



Semester: V  
Academic Year: 2024-25  
Class / Branch: TE IT  
Subject: Advanced Devops Lab (ADL)  
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## EXPERIMENT NO. 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

### Theory:

#### Creating S3 Bucket

Account snapshot - updated every 24 hours [All AWS Regions](#) [View Storage Lens dashboard](#)  
Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

General purpose buckets | Directory buckets

General purpose buckets (1) [Info](#) [All AWS Regions](#) [Refresh](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

Buckets are containers for data stored in S3.

Name	AWS Region	IAM Access Analyzer	Creation date
<a href="#">storage2108</a>	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	August 21, 2024, 12:07:32 (UTC+05:30)

Upload succeeded  
View details below.

Summary

Destination s3://storage2108	Succeeded 1 file, 6.1 KB (100.00%)	Failed 0 files, 0 B (0%)
---------------------------------	---------------------------------------	-----------------------------

Files and folders | Configuration

Files and folders (1 Total, 6.1 KB)

Name	Folder	Type	Size	Status	Error
<a href="#">download.jp..</a>	-	Image/jpeg	6.1 KB	Succeeded	-



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Owner

ojaspatrikar78

AWS Region

US East (N. Virginia) us-east-1

Last modified

August 21, 2024, 12:10:36 (UTC+05:30)

Size

6.1 KB

Type

jpg

Key

download.jpg

S3 URI

s3://storage2108/download.jpg

Amazon Resource Name (ARN)

arn:aws:s3:::storage2108/download.jpg

Entity tag (Etag)

c2473a3433ee183fccb62722b4d354e8

Object URL

<https://storage2108.s3.amazonaws.com/download.jpg>

### Object management overview

The following bucket properties and object management configurations impact the behavior of this object.

Bucket properties

Management configurations

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IAM > Roles > LambdaRole21

## LambdaRole21

Info

Delete

Allows Lambda functions to call AWS services on your behalf.

Summary

Edit

Creation date

August 21, 2024, 12:20 (UTC+05:30)

Last activity

-

ARN

arn:aws:iam::058264460587:role/LambdaRole21

Maximum session duration

1 hour

Permissions

Trust relationships

Tags

Access Advisor

Revoke sessions

Permissions policies (3)

Info

Simulate

Remove

Add permissions

You can attach up to 10 managed policies.

Filter by Type

Search

All types

< 1 >

Policy name

Type

Attached entities



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Lambda > Functions > my-funccc-ojas

my-funccc-ojas

Throttle Copy ARN Actions

✓ The trigger storage2108 was successfully added to function my-funccc-ojas. The function is now receiving events from the trigger.

Function overview Info

Export to Application Composer Download

Diagram Template

my-funccc-ojas

Layers (0)

S3

+ Add trigger

+ Add destination

Description

Last modified 3 minutes ago

Function ARN `arn:aws:lambda:us-east-1:058264460587:function:my-funccc-ojas`

Function URL [Info](#)

Code Test Monitor Configuration Aliases Versions

Activities Screenshot Wed 12:32

download.jpg - Object in x Roles | IAM | Global my-funccc-ojas | Function

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/my-funccc-ojas?tab=configure

aws Services Search [Alt+S]

+ Add trigger

Code Test Monitor Configuration Aliases

General configuration

Triggers

Permissions

Destinations

Function URL

Environment variables

Tags

VPC

RDS databases

Monitoring and operations tools

Triggers (1) Info

Find triggers

Trigger

S3: storage

arn:aws:s3::sto

Details

Take Screenshot

Cancel Take Screenshot

Grab the whole screen

Grab the current window

Select area to grab

Grab after a delay of 4 seconds

Effects

Include pointer

Include the window border

Apply effect: None

Fix errors Edit Delete Add trigger

< 1 >

CloudShell Feedback

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Activities Google Chrome Wed 12:34

download.jpg - Object in x Roles | IAM | Global x my-funccc-ojas | Function x +

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/my-funccc-ojas?tab=code

aws Services Search [Alt+S]

The test event myevent1 was successfully saved.

