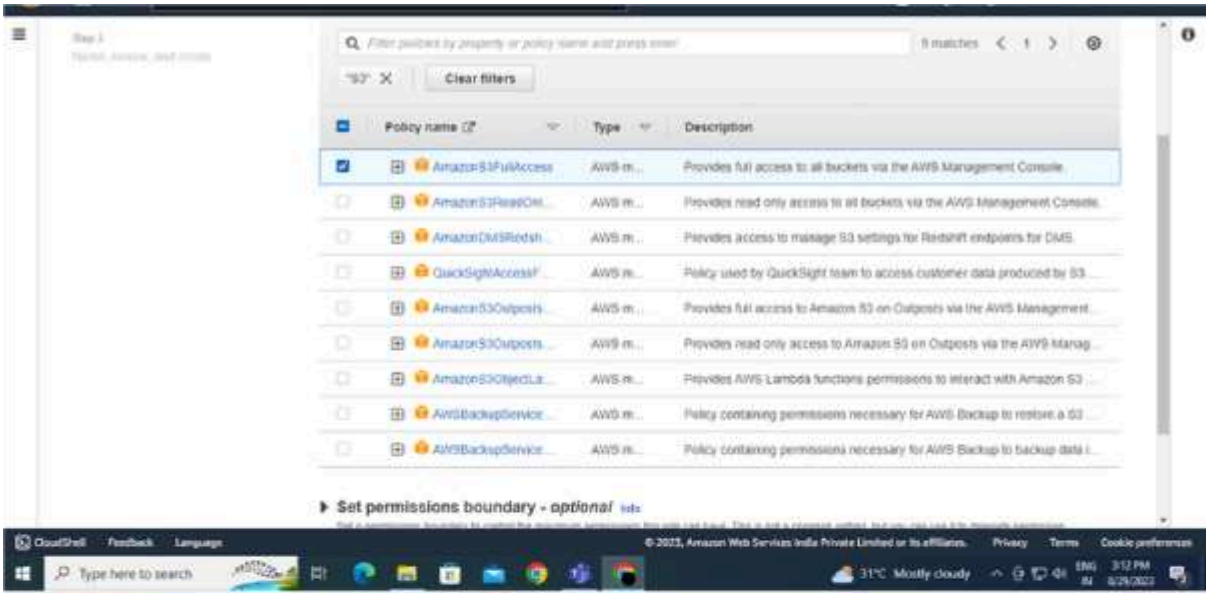

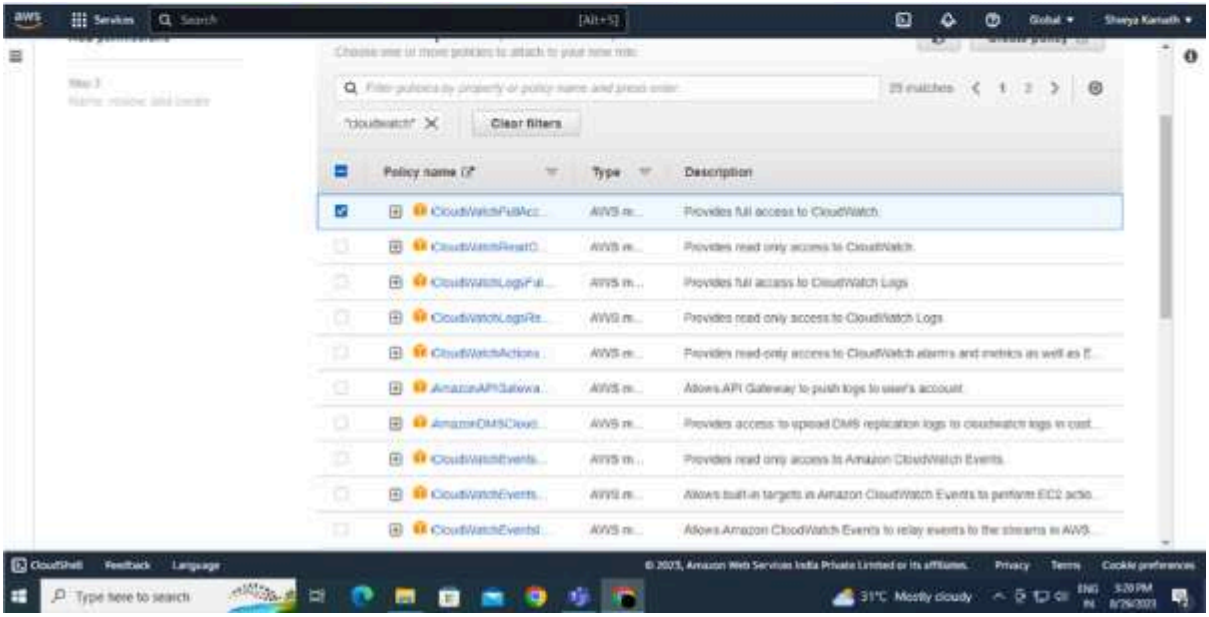

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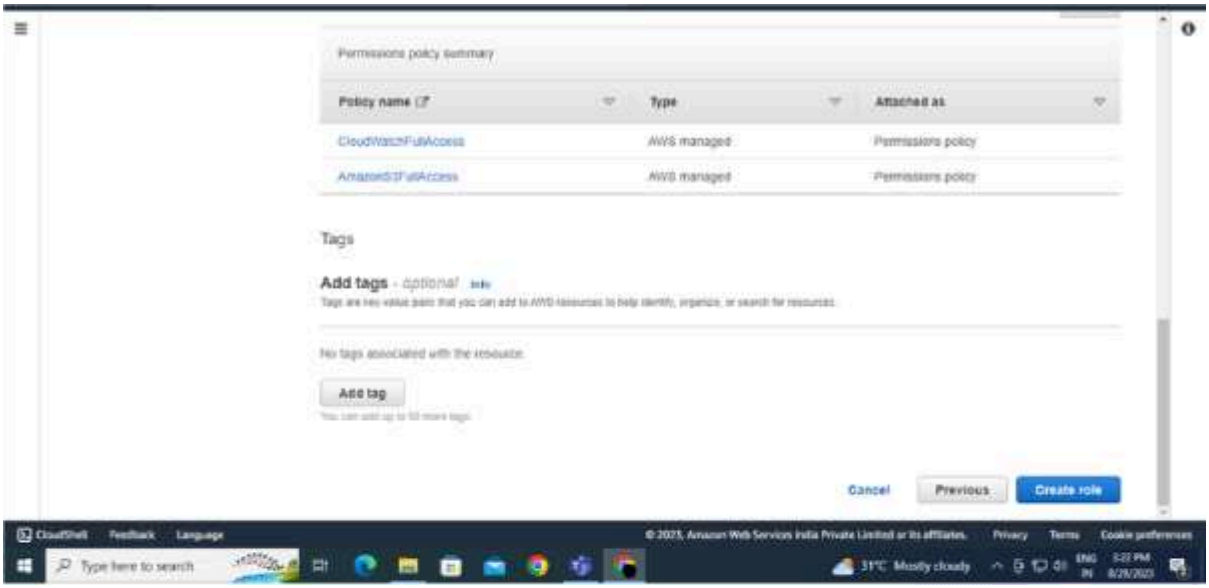

