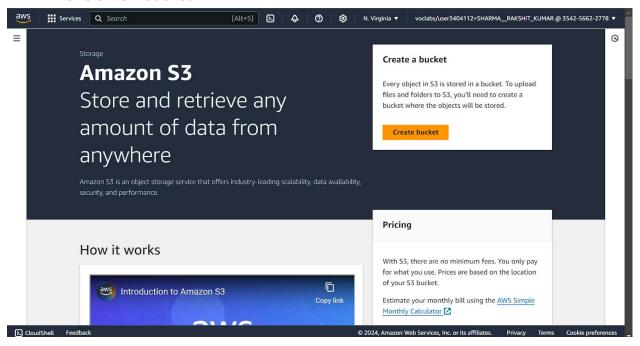
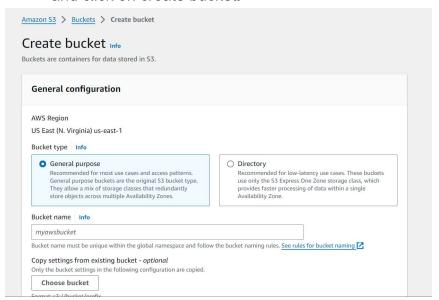
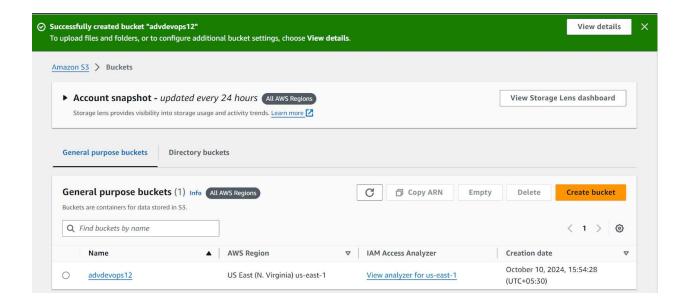
**Aim:** To create a Lambda function which will log "An Image has been added" once you add an object to a specific bucket in S3

1. Login to your AWS account. Search for S3 service, click on create bucket to make a new bucket.

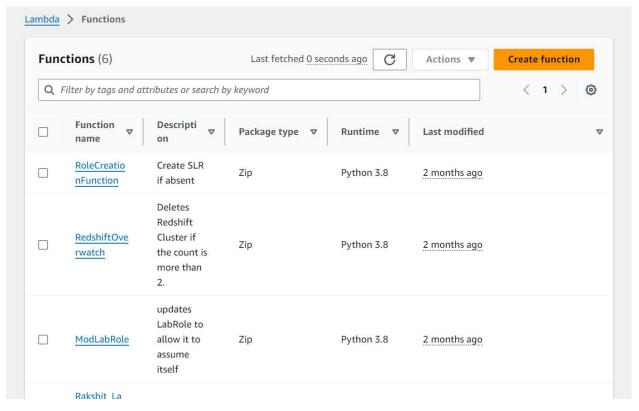


2. Select the bucket type as general purpose, give your bucket an appropriate name. Uncheck the block all public access. Keep rest of the settings as default and click on create bucket.

