ADVANCE DEVOPS EXP-12

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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: Login to your AWS Personal account. Now open S3 from services and click on create S3 bucket and create a bucket.

Step 2: Now Give a name to the Bucket, select general purpose project and deselect the Block public access and keep other this to default.

Amazon S3 > Buckets > Create bucket

Create bucket Info

Buckets are containers for data stored in S3.

General configuration

AWS Region

US East (Ohio) us-east-2

Bucket name Info

RiyaBucket

Bucket name must be unique within the global namespace and follow the bucket naming rules. See rules for bucket naming

Copy settings from existing bucket - *optional*

Only the bucket settings in the following configuration are copied.

Choose bucket

Format: s3://bucket/prefix

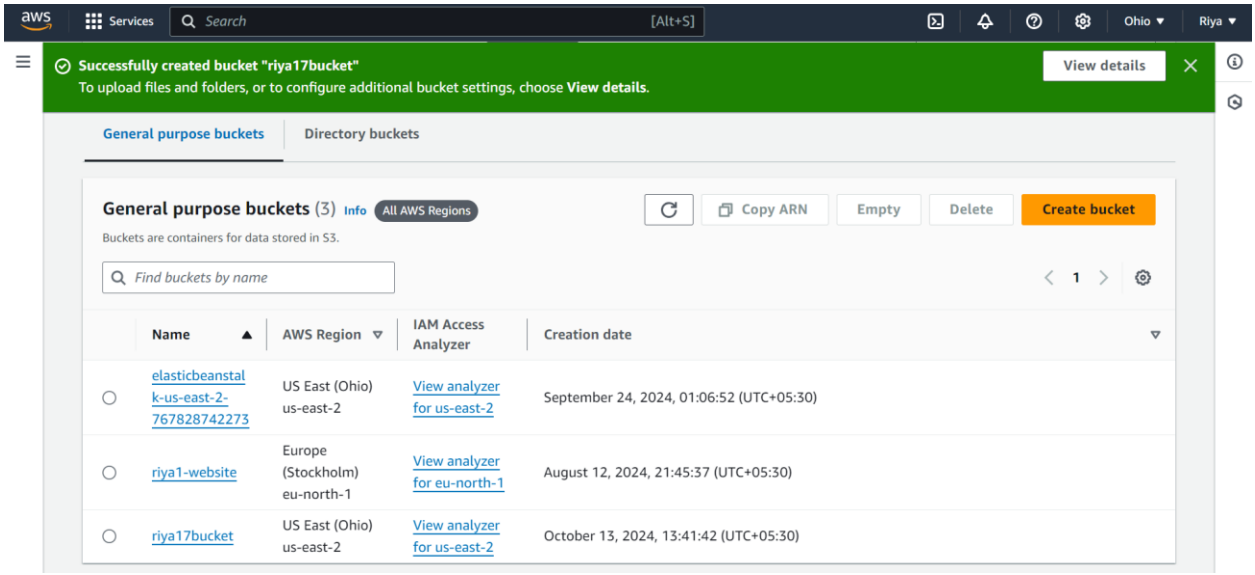
Object Ownership Info

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

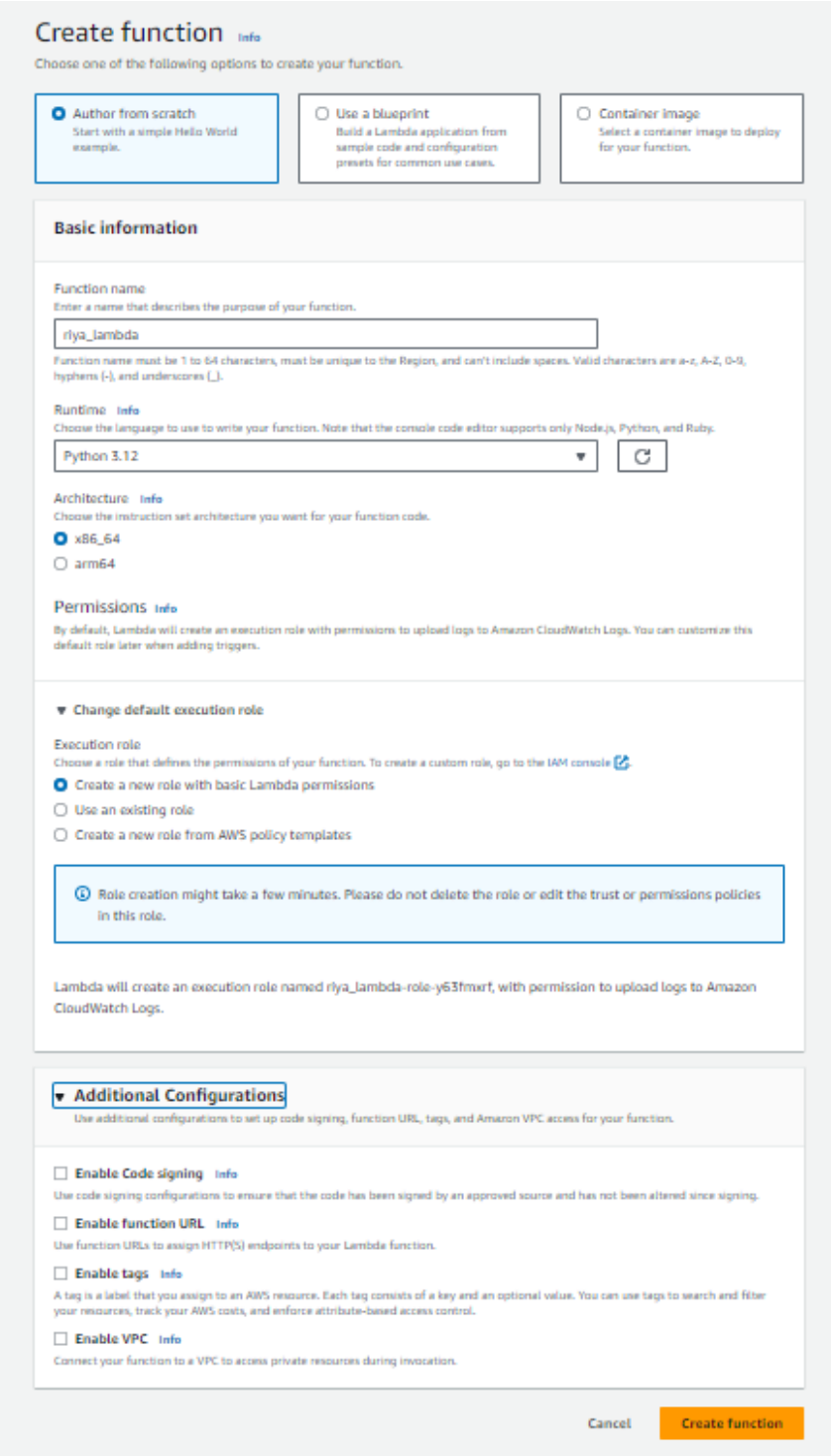
- (●) ACLs disabled (recommended)
  All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.
- ( ) ACLs enabled
  Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

