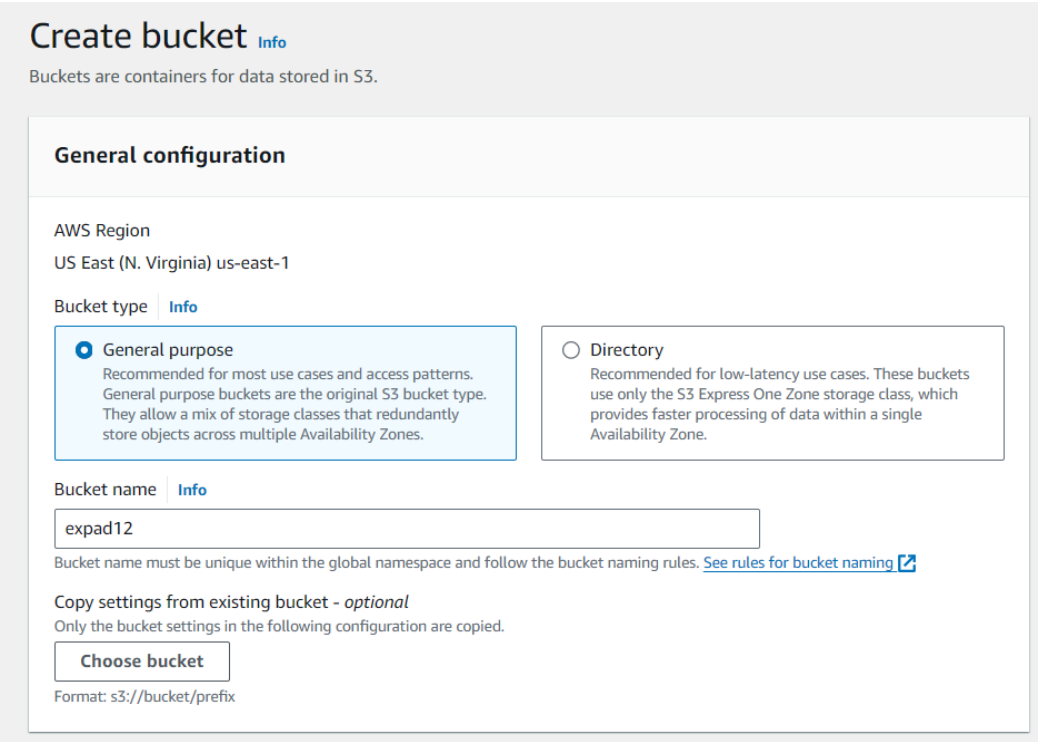
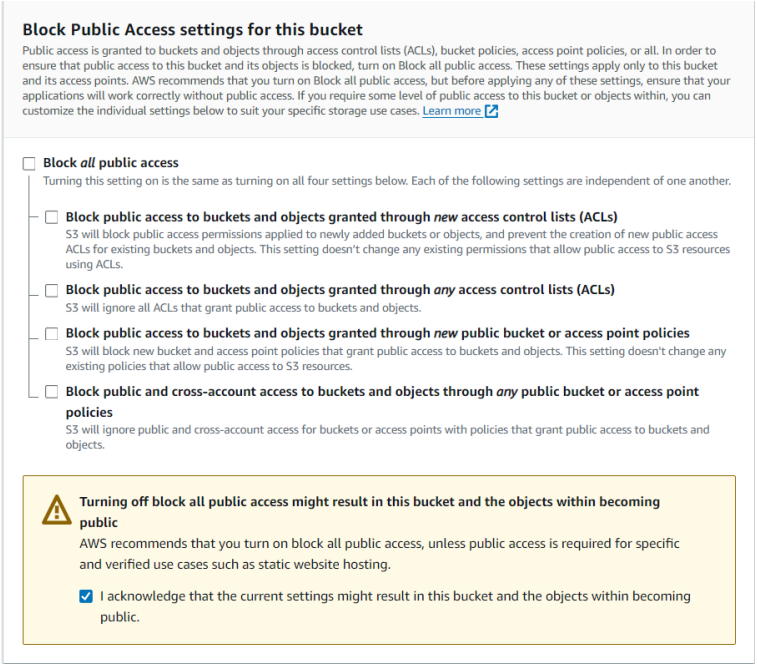
Veydant Sharma D15 C 50 AdvDevop Experiment 12

Aim: To create a Lambda function which will log “An Image has been added” once you add an object to a specific bucket in S3.