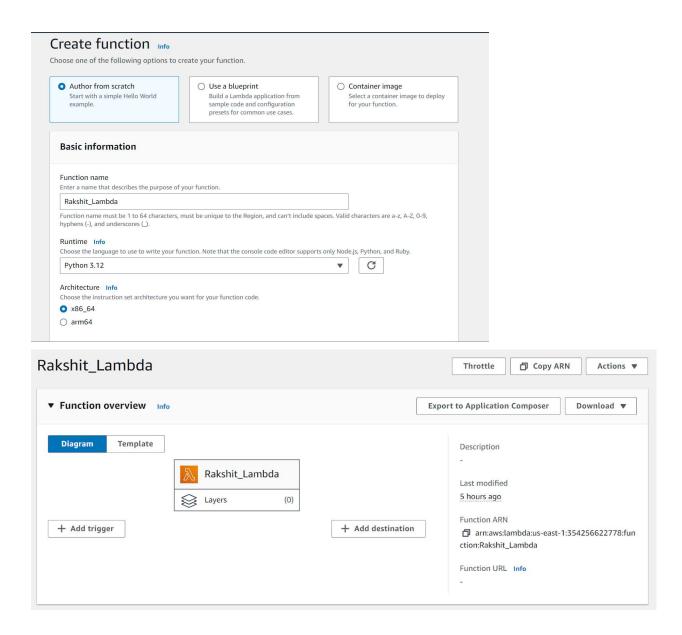




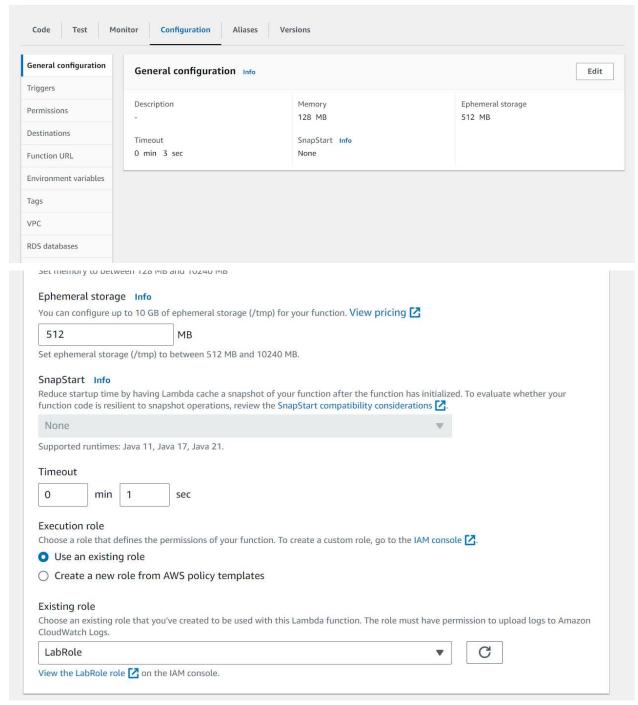
Search for lambda and open its console. Click on create function to make a new function.



4. Give a name to your lambda function. Select the language you want to use to write the functions. We will use Python 3.12, Architecture x86. Select Execution role to Create a new role with basic Lambda permissions.

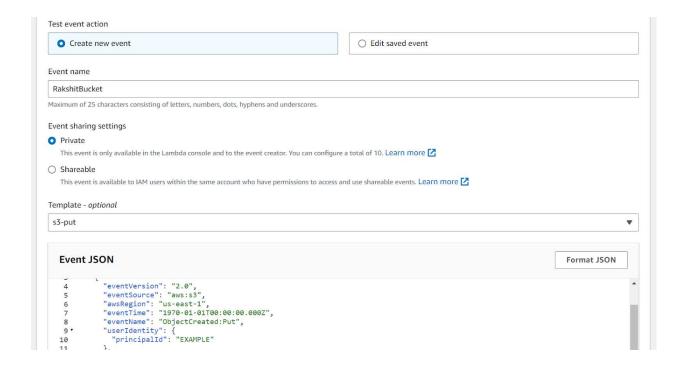


5. Scroll down and go to the configuration tab. In General configuration click on edit to change the configuration.

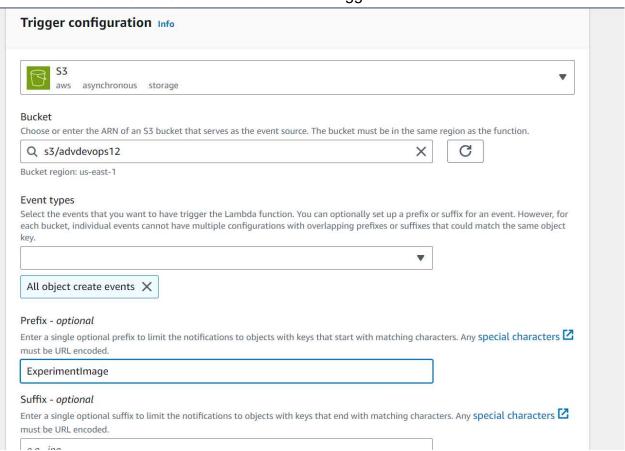


Here, you can enter a description and change Memory and Timeout. I've changed the Timeout period to 1 sec since that is sufficient for now

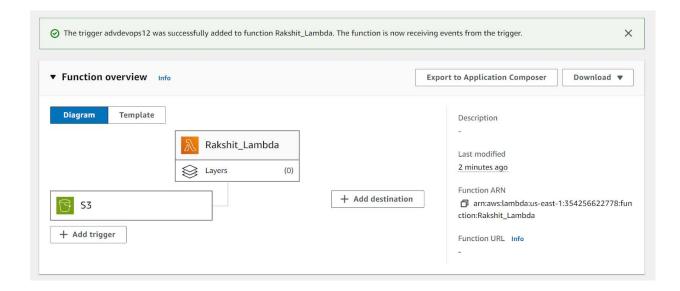
6. Now to create a new event, go to the test tab. Create a new event, give a name to the event and select Event Sharing to private, and select s3 put template.