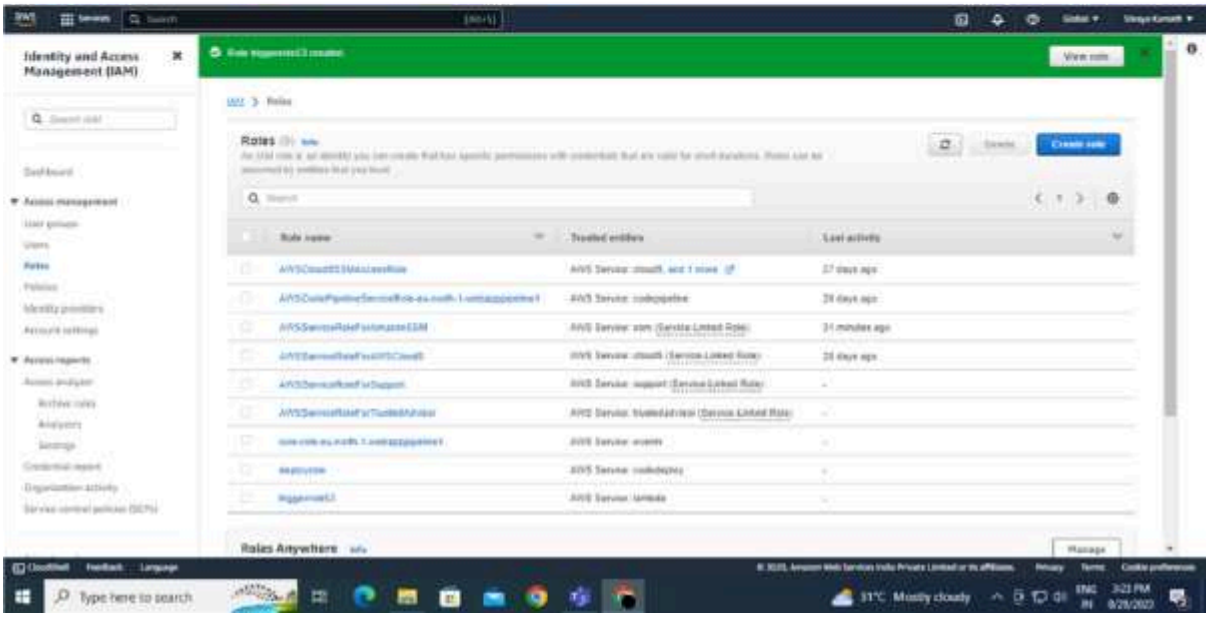

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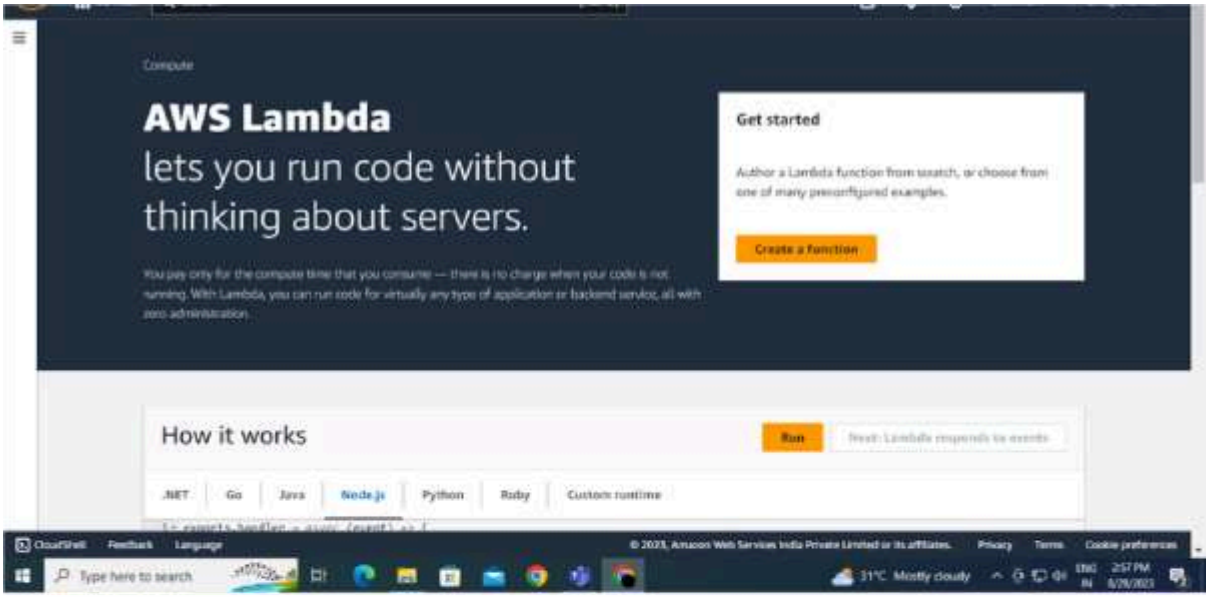