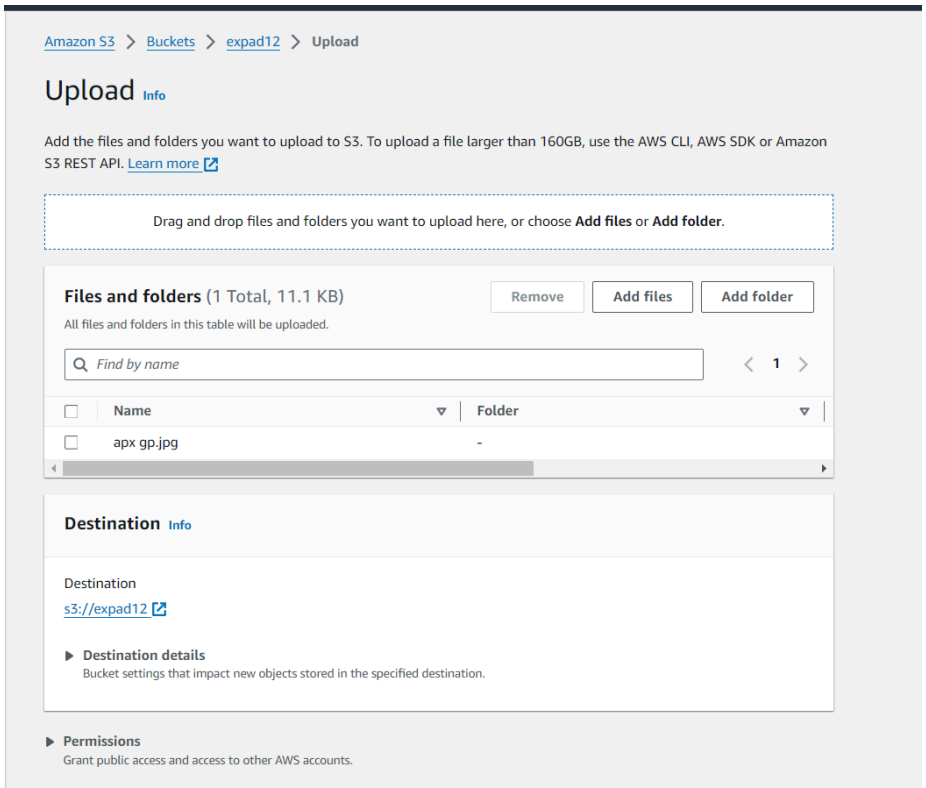
Step 1: On your AWS console, click on ‘S3’ in the services section and click on ‘Create bucket’. Give your bucket a name.