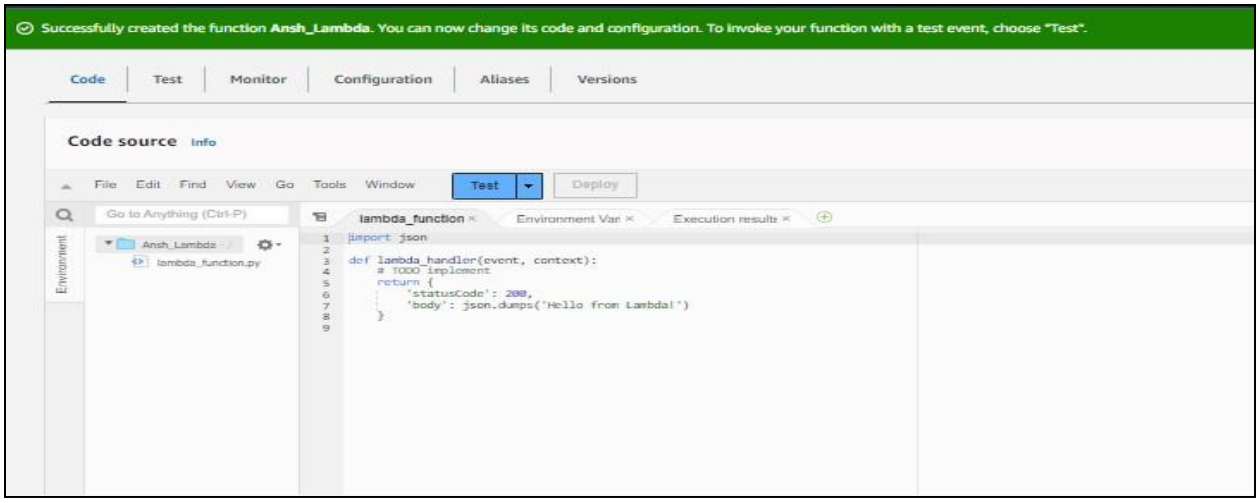
Object Ownership

Bucket owner enforced

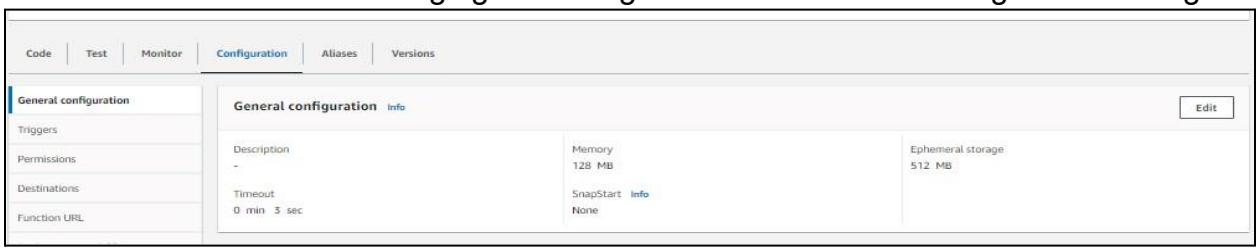

aws
Services
Search
[Alt+S]
Ohio
Riya
Successfully created bucket "riya17bucket"
To upload files and folders, or to configure additional bucket settings, choose View details.
View details
General purpose buckets
Directory buckets
General purpose buckets (3) Info All AWS Regions
Buckets are containers for data stored in S3.
Copy ARN
Empty
Delete
Create bucket
Find buckets by name
1
Name
AWS Region
IAM Access Analyzer
Creation date
elasticbeanstalk-us-east-2-767828742273