+ Add trigger

-funccc-ojas  
Function URL Info

Code Test Monitor Configuration Aliases Versions

Code source Info Upload from

File Edit Find View Go Tools Window Test Deploy

Go to Anything (Ctrl-P)

Environment my-funccc-ojas lambda\_function.py

Execution results Status: Succeeded Max memory used: 32 MB Time: 2.52 ms

Test Event Name myevent1

Response  
{  
 "statusCode": 200,  
 "body": "\\Hello from Lambda!"  
}

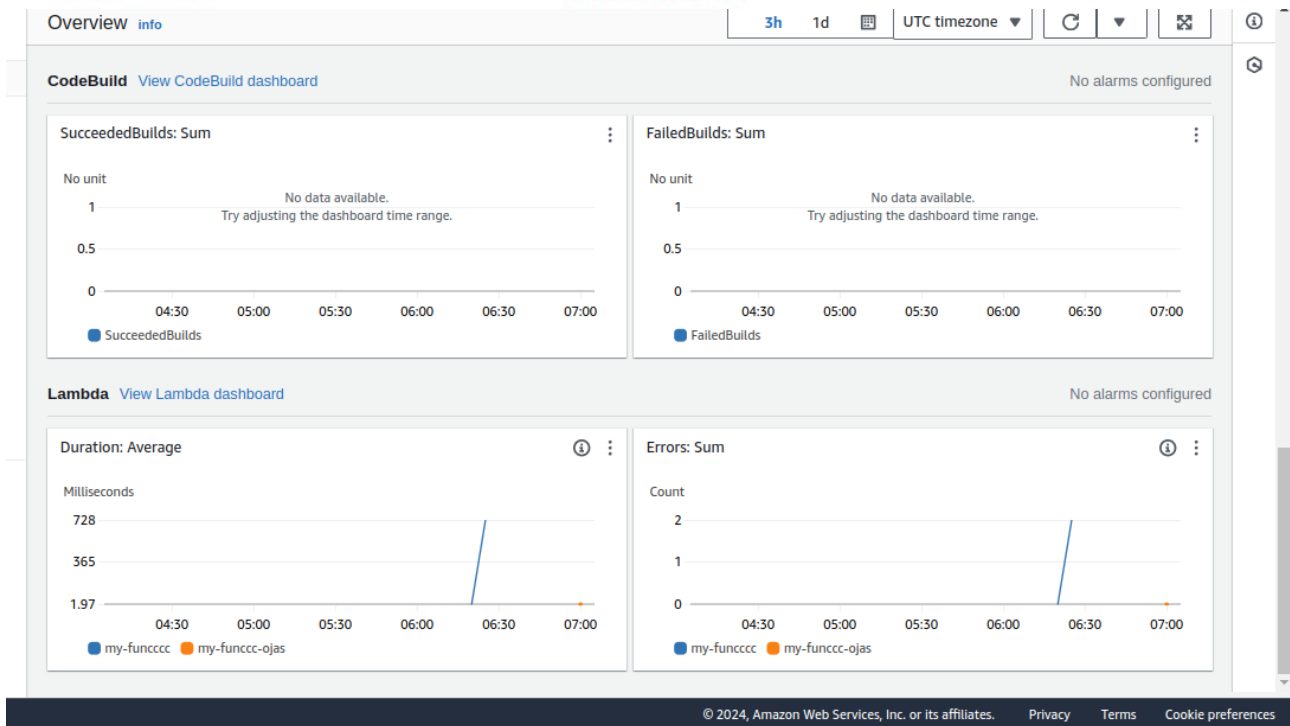
Function Logs  
START RequestId: a8de45ba-b5dd-46d2-8c8d-22b0e2f75a35 Version: \$LATEST  
END RequestId: a8de45ba-b5dd-46d2-8c8d-22b0e2f75a35  
REPORT RequestId: a8de45ba-b5dd-46d2-8c8d-22b0e2f75a35 Duration: 2.52 ms Billed Duration: 3 ms Memory Size: 128 MB Max Memory Used: 32 MB Init Duration: 97.98 ms

Request ID a8de45ba-b5dd-46d2-8c8d-22b0e2f75a35

https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/my-funccc-ojas?tab=aliases © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences



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**Conclusion:** in this experiment we have created storage bucket ,lambda role, function role create a Lambda function which will log “An Image has been added” once you add an object to a specific bucket in S3