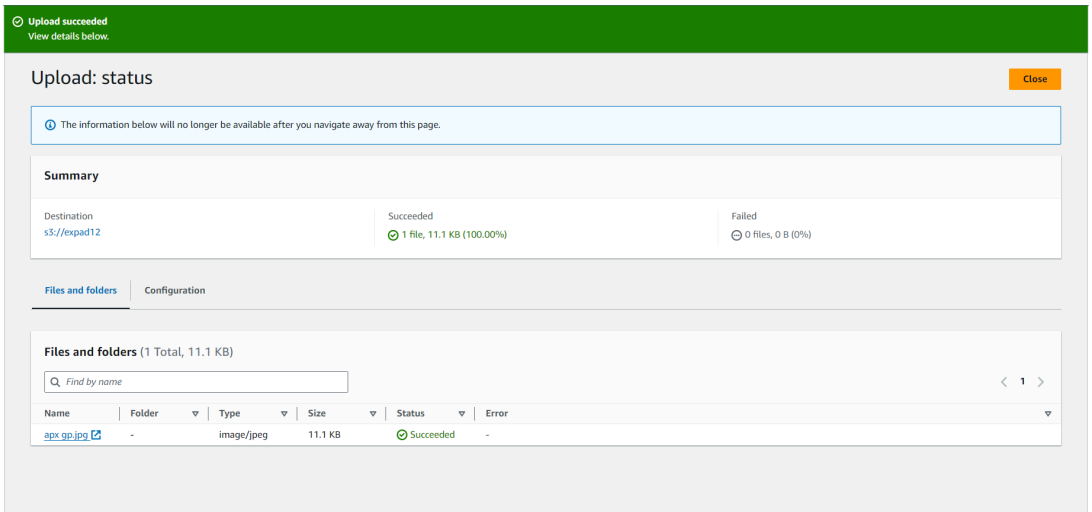
Uncheck the ‘Block all public access’ box.



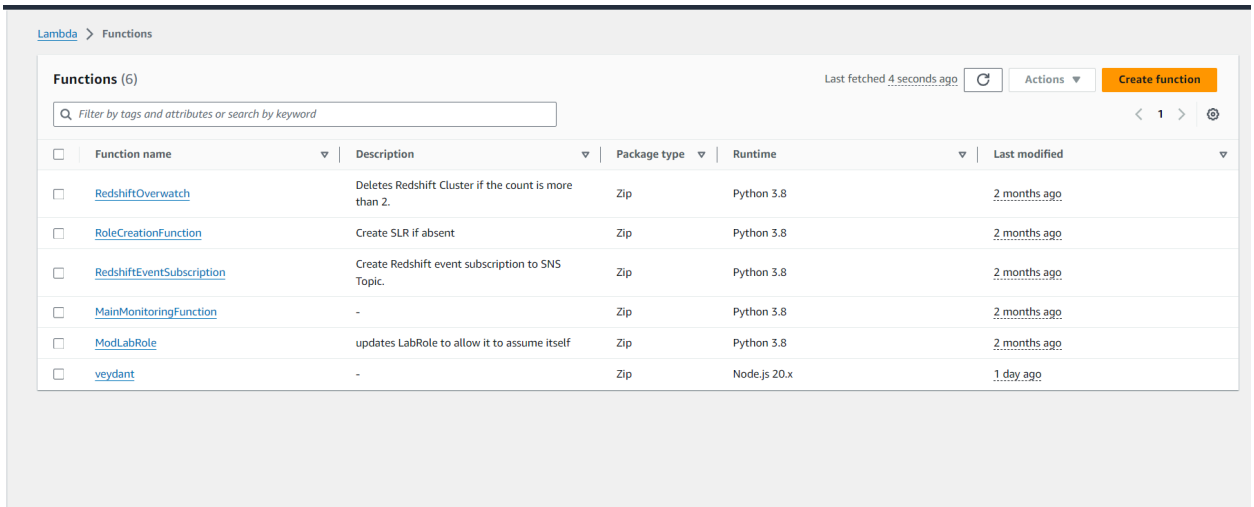
Step 2: Upload an image onto your S3 bucket by clicking on your S3 bucket, clicking on 'Upload', clicking on 'Add files', navigating to your image and selecting it.