US East (Ohio) us-east-2
View analyzer for us-east-2
September 24, 2024, 01:06:52 (UTC+05:30)
riya1-website
Europe (Stockholm) eu-north-1
View analyzer for eu-north-1
August 12, 2024, 21:45:37 (UTC+05:30)
riya17bucket
US East (Ohio) us-east-2
View analyzer for us-east-2
October 13, 2024, 13:41:42 (UTC+05:30)

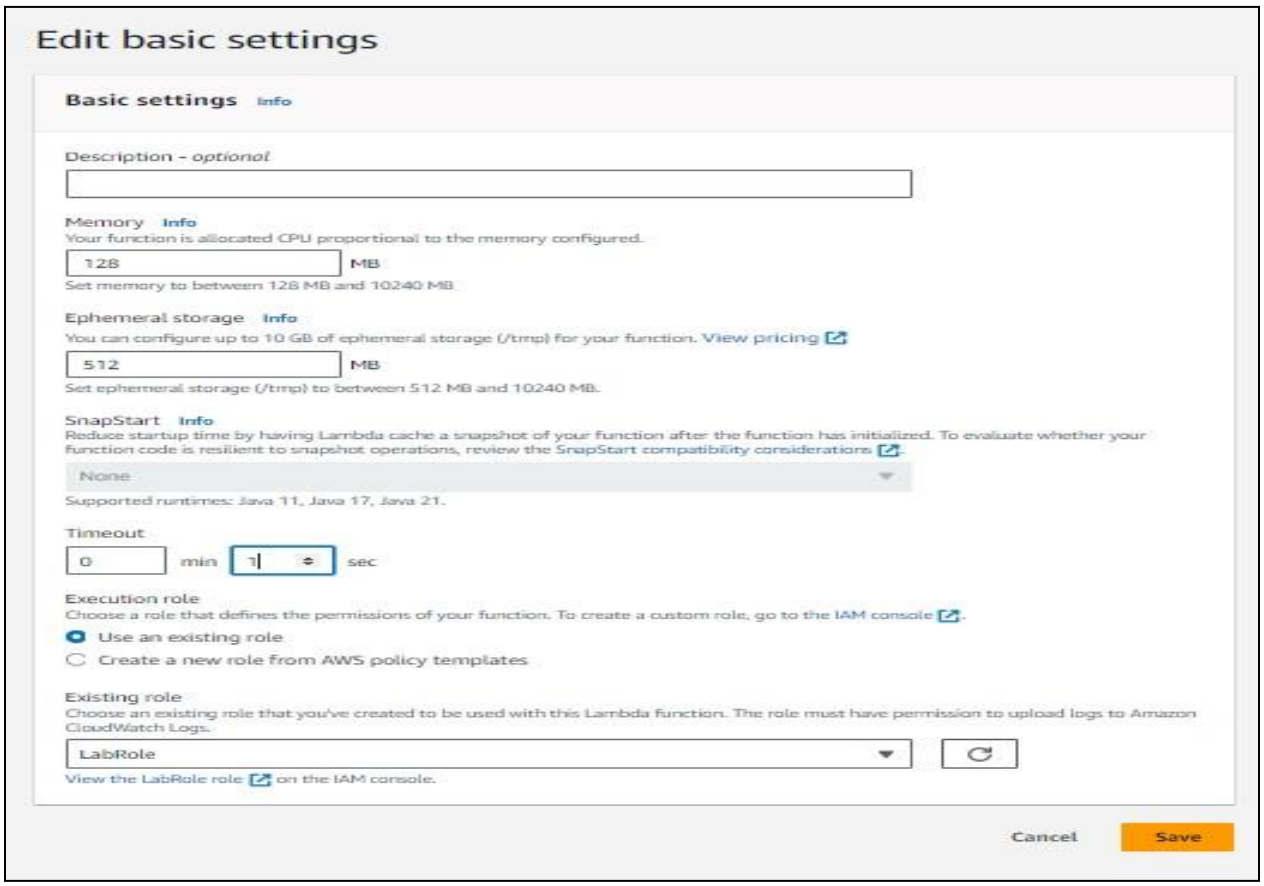
Step 3: Open lambda console and click on create function button.Give a name to your Lambda function, Select the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby. So will select Python 3.12
, Architecture as x86, and existing Execution role