7. Now in the lambda function click on add trigger.



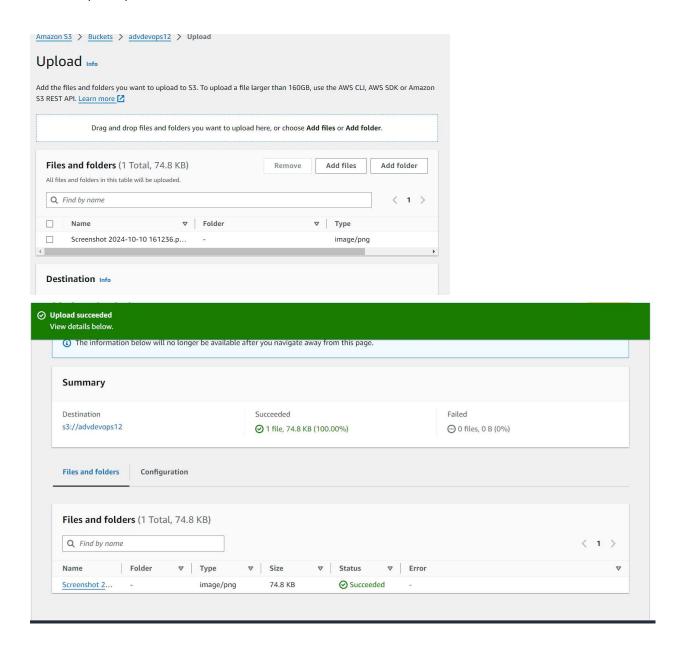
Select the source as s3, and search for the bucket that we created earlier. If you want you can add the prefix for the image. Keep the rest of the setting as default and add trigger.



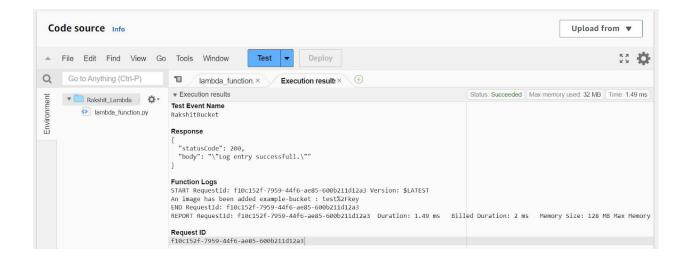
8. Now Write code that logs a message like "An Image has been added" when triggered. Save the file and click on deploy.



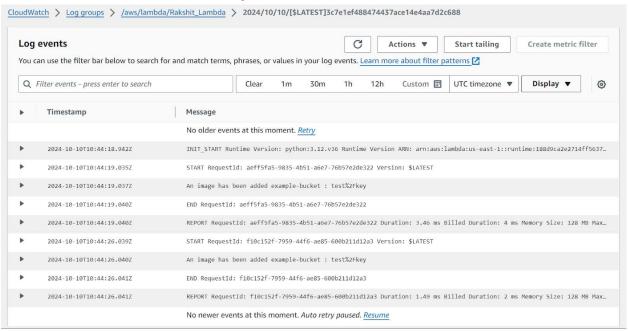
9. Now we will upload an image to our bucket.



10. Now in lambda function, select the event which we created now and click on test. Check if it is logging the string that we added in our code.



11. Now Lets see the log on Cloud watch. To see it go to monitor section and then click on view cloudwatch logs.



## Conclusion:

In this experiment, we successfully created a Lambda function that logs "An Image has been added" when an object is uploaded to a specific S3 bucket. We started by creating an S3 bucket and setting up a Lambda function with Python 3.12. We configured a trigger for the Lambda function to monitor the S3 bucket and added code to log the message when an image is uploaded. After deploying the code and testing it by uploading an image, we verified the logs in CloudWatch. This experiment demonstrated the use of AWS Lambda for event-driven automation, specifically integrating Lambda with S3.