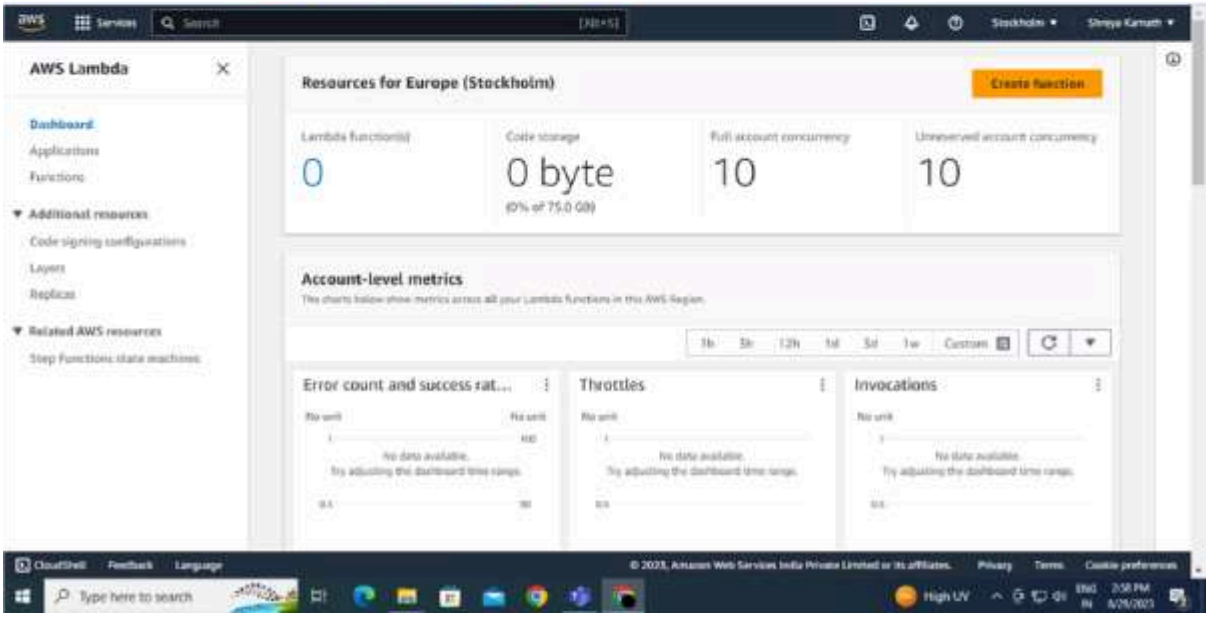

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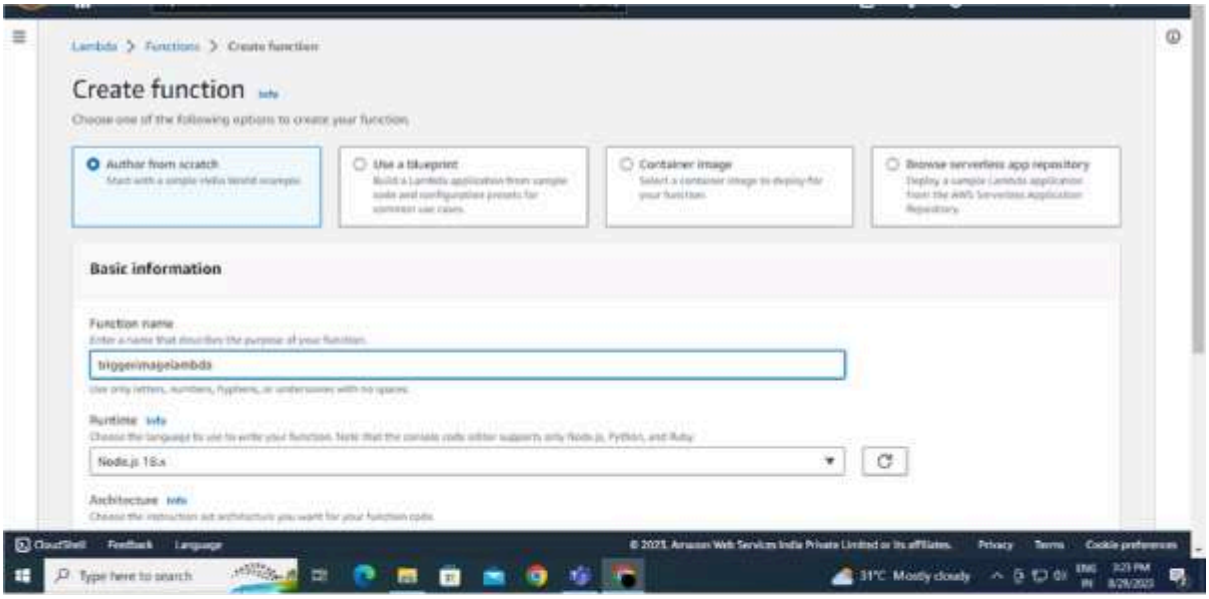

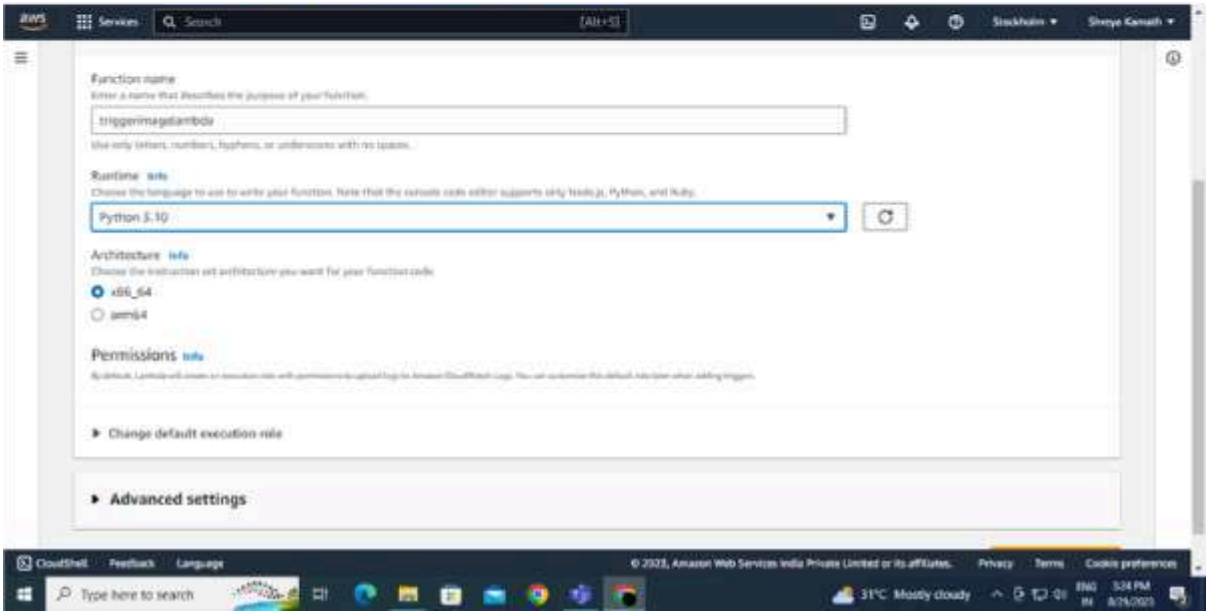

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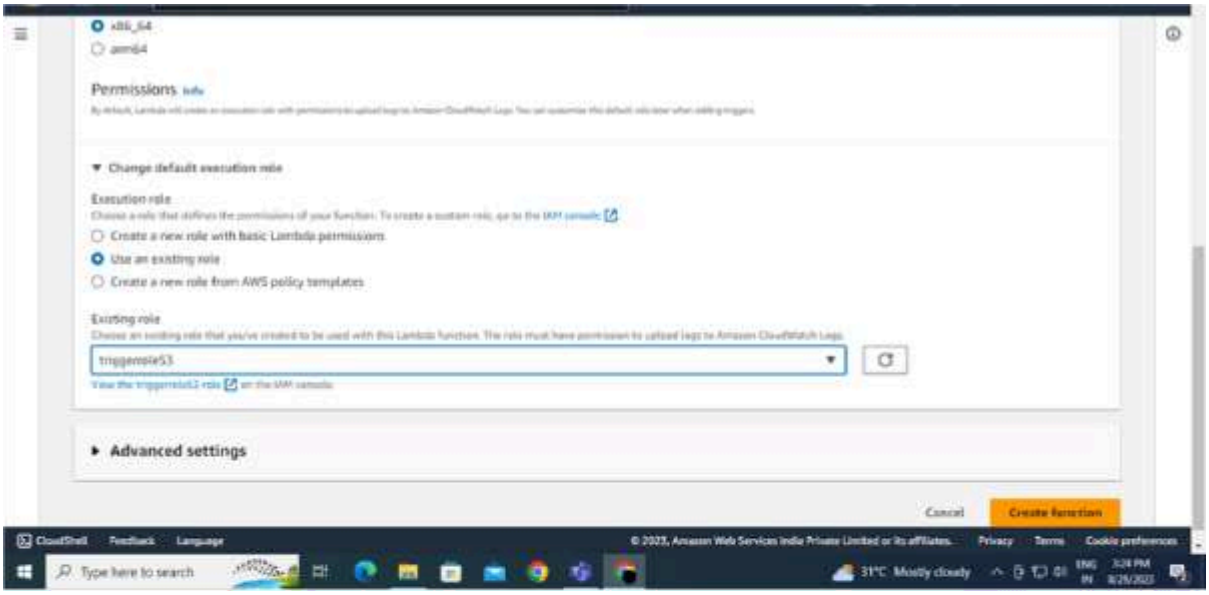