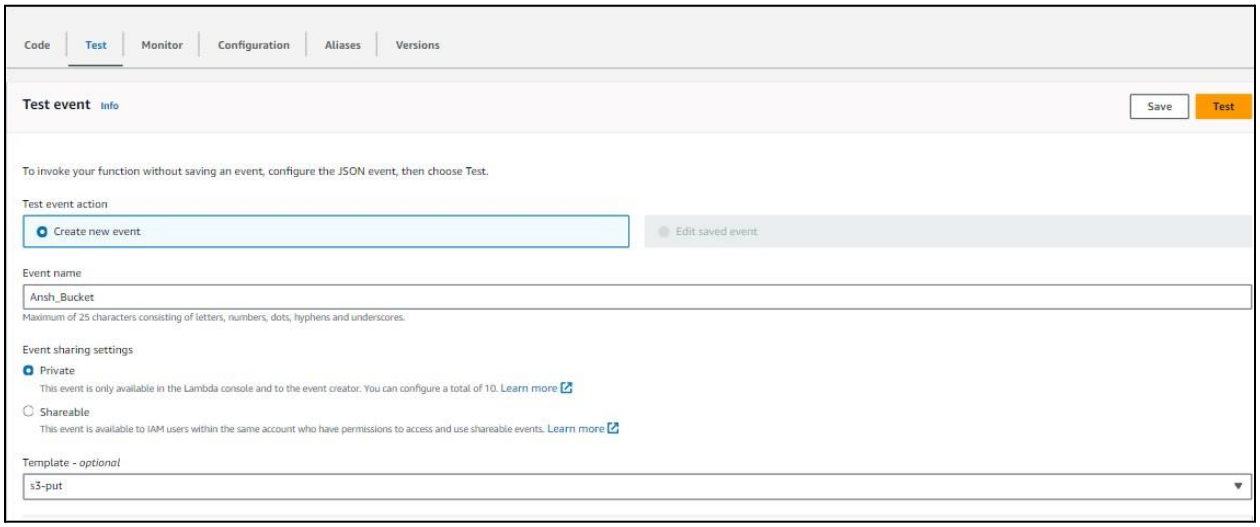


So See or Edit the basic settings go to configuration then click on edit general setting.