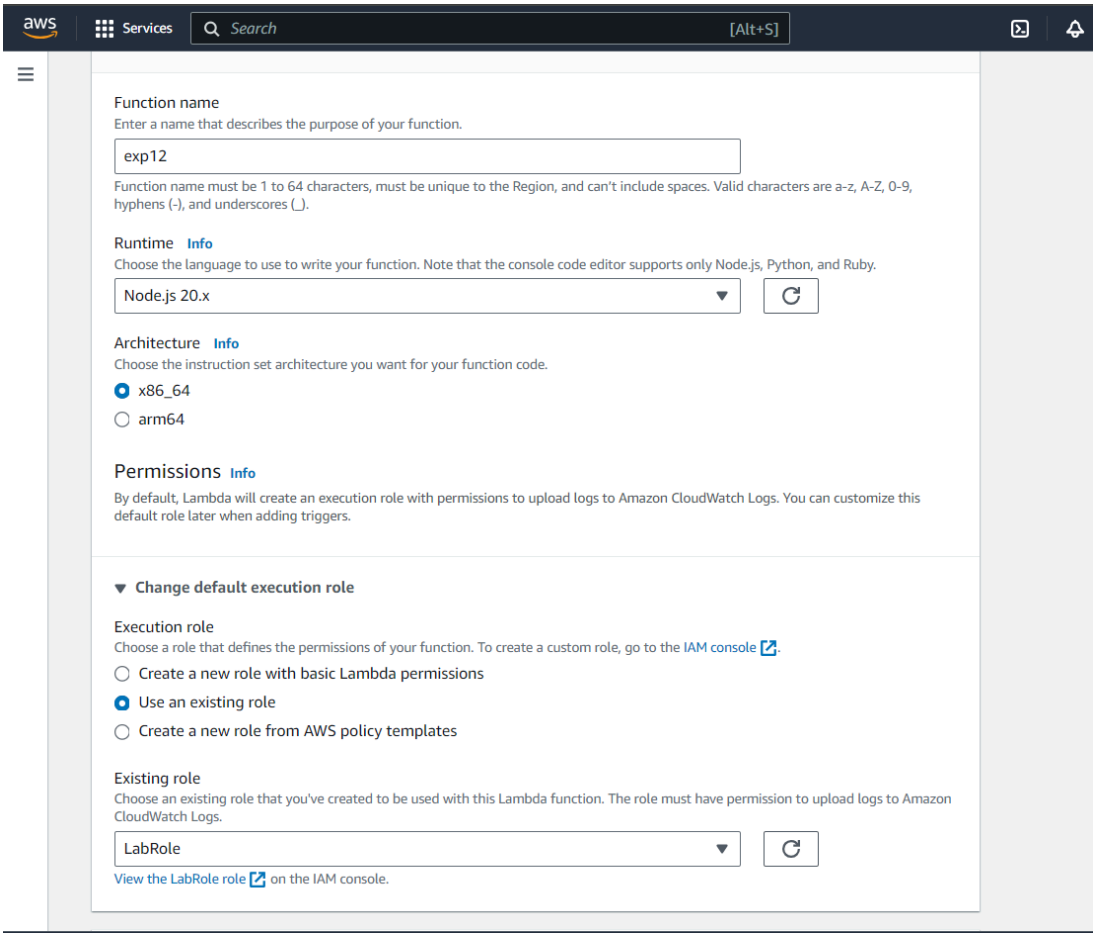
Your image gets uploaded onto the S3 bucket



Step 3: Navigate to the AWS Lambda console using the 'Services' section. Click on 'Create function'.