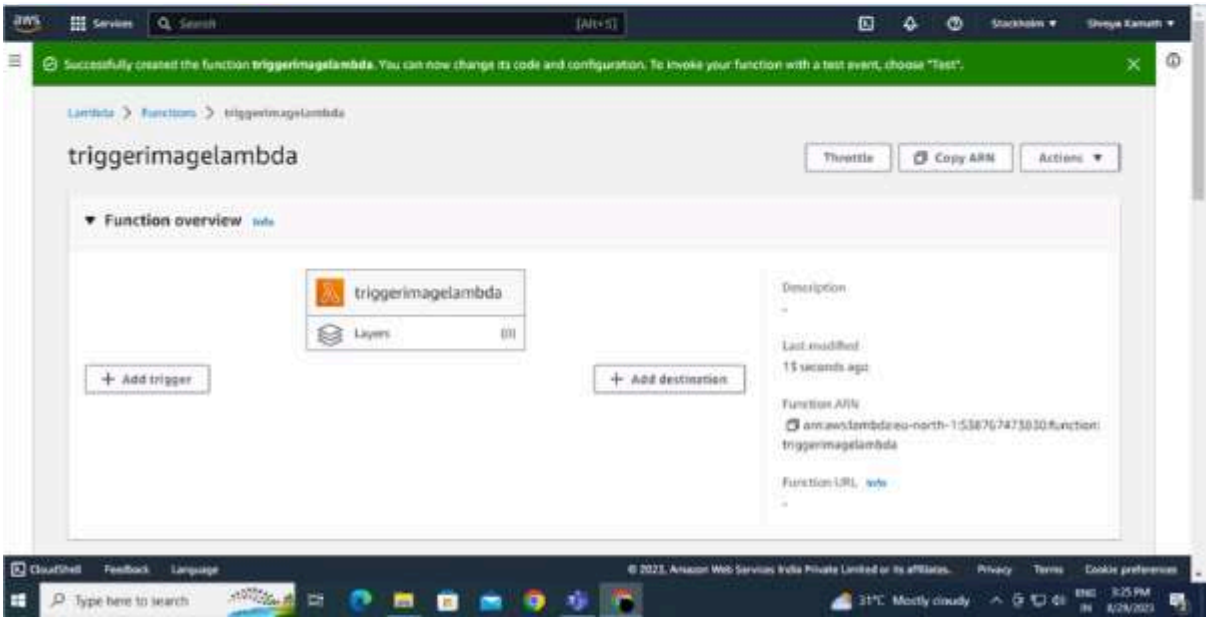

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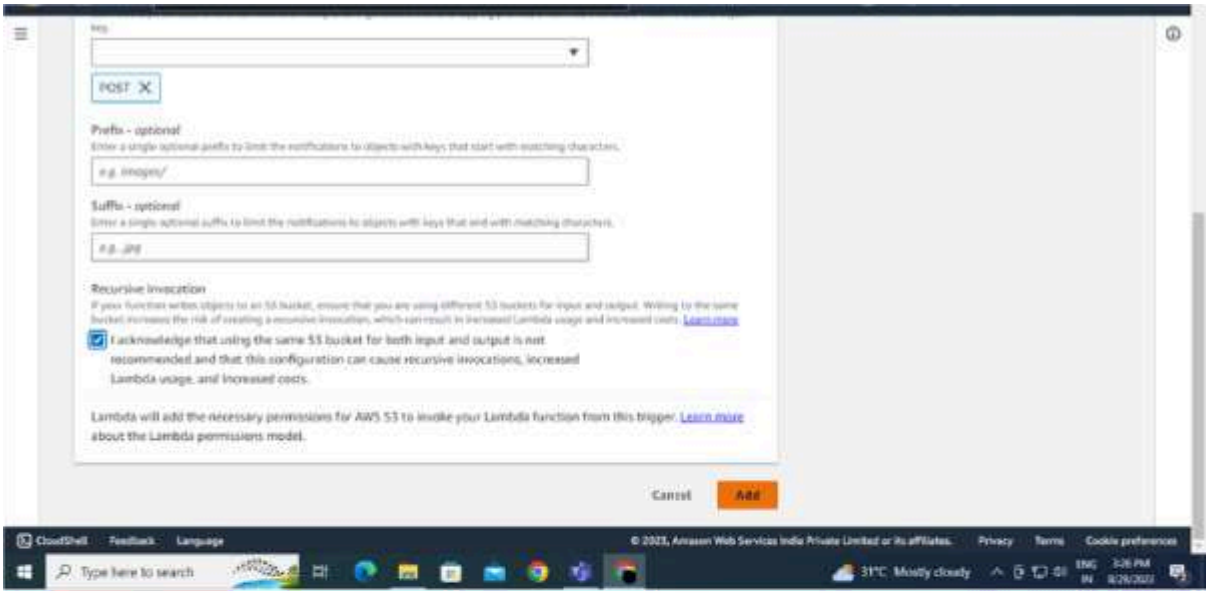