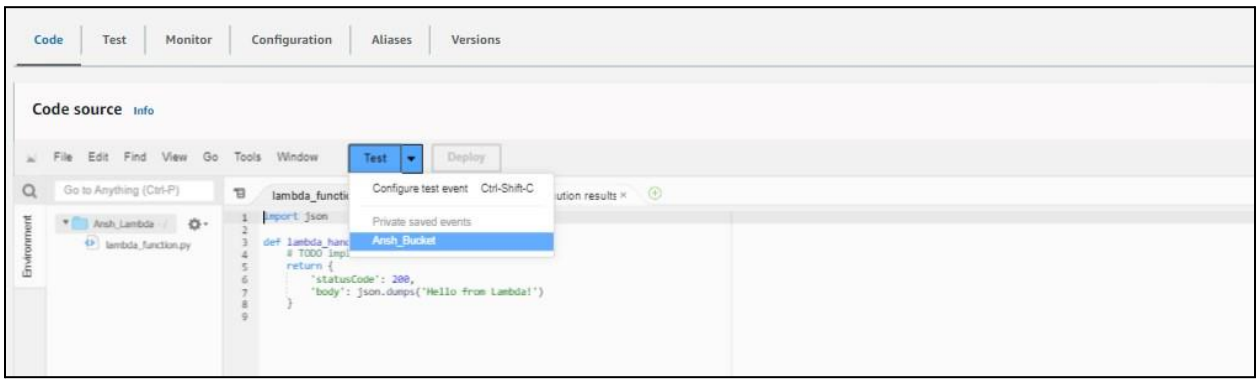




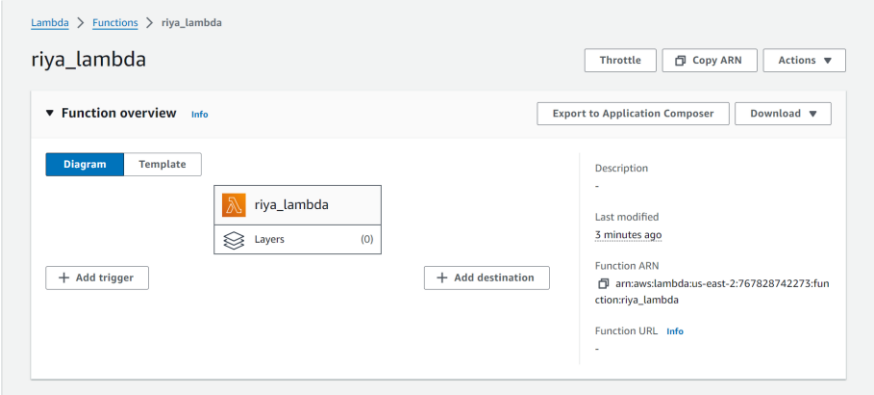
Step 4: Now Click on the Test tab then select Create a new event, give a name to the event and select Event Sharing to private, and select s3 put template.



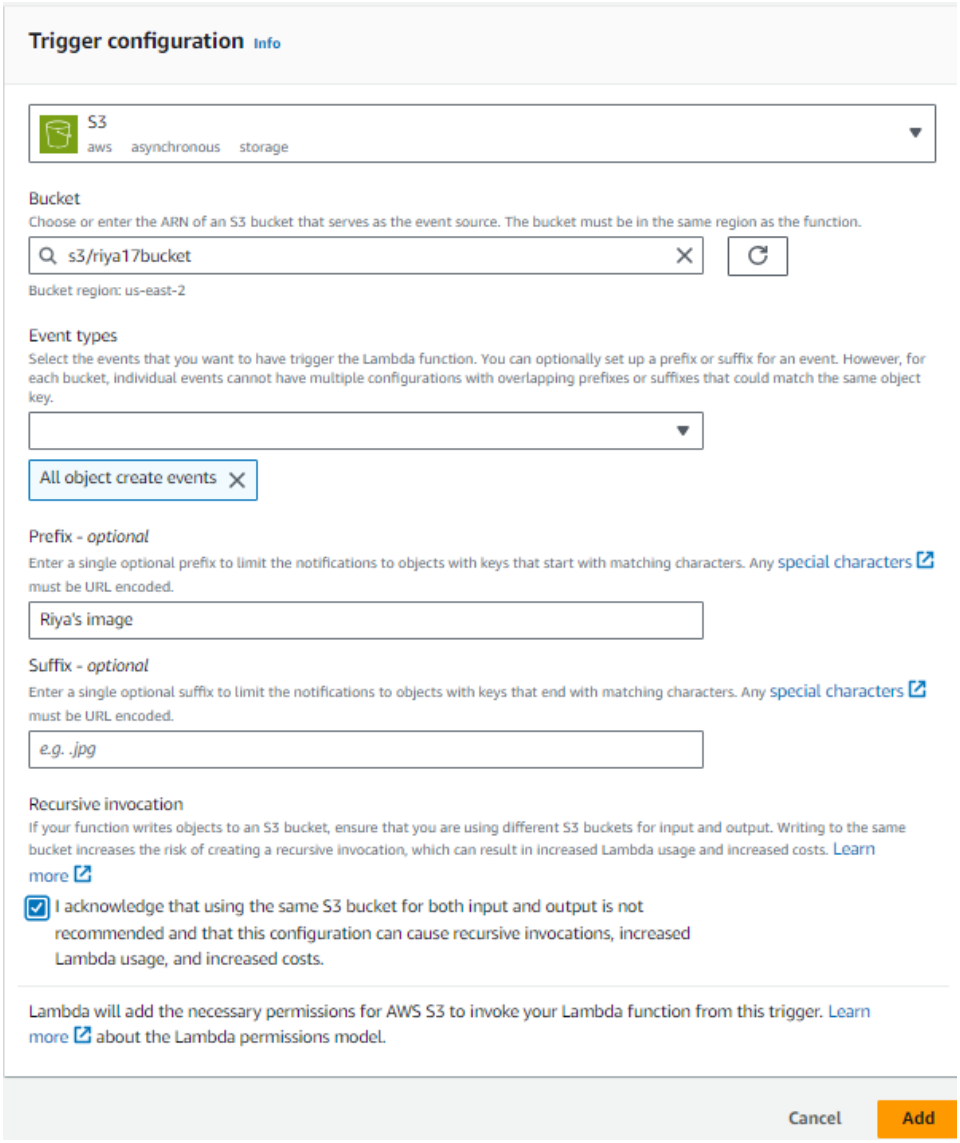
Step 5: Now In Code section select the created event from the dropdown .

