

Lab Assignment 7

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 a S3 bucket.

LO6: To engineer a composition of nano services using AWS Lambda and Step Functions with the Serverless Framework.

THEORY:

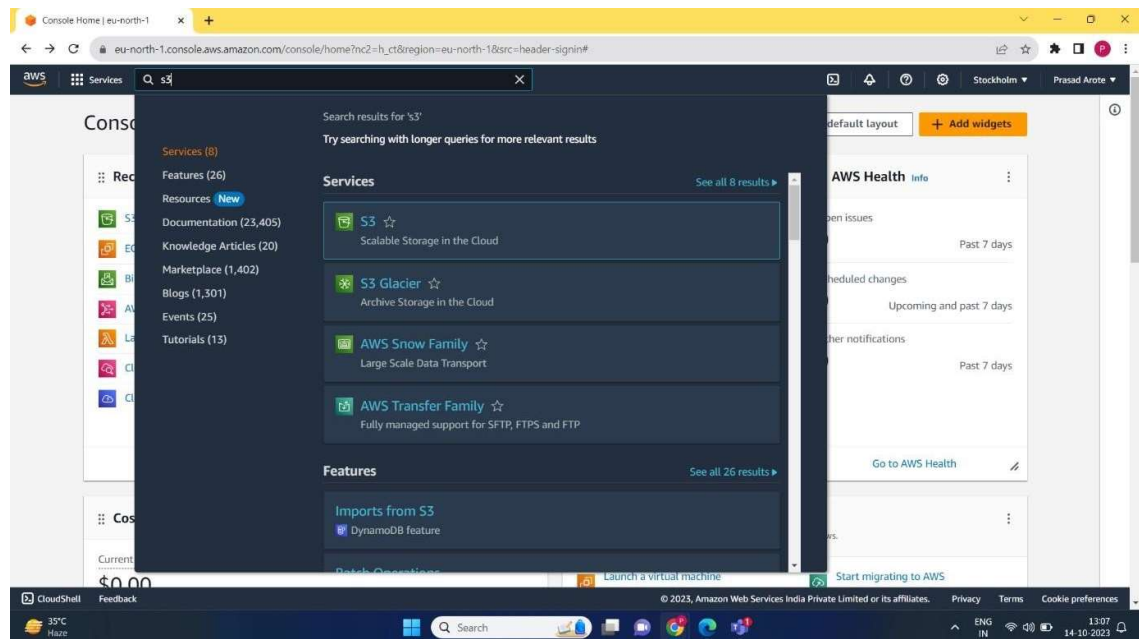
LAMBDA FUNCTION

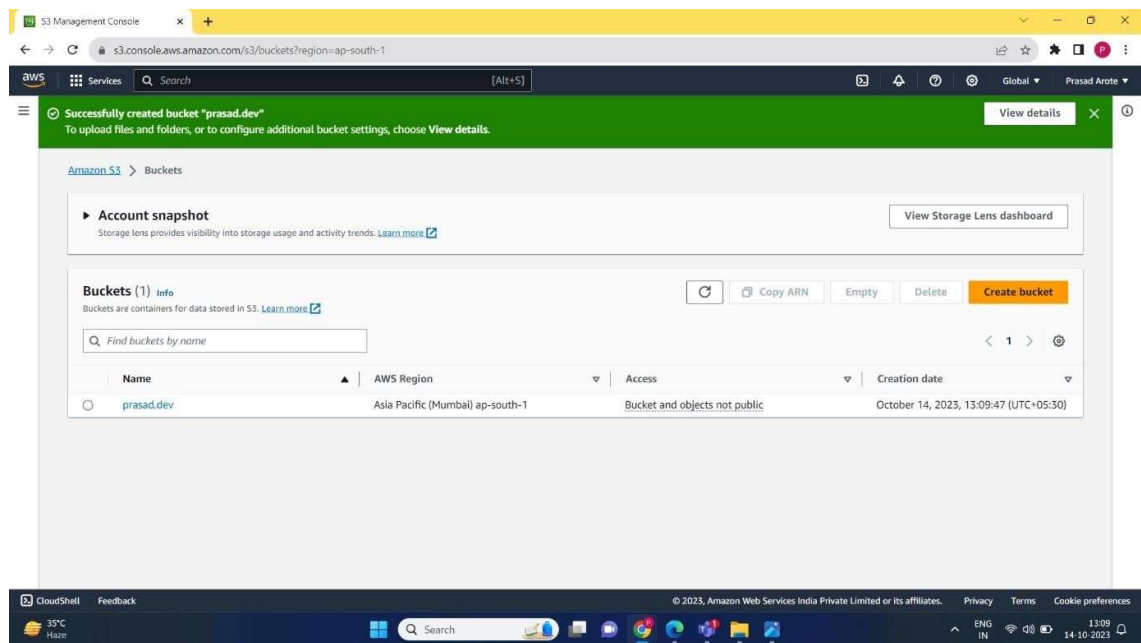
