Task

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Project Overview

This project demonstrates the integration of **AWS Lambda** with **Amazon S3** to automatically process uploaded files.
A Lambda function is triggered whenever a new file is uploaded to a specific S3 bucket, and the results are logged in **CloudWatch**.

Steps Performed

1. **Lambda Function Creation**

- Created a new **AWS Lambda** function.

- Configured it to handle events triggered by **Amazon S3**.

- Updated **IAM policies** to grant required permissions for:

    o Reading from S3.

    o Writing logs to CloudWatch.

2. **S3 Trigger Configuration**

- Added the S3 bucket as an **event source** for the Lambda function.

- Set the trigger to activate on **ObjectCreated** events.

3. **Testing the Setup**

- Uploaded an image file to the S3 bucket.

- Lambda function executed automatically.

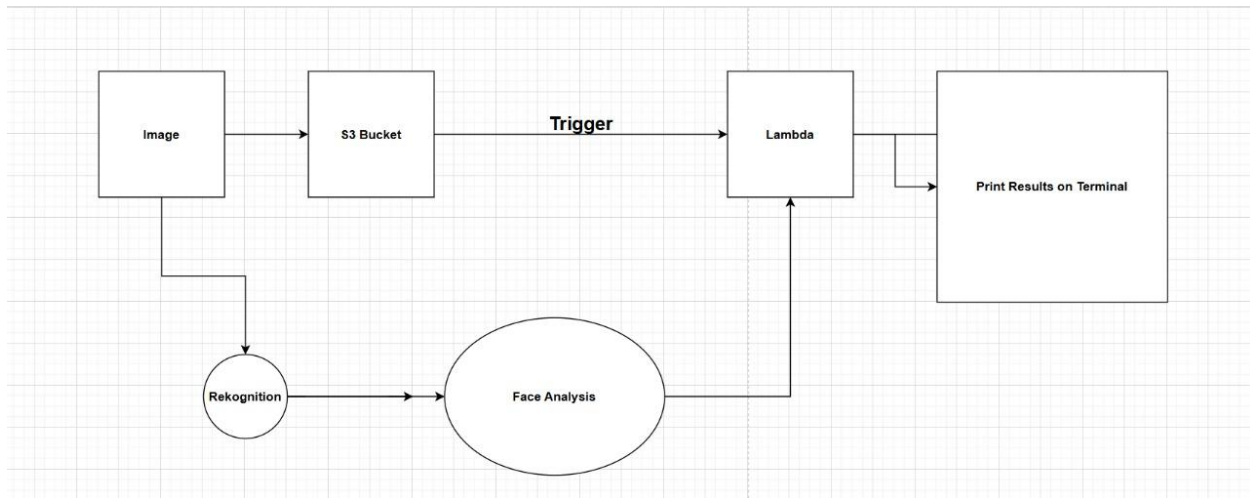- Output successfully printed in **CloudWatch Logs**.

Results

- Lambda was triggered automatically upon file upload.

- Log outputs were visible in the **CloudWatch Console**.

- Demonstrated event-driven automation between **S3** and **Lambda**.

Technologies Used

- **AWS Lambda**

- **Amazon S3**

- **AWS IAM**

- **Amazon CloudWatch**

Architecture:

1.Created a lambda function and added s3 bucket as a trigger and update necessary IAM policy

2.Uploaded image in the bucket, lambda function is triggered and output is printed in the CloudWatch console logs

CloudWatch

Favorites and recents

Dashboards

▶ AI Operations New

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In alarm

All alarms

Billing

▼ Logs

Log groups

Log Anomalies

Live Tail

Logs Insights

Contributor Insights

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(APM)

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Log events

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 ↗

Actions ▼   Start tailing   Create metric filter

| Clear | 1m | 30m | 1h | 12h | Custom 🗓 |

UTC timezone ▼   Display ▼

	Timestamp	Message
▶	2025-07-20T16:13:52.695Z	Processing uploaded image: s3://mybuckettttt4227/Gollapalli NagaRamaLakshmiJayanthi1.png
▶	2025-07-20T16:13:53.198Z	Face 1:
▶	2025-07-20T16:13:53.198Z	Gender: Female (99.99%)
▶	2025-07-20T16:13:53.198Z	Age Range: 13 - 21
▶	2025-07-20T16:13:53.198Z	Emotions:
▶	2025-07-20T16:13:53.198Z	- CALM (99.72%)
▶	2025-07-20T16:13:53.198Z	- CONFUSED (0.08%)
▶	2025-07-20T16:13:53.198Z	- ANGRY (0.03%)
▶	2025-07-20T16:13:53.198Z	- SURPRISED (0.02%)
▶	2025-07-20T16:13:53.198Z	- DISGUSTED (0.02%)
▶	2025-07-20T16:13:53.198Z	- HAPPY (0.01%)
▶	2025-07-20T16:13:53.215Z	- SAD (0.01%)
▶	2025-07-20T16:13:53.215Z	- FEAR (0.00%)
▶	2025-07-20T16:13:53.215Z	Smile: False (99.12%)
▶	2025-07-20T16:13:53.217Z	END RequestId: a9636343-4383-498a-a884-fe668bd084ab
▶	2025-07-20T16:13:53.217Z	REPORT RequestId: a9636343-4383-498a-a884-fe668bd084ab Duration: 531.77 ms Billed Duration: 532 ms Memory Size: 128 MB Max Memory Used: 86 MB

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