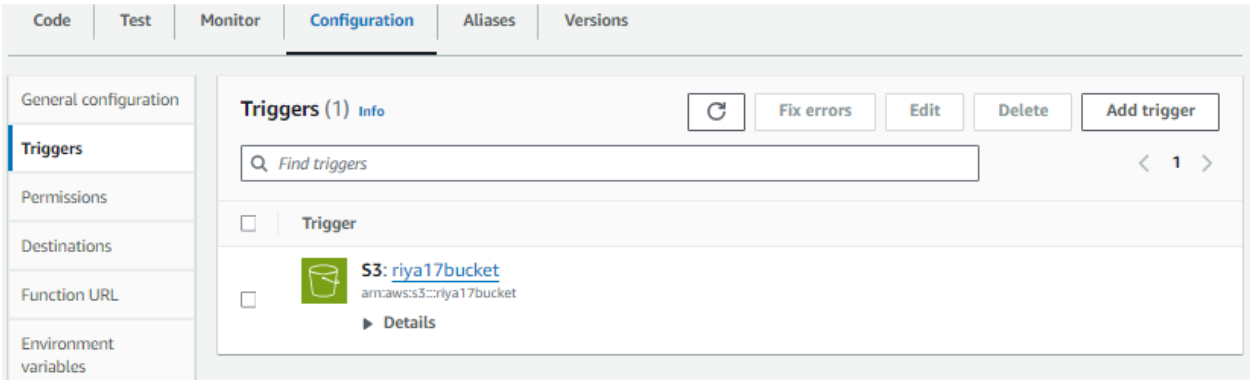


Step 6: Now In the Lambda function click on add tigger.