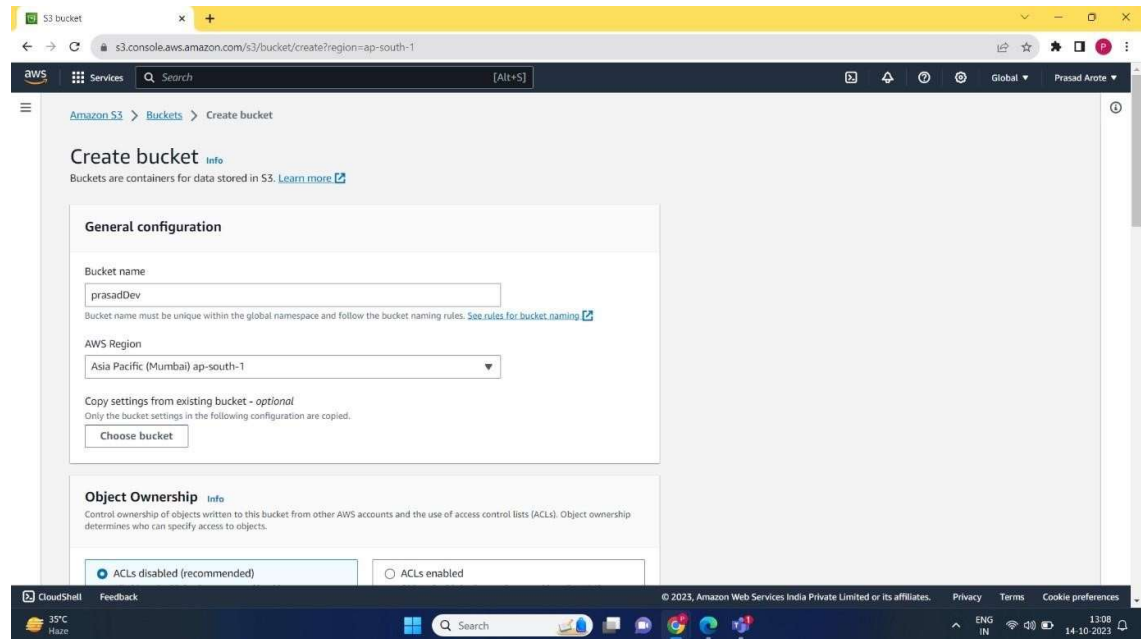
AWS Lambda is a serverless, event-driven compute service that lets you run code for virtually any type of application or backend service without provisioning or managing servers. You can trigger Lambda from over 200 AWS services and software as a service (SaaS) applications, and only pay for what you use.