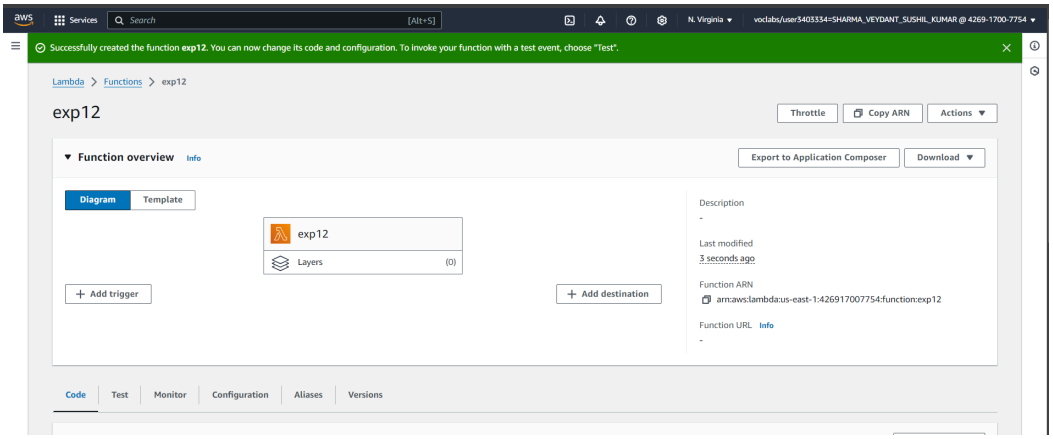


Step 4: Give your function a name and keep other settings as default

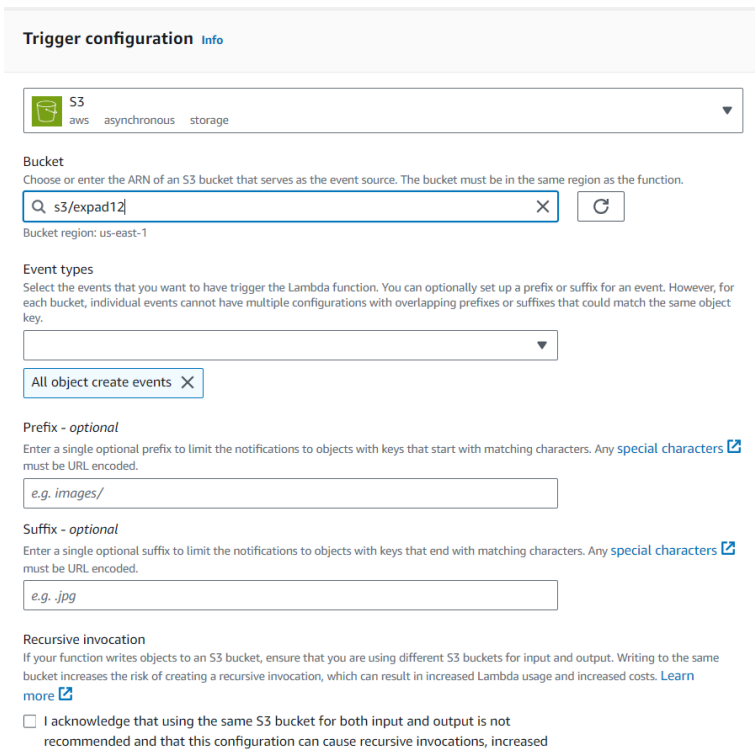


Step 5: On the page of the function you created, click on ‘Add trigger’

Step 6: Choose ‘Trigger configuration’ as S3 and select the name of your bucket in the dropdown box below it. Keep other options as default and click on ‘Add’.