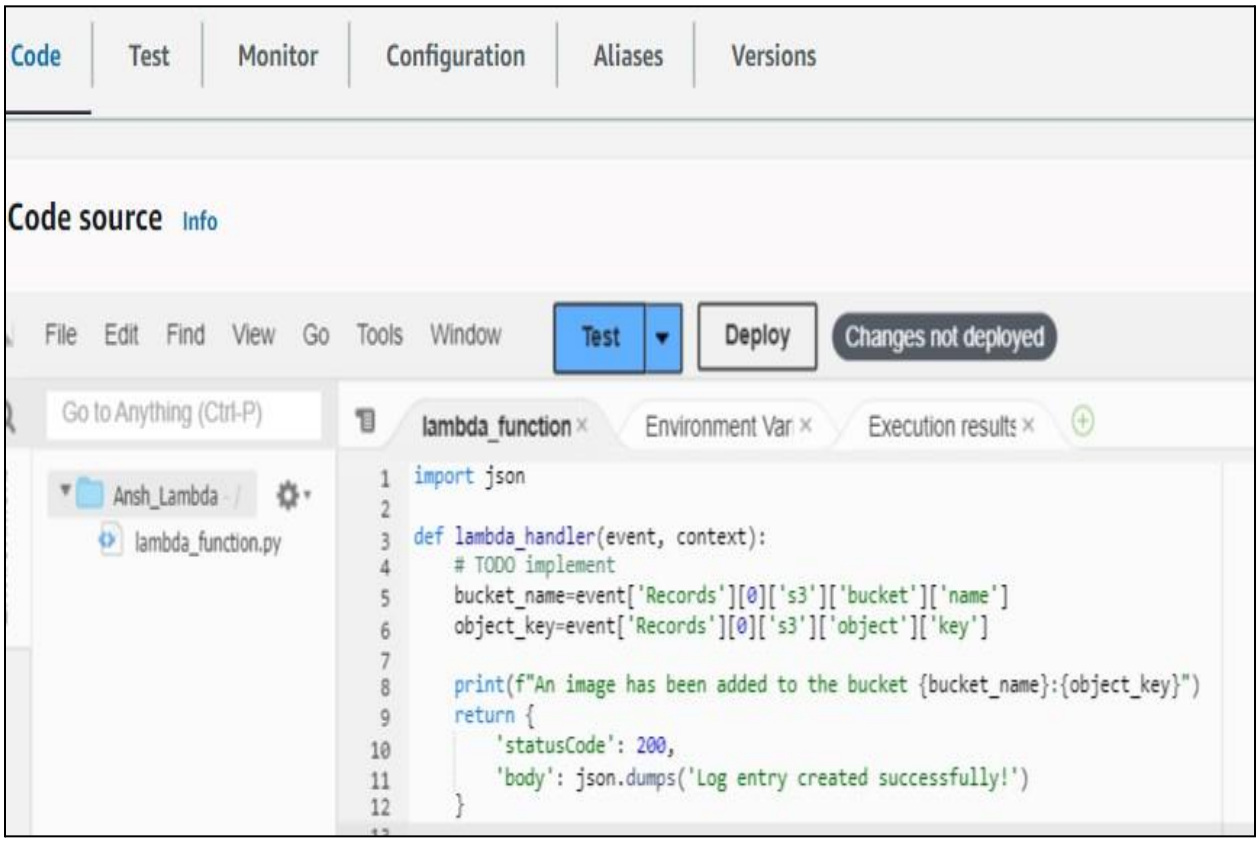


Now select the source as S3 then select the bucket name from the dropdown, keep other things to default and also you can add prefix to image.





Step 7: Now Write code that logs a message like “An Image has been added” when triggered. Save the file and click on deploy



Step 8: Now upload any image to the bucket

Upload Info

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. Learn more

Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.

Files and folders (1 Total, 26.6 KB)

Remove | Add files | Add folder

All files and folders in this table will be uploaded.

Find by name

1

Name	Folder	Type	Size
Screenshot 2…	-	image/png	26.6 KB

Destination Info

Destination

s3://riya17bucket

▶ **Destination details**

Bucket settings that impact new objects stored in the specified destination.