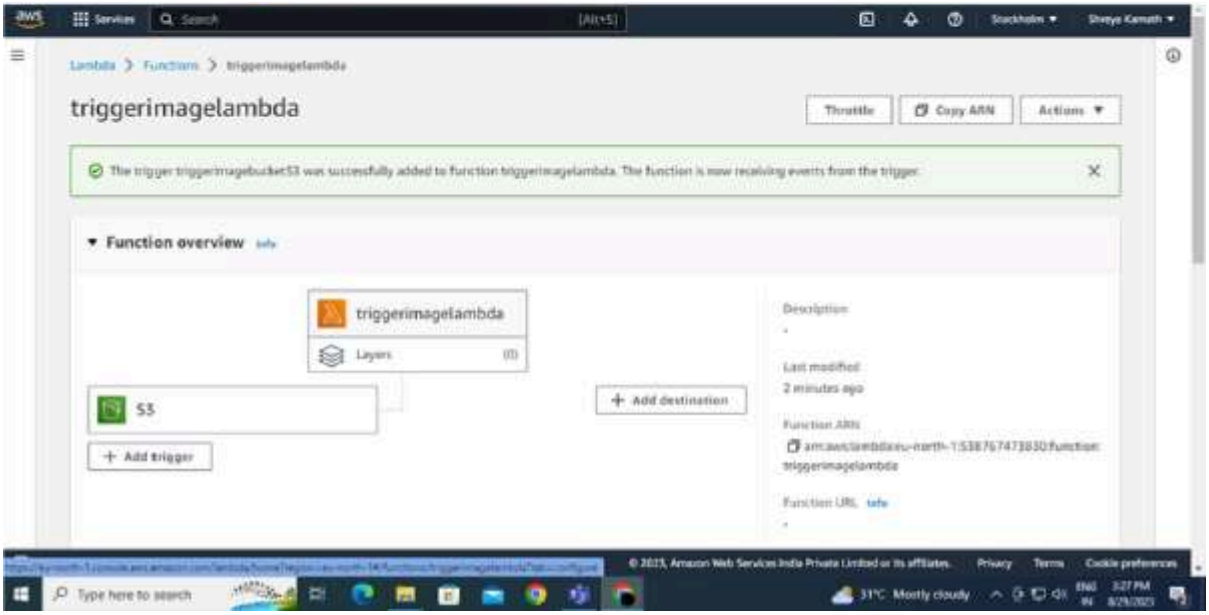

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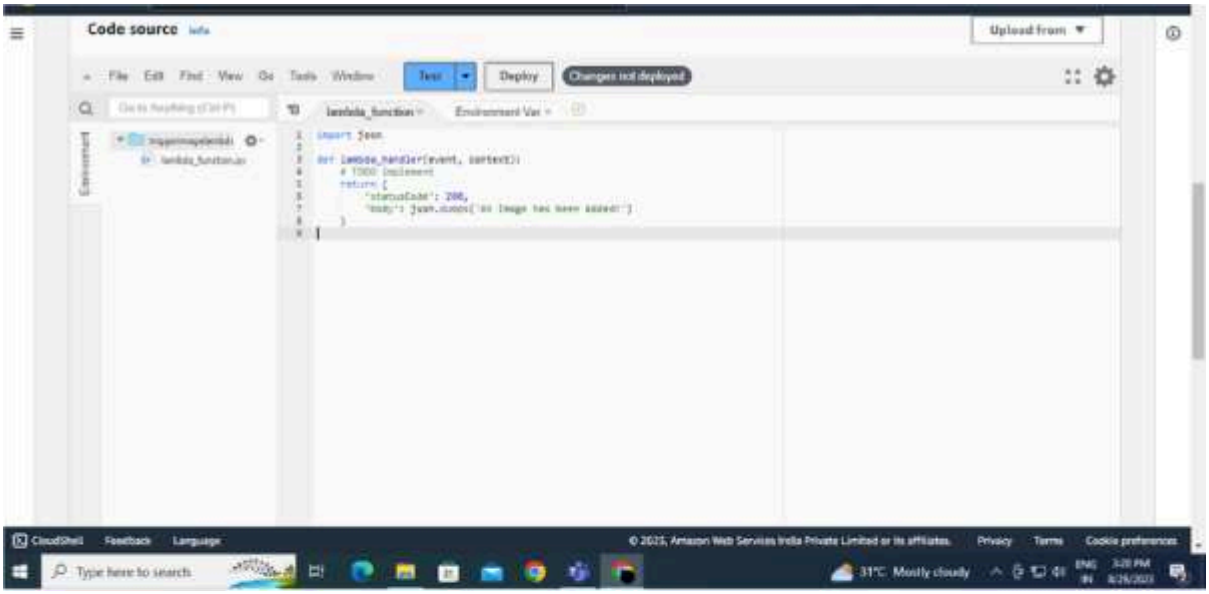