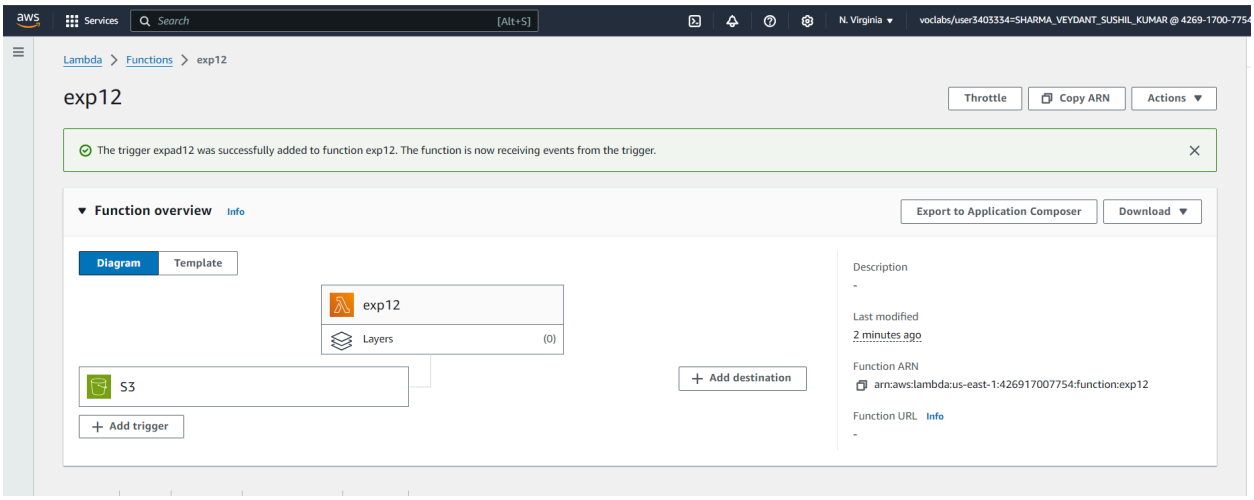


The trigger gets successfully added to your function



Step 7: In the ‘Code source’ section of your function, paste the following javascript code instead of the existing code:-

export const handler = async (event) => { if (!event.Records || event.Records.length === 0) { console.error("No records found in the event."); return { statusCode: 400, body: JSON.stringify('No records found in the event') }; } // Extract bucket name and object key from the event const record = event.Records[0]; const bucketName = record.s3.bucket.name; const objectKey = decodeURIComponent(record.s3.object.key.replace(/\+/g, ' ')); // Handle encoded keys console.log(`An image has been added to the bucket ${bucketName}: ${objectKey}`); console.log(`Event Source: ${record.eventSource}`); console.log(`Event Source: ${record.eventSource}`); console.log(`Event Source: ${record.eventSource}`); console.log(`Event Source: ${record.eventSource}`); return { statusCode: 200, body: JSON.stringify('Log entry created successfully!') }; };



Step 8: Click on the arrow next to the ‘Test’ button and click on ‘Configure test event’. In the popup box that appears, if you have an existing event, enter the name of your event or create a new event and add the code.