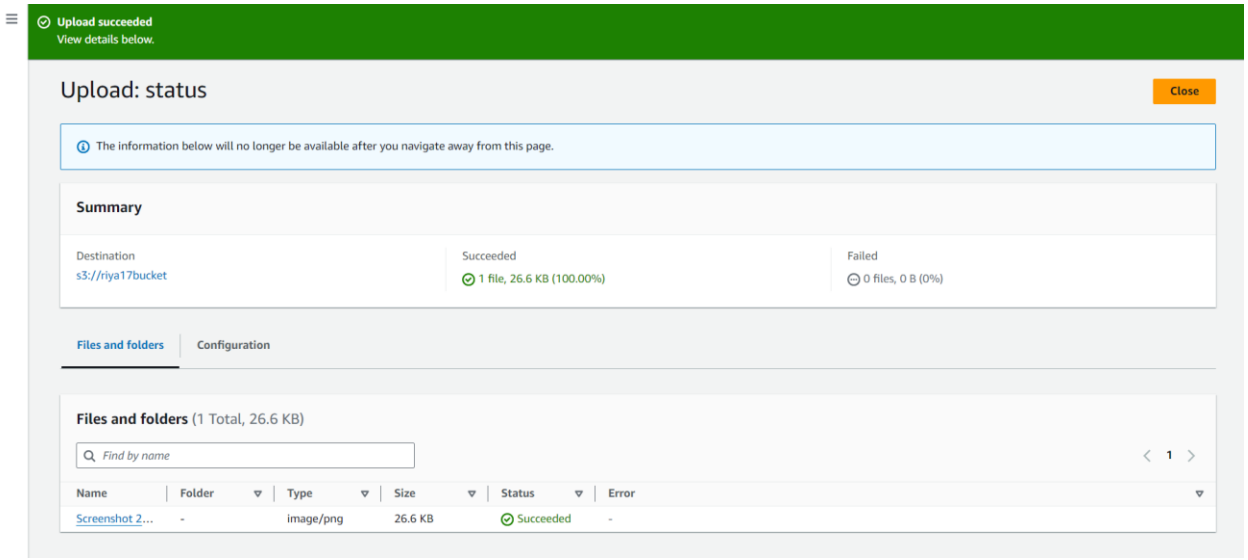
▶ **Permissions**

Grant public access and access to other AWS accounts.

▶ **Properties**

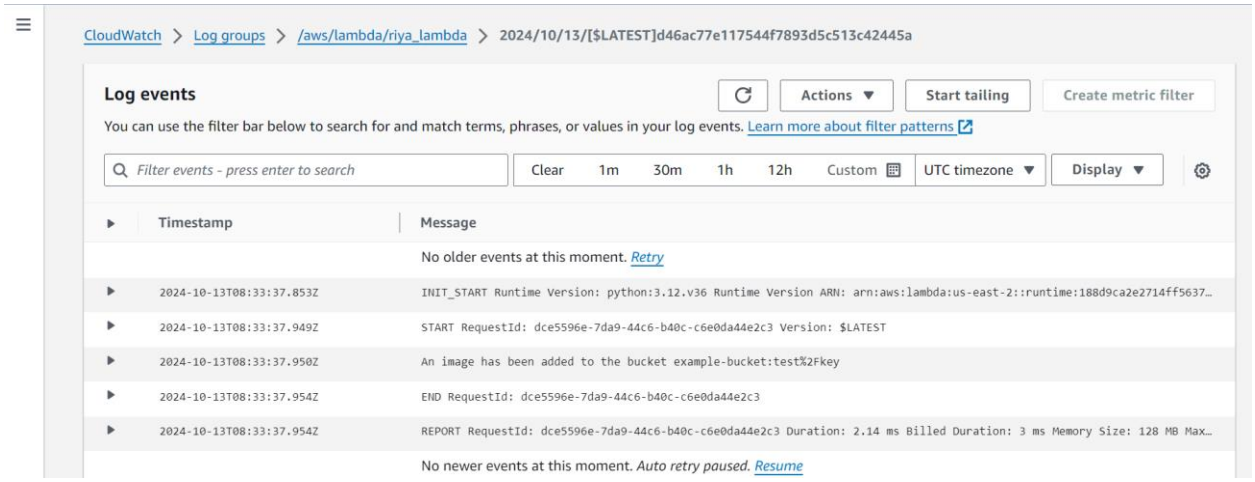
Specify storage class, encryption settings, tags, and more.

Cancel | Upload



Step 10: Now to click on test in lambda to check whether it is giving log when image is added to S3.

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


CloudWatch > Log groups > /aws/lambda/riya_lambda > 2024/10/13/[$LATEST]d46ac77e117544f7893d5c513c42445a
Log events
Actions
Start tailing
Create metric filter
You can use the filter bar below to search for and match terms, phrases, or values in your log events. Learn more about filter patterns
Filter events - press enter to search
Clear
1m
30m
1h
12h
Custom
UTC timezone
Display
Timestamp
Message
No older events at this moment. Retry
2024-10-13T08:33:37.853Z INIT_START Runtime Version: python:3.12.v36 Runtime Version ARN: arn:aws:lambda:us-east-2::runtime:188d9ca2e2714ff5637…
2024-10-13T08:33:37.949Z START RequestId: dce5596e-7da9-44c6-b40c-c6e0da44e2c3 Version: $LATEST
2024-10-13T08:33:37.950Z An image has been added to the bucket example-bucket:test%2Fkey
2024-10-13T08:33:37.954Z END RequestId: dce5596e-7da9-44c6-b40c-c6e0da44e2c3
2024-10-13T08:33:37.954Z REPORT RequestId: dce5596e-7da9-44c6-b40c-c6e0da44e2c3 Duration: 2.14 ms Billed Duration: 3 ms Memory Size: 128 MB Max…
No newer events at this moment. Auto retry paused. Resume