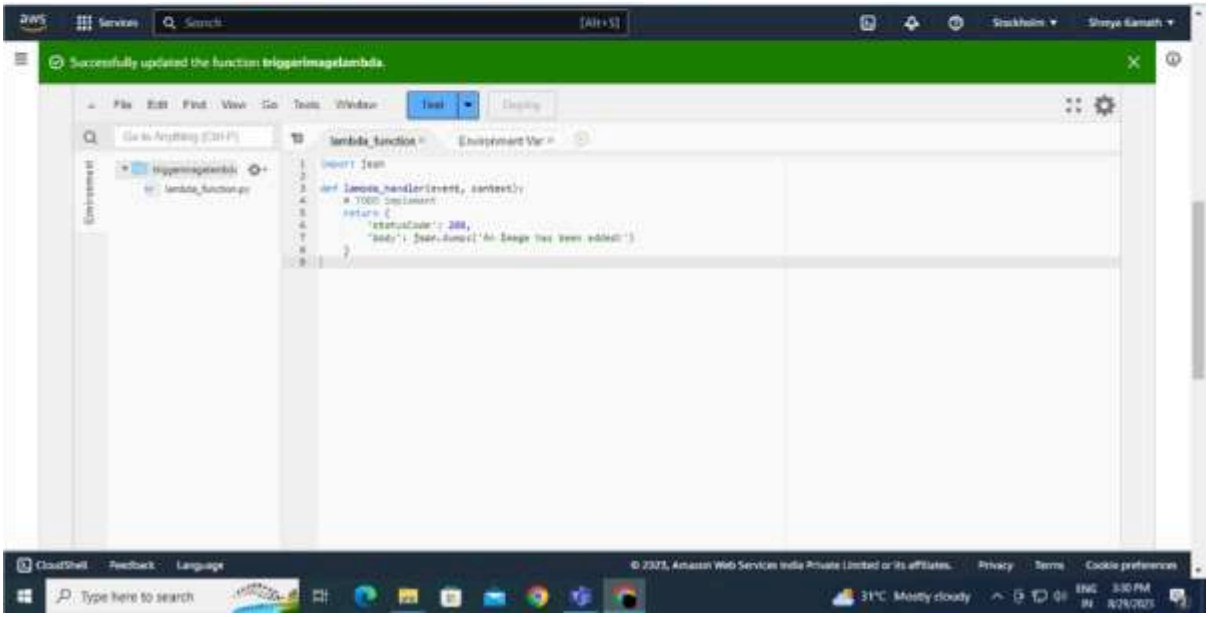

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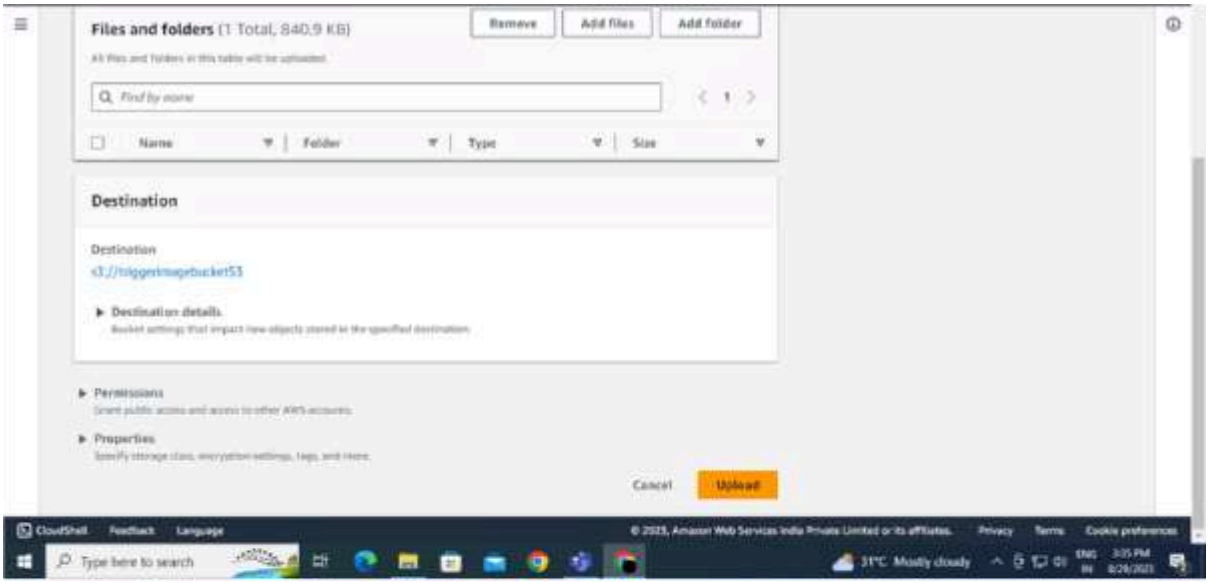
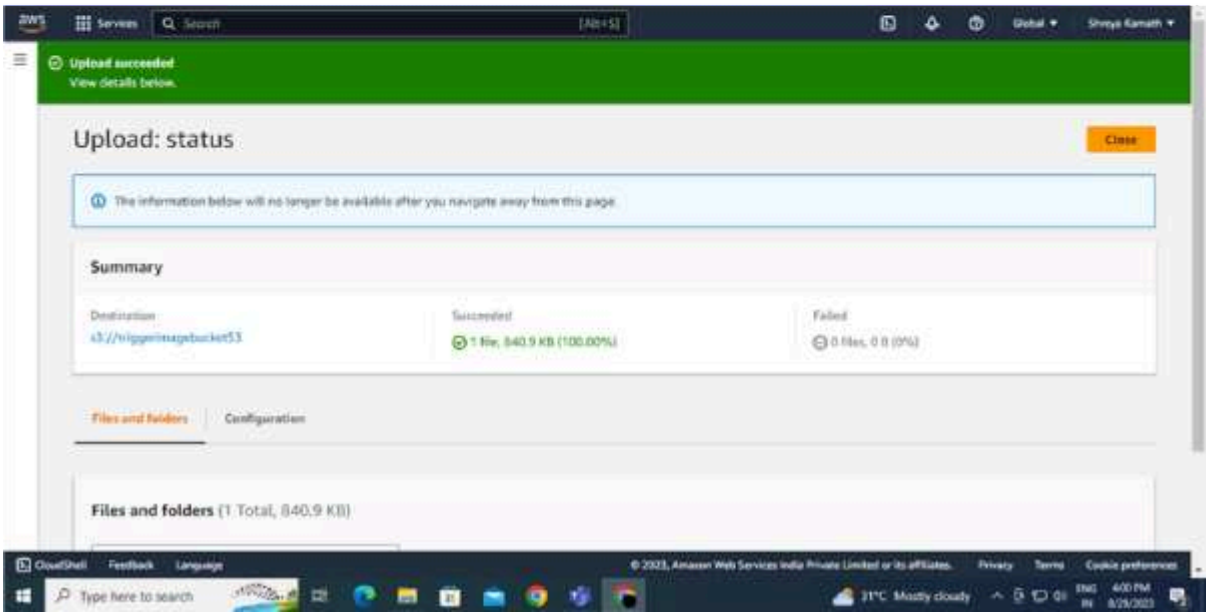
Batch: T21





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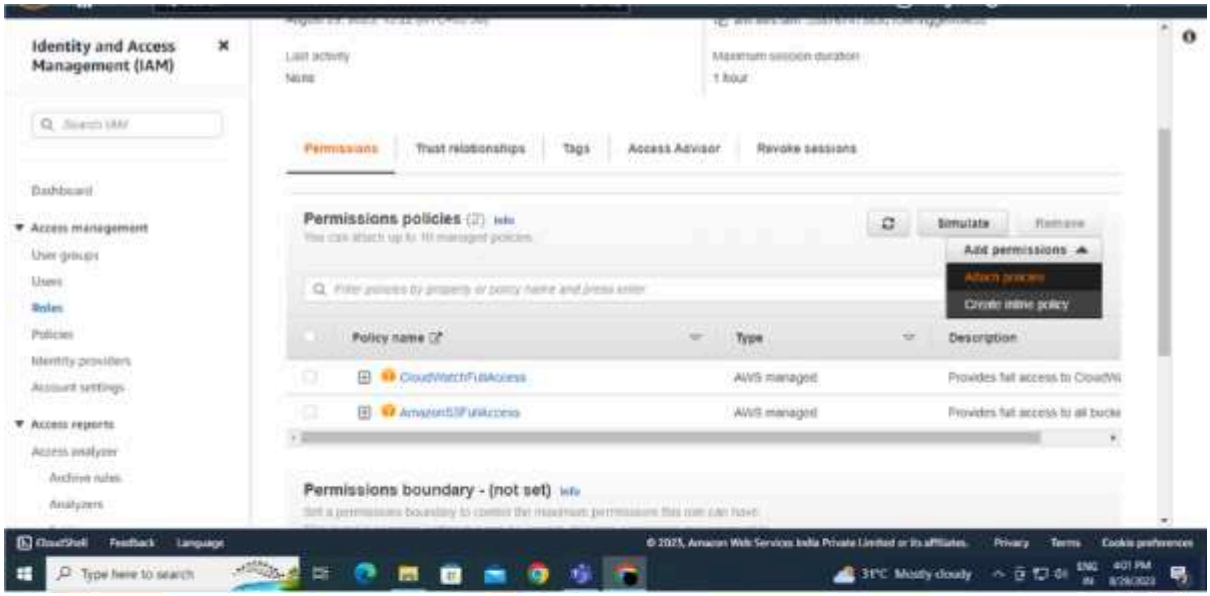