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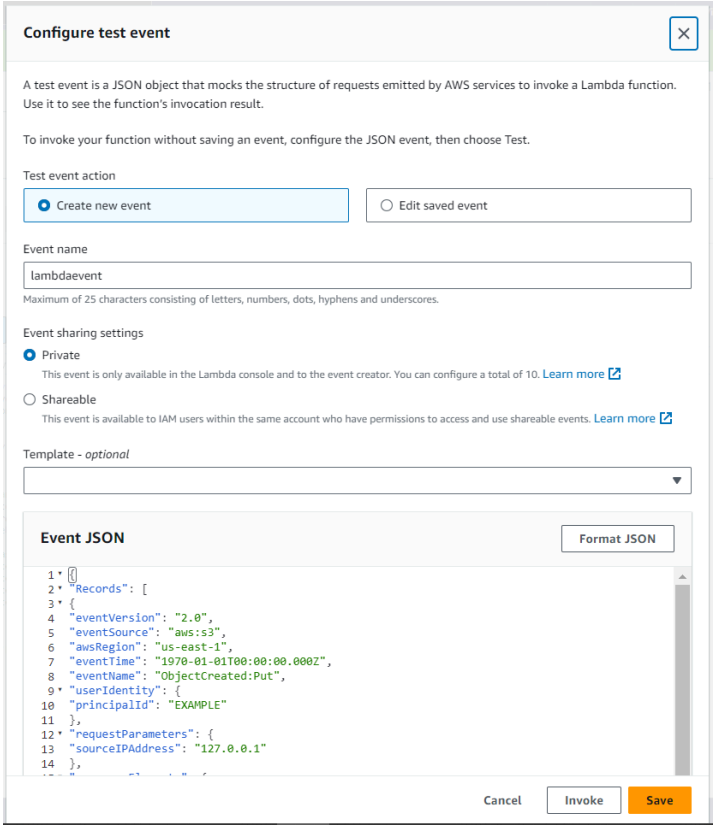
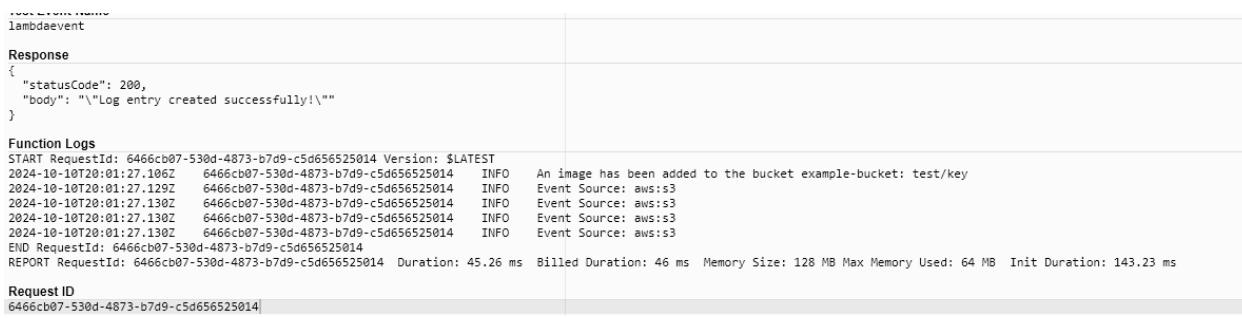
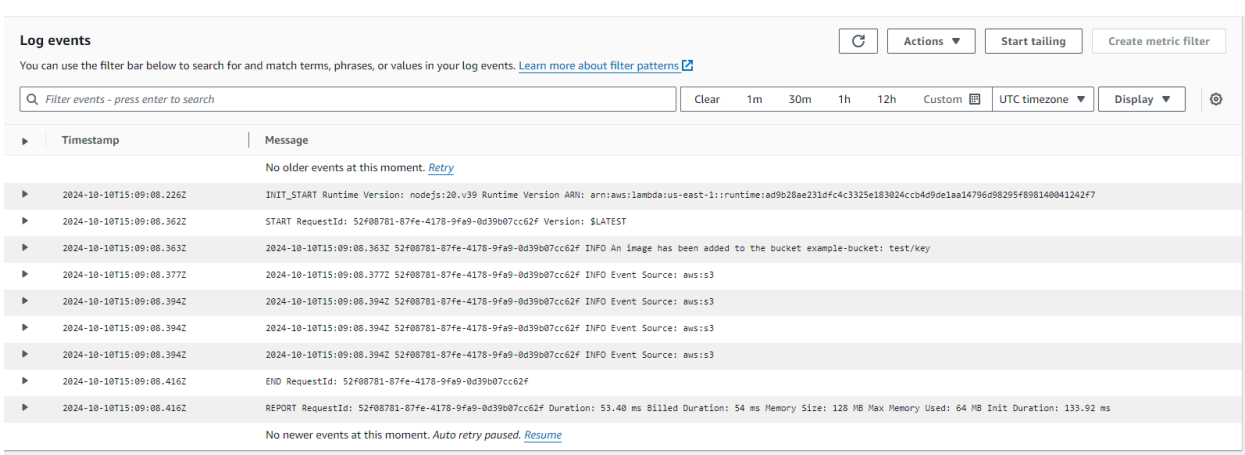


Step 9: Response generated after testing the code logs that the image was uploaded successfully.





Conclusion

- In this experiment we created Lambda function with S3 bucket that uploads our image.
- We configured the ‘Code section’ of our Lambda function and a test event for our Lambda function.
- A log of our function was also created showing successful operation.