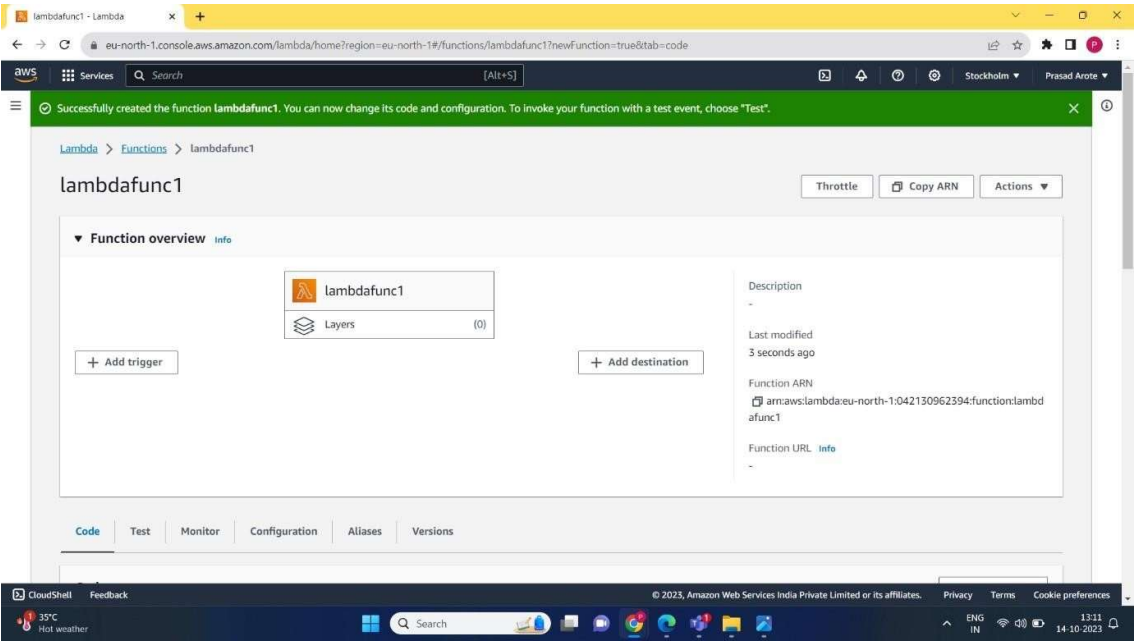
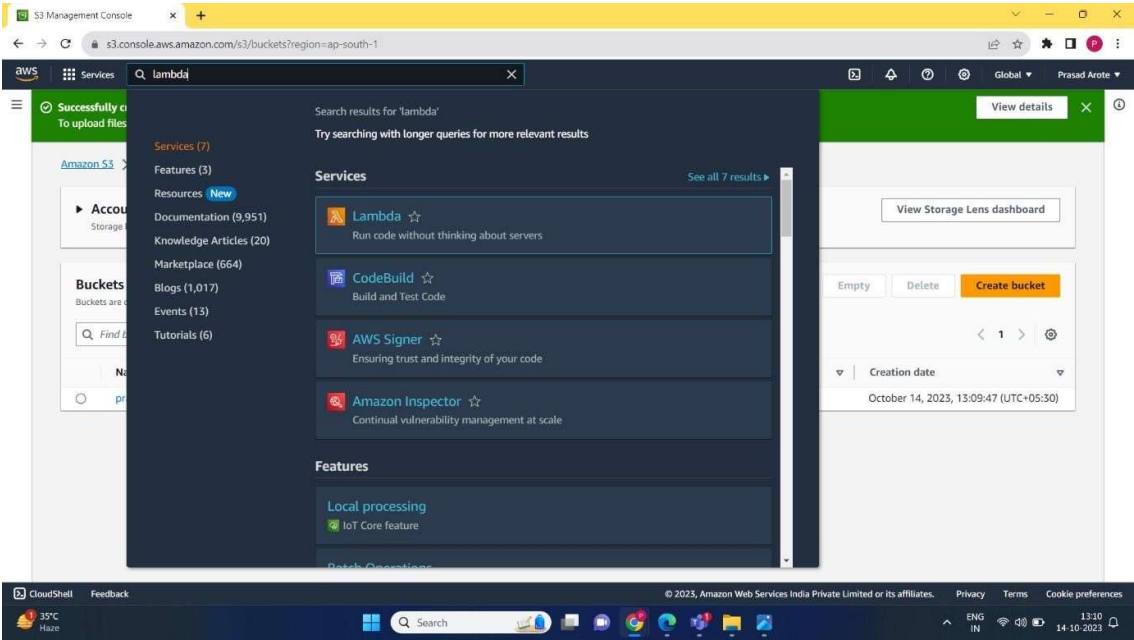
Installation:

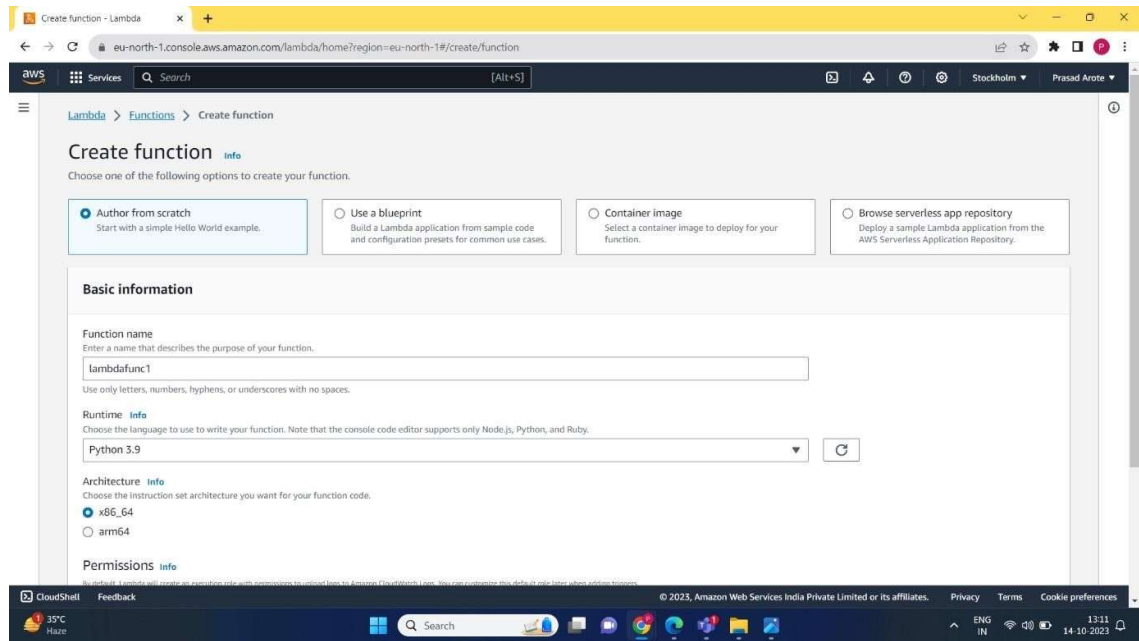
1. Create a S3 bucket



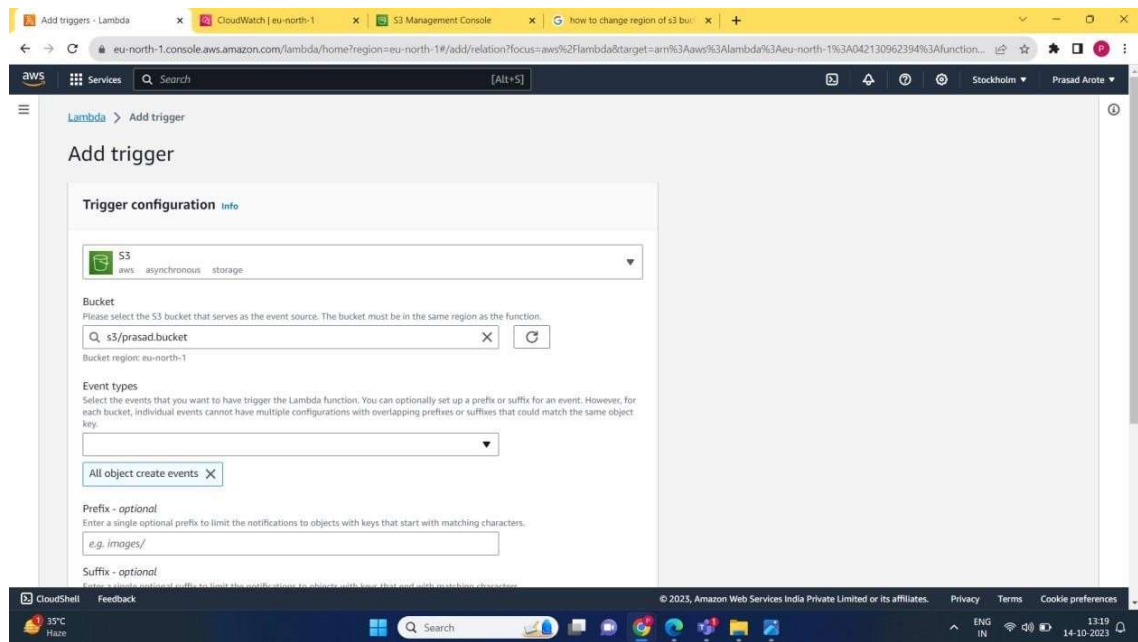


2. Create a Lambda function.





3. Create a trigger

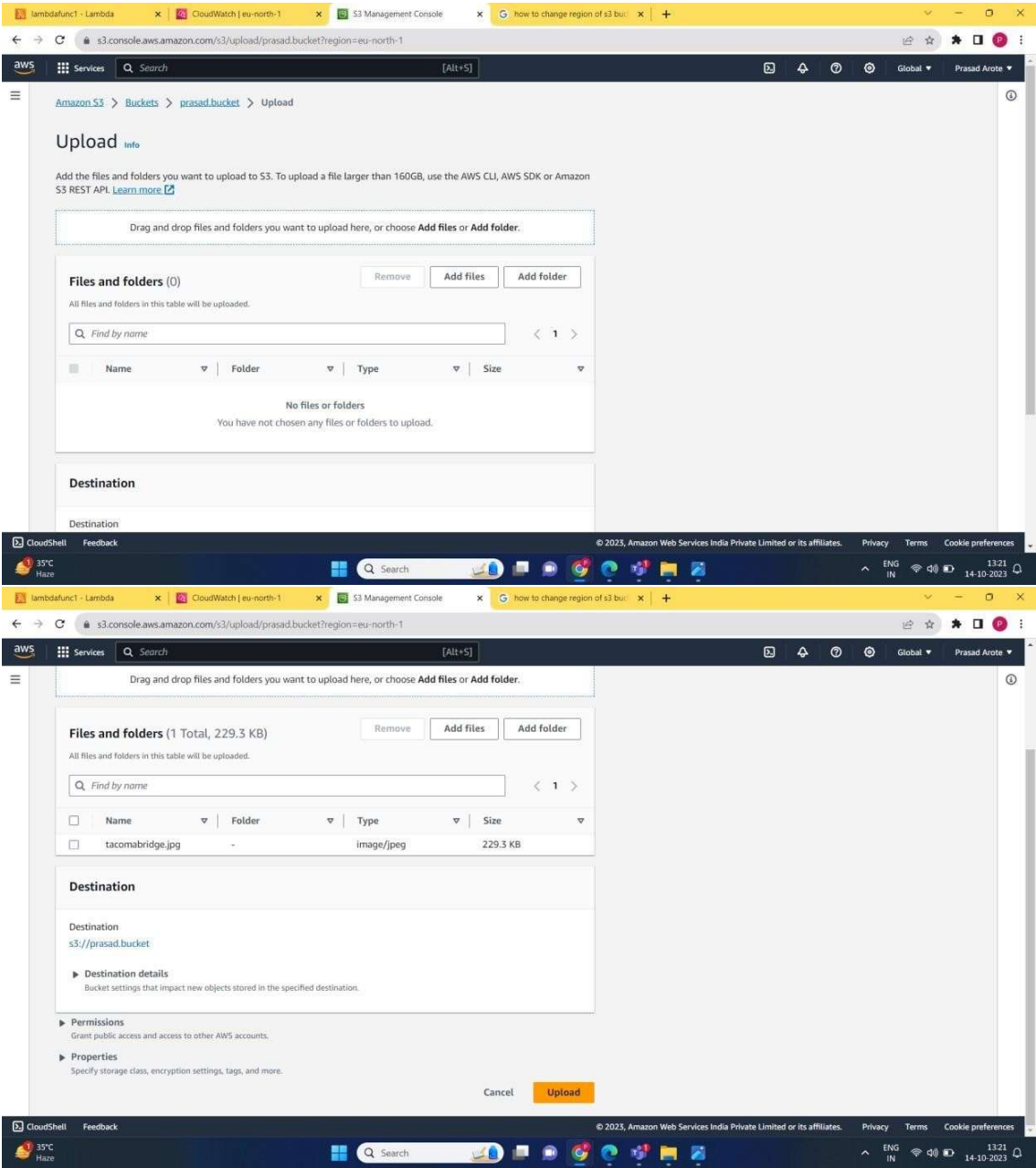


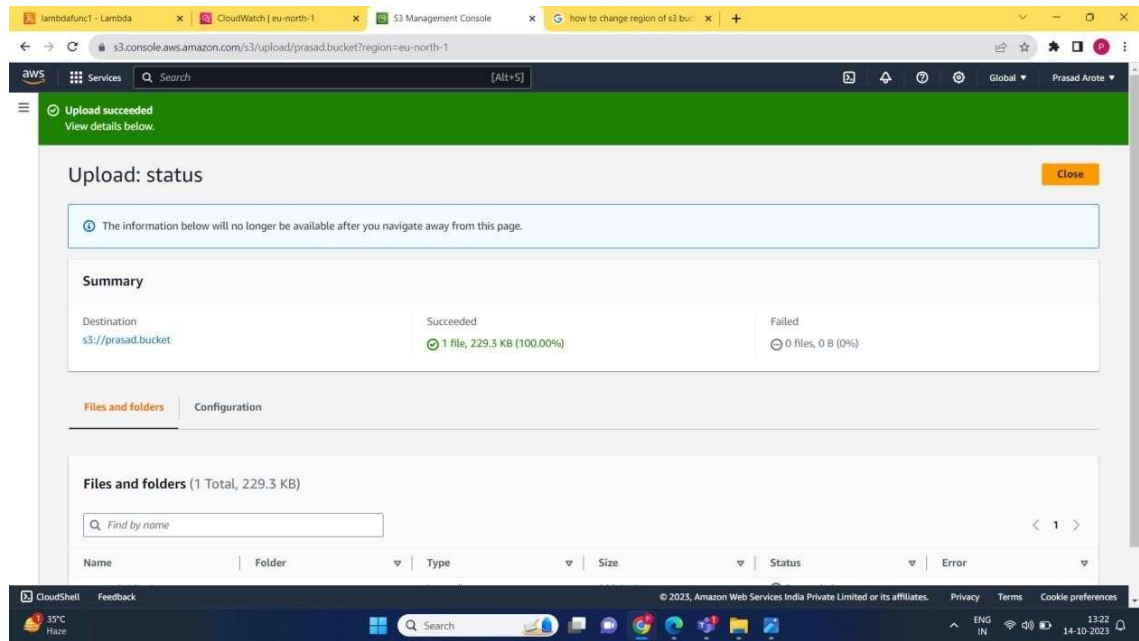
The screenshot displays the AWS Lambda console in the eu-north-1 region. The top section shows the 'Add triggers' configuration for a Lambda function. The 'Event types' dropdown is set to 'All object create events'. The 'Prefix' and 'Suffix' fields are optional and currently empty. A checkbox for 'Recursive invocation' is checked, with a warning that using the same S3 bucket for both input and output is not recommended. A green notification bar at the bottom of the configuration window states: 'The trigger prasad.bucket was successfully added to function lambdafunc1. The function is now receiving events from the trigger.'