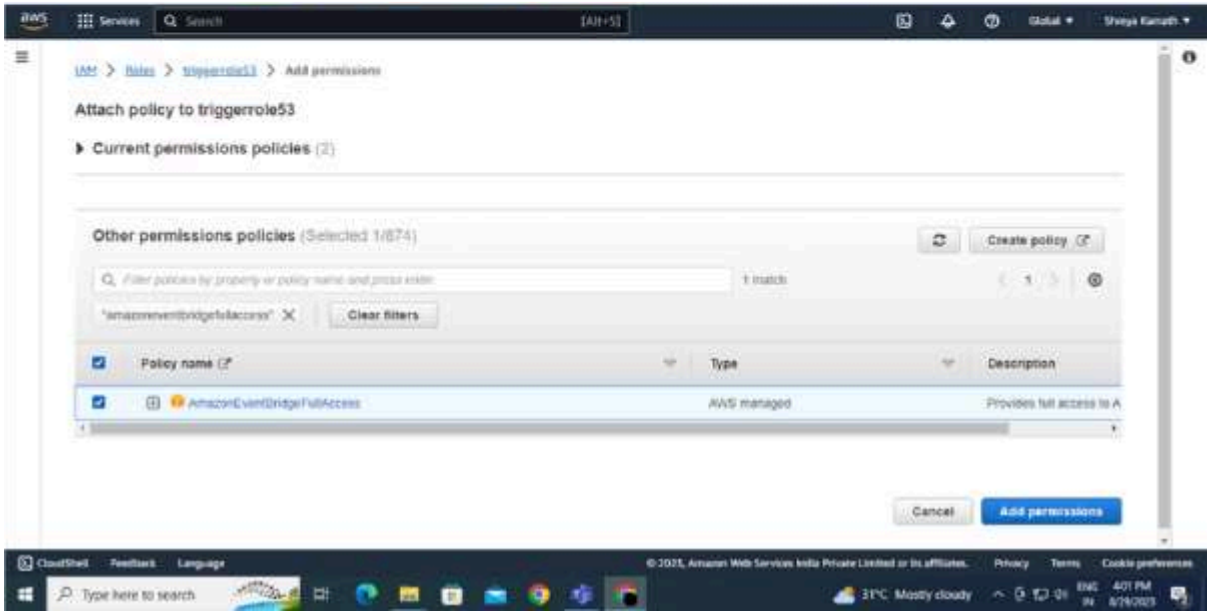

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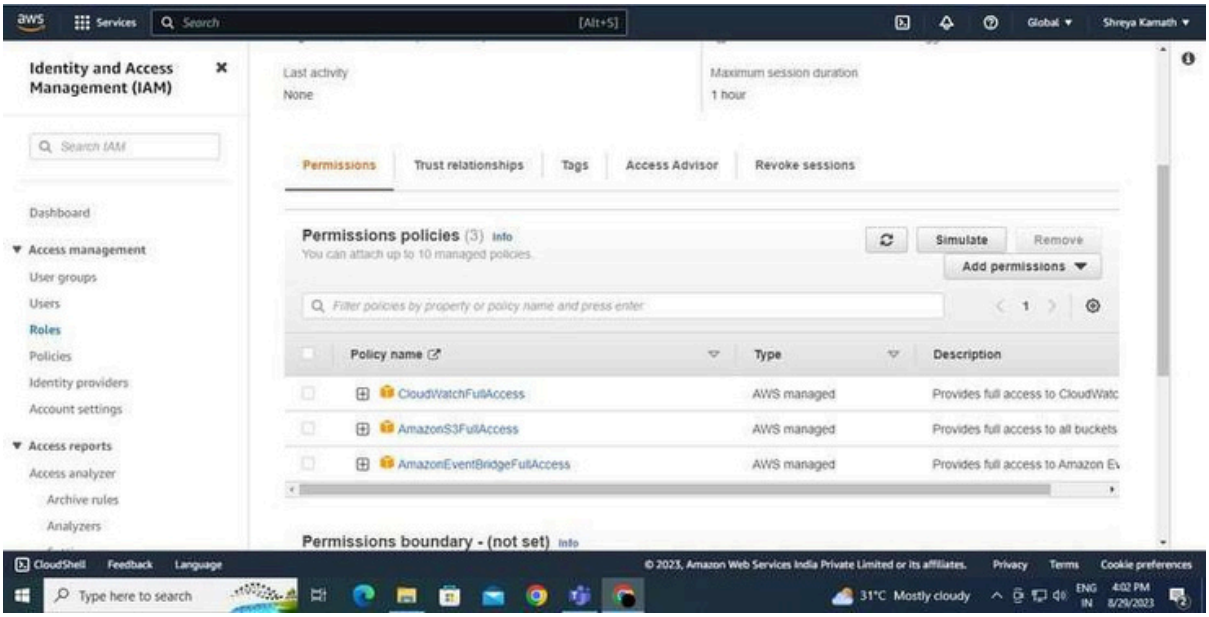

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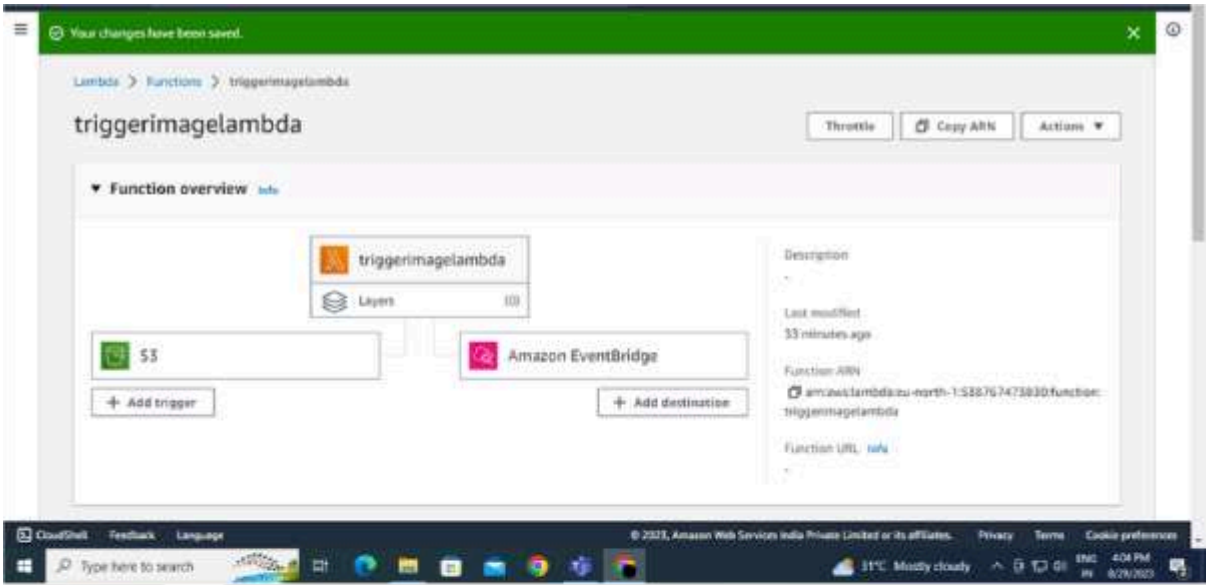

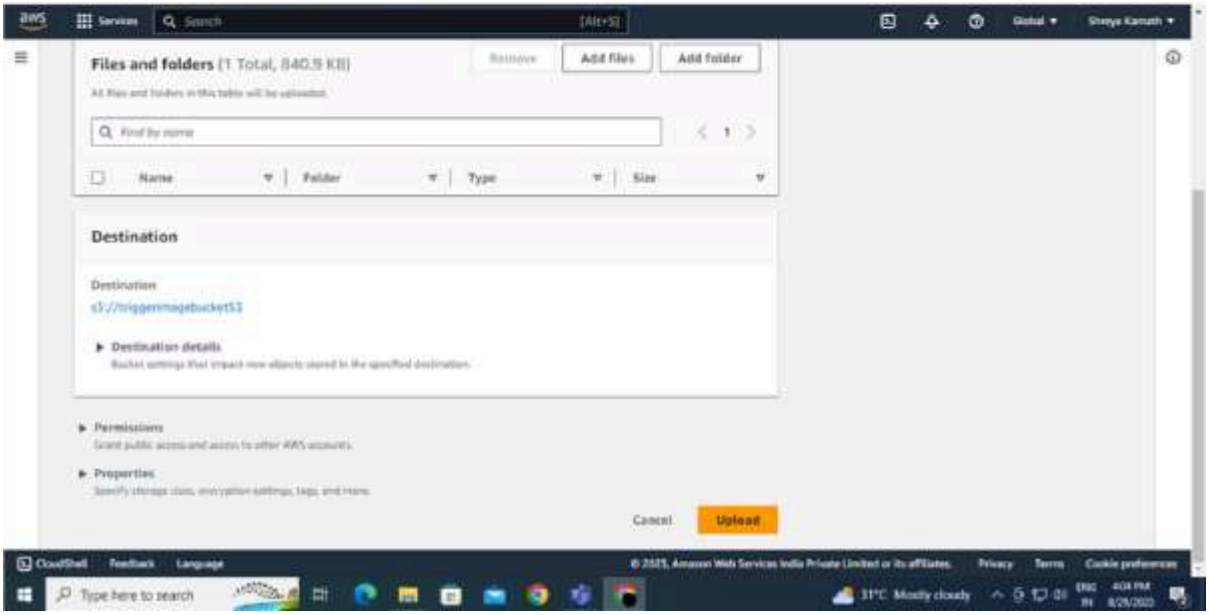

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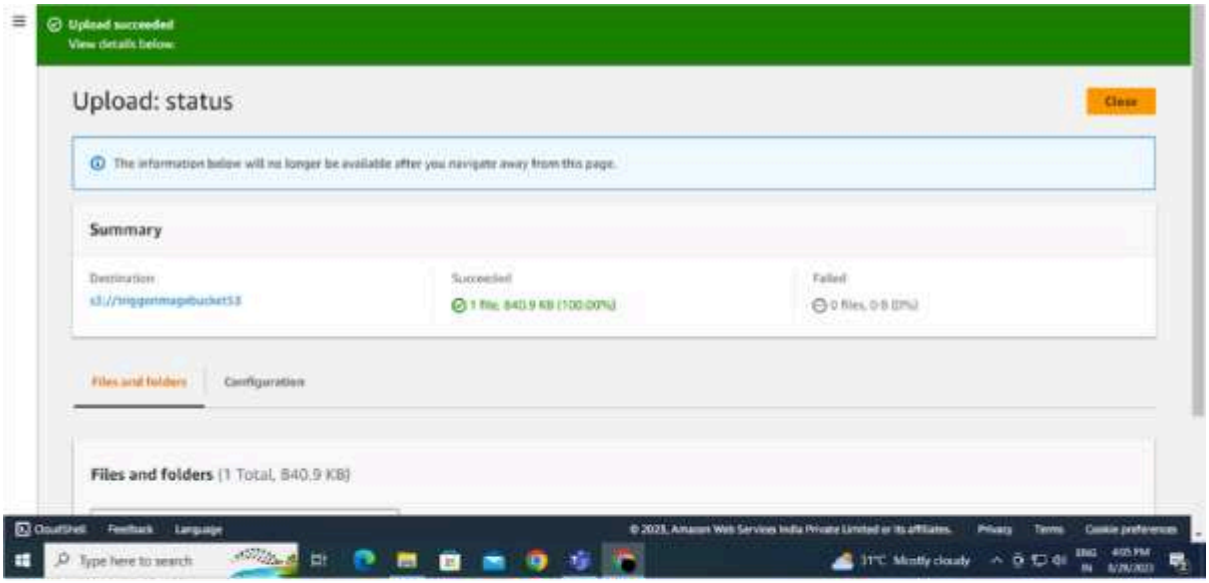

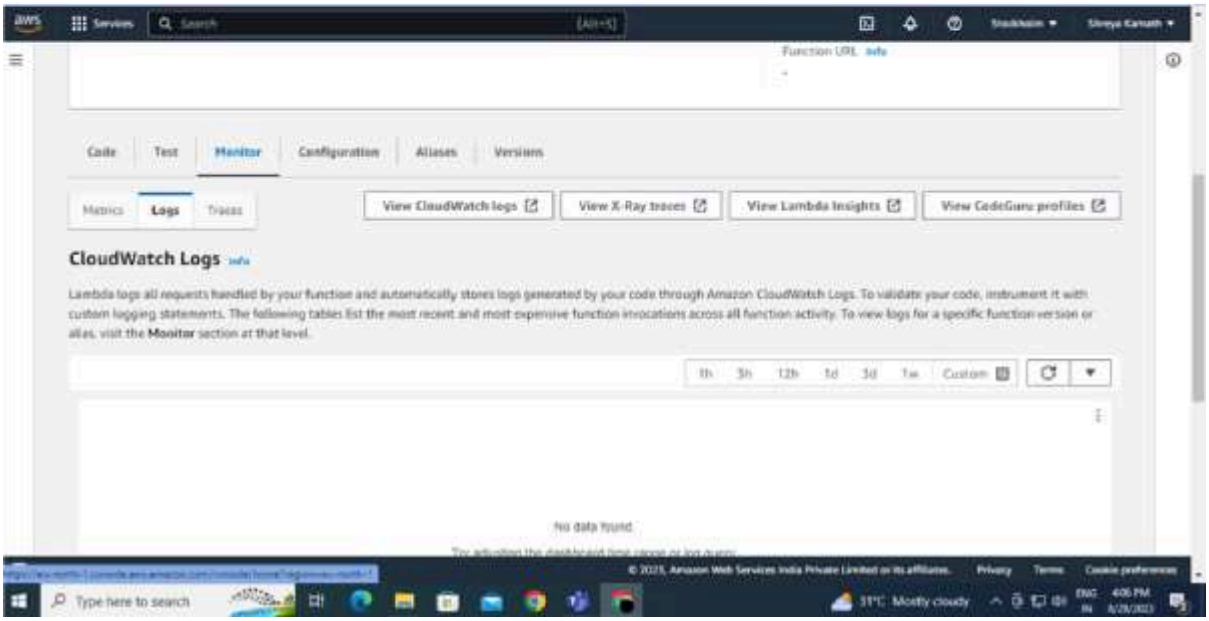

CONCLUSION:

Hence, I have understood AWS Lambda Functions and created a Lambda function using Python to log “An Image has been added” message, once a file is added to an S3 Bucket.