The bottom section shows the 'Function overview' for 'lambdafunc1'. It includes a diagram of the function's architecture, showing the function connected to an S3 bucket. The 'Add trigger' button is visible. The 'Description' tab is active, displaying the function's details:

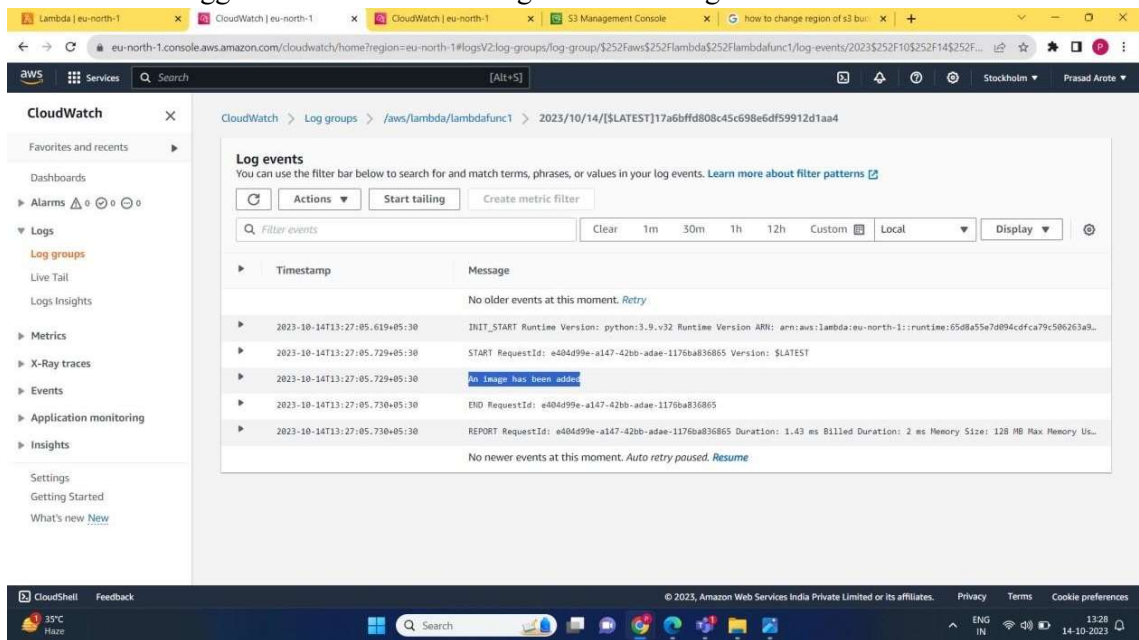
- Description: *
- Last modified: 8 minutes ago
- Function ARN: arn:aws:lambda:eu-north-1:042130962394:function:lambdafunc1
- Function URL: [info](#)

The bottom of the console shows the 'Configuration' tab selected, with other tabs like 'Code', 'Test', 'Monitor', 'Aliases', and 'Versions' available.





4. Thus we have triggered the function that logs when an image is added to S3 Bucket.



Conclusion: We have successfully created an lambda functions that logs when an image is added in S3 bucket.

