



AWS Lab 32

Lambda

Overview of the lab

In this lab you will learn how to create and run a lambda function

Lambda

AWS Lambda is a serverless computing service that runs your code automatically in response to events, scaling as needed, without managing servers.

Function

The code you want to run in response to events.

Handler

The entry point in your code that AWS Lambda executes.

Event Source

The AWS service or custom application that triggers the Lambda function.

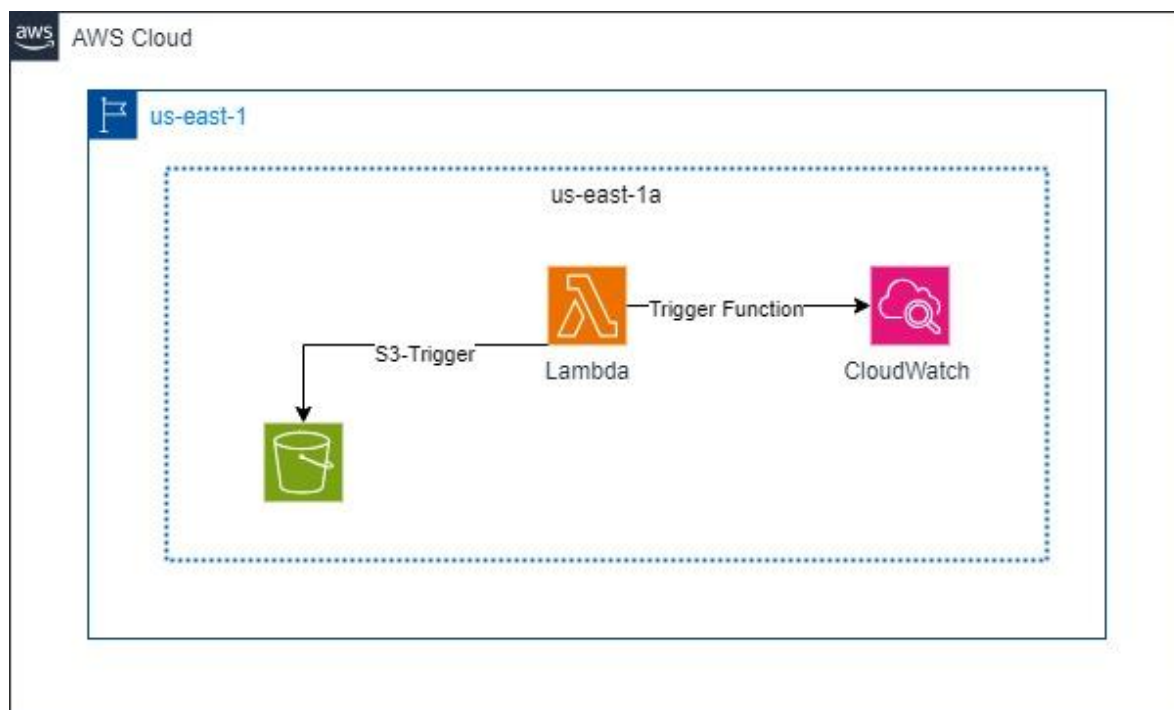
Execution Role

An IAM role that grants permissions for Lambda to access AWS resources.

Runtime

The language environment that Lambda uses to execute your function (e.g., Python, Node.js).

Architecture



Step-by-Step Lab

Create a S3 bucket as lambda trigger

1. Search for S3 and in S3 management console click on [Create Bucket](#)
 - a. Bucket Type – [General Purpose](#)
 - b. Bucket Name – [s3-trigger123](#)
 - c. [Uncheck](#) block all public access & [acknowledge](#)
2. Click on [Create Bucket](#)

Create a lambda function

3. Search for Lambda and in Lambda Management Console click on [Create Function](#)
 - a. Select [Author from Scratch](#)
 - b. Function Name – [s3-trigger](#)
 - c. Runtime – [Python 3.13](#) (latest code editor language sdk package)
 - d. Architecture – [x86_64](#)
 - e. Execution Role
 - i. Create a [new role from Aws Policy Template](#)
 - ii. Role Name – [select s3-ReadOnly permissions S3](#)
4. Click on [Create Function](#)

Add a trigger for Lambda

5. In Lambda Management Console Click on [Created Function](#)
 6. Next Click on [Add Trigger](#)
 7. Select a Source – [S3](#)
 - a. Bucket – [select the bucket](#) which we created initially
 - b. Even types – [POST](#)
 - c. Prefix – [Optional](#) (when we need to invoke the Lambda Function if a particular file with the [name](#) mentioned above is uploaded)
 - d. Suffix – [Optional](#) (when we need to invoke the Lambda Function if a particular [filetype](#) mentioned above is uploaded)
 - e. Recursive invocation – [Acknowledge](#)
 8. Click on [Add trigger](#)
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Try Adding a file to the S3 bucket (we have created)

9. In S3 Management console click on the [Bucket name](#) (we have created)
10. Go to [Objects](#) and Click on [Upload](#) (to upload a file)
 - a. Click on [Add Files](#)
 - b. Select a file (any type of file like [.txt](#), [.docx etc](#)) & Click on [OPEN](#)
11. Click On [Upload](#)

Try checking if Lambda function is triggered in the CloudWatch

12. Go to Lambda Management Console
13. Go to [Functions](#) and click on the [Function name](#) (that we have created)
14. Go to [Monitor](#) and click on [View CloudWatchLogs](#)
15. Now check if a [loggroup](#) is created for lambda function being triggered (when we uploaded a file to S3)
16. Check the [time](#) the loggroup is created (is the result for triggering the lambda function)

Clean Up Step

1. Select the [trigger \(we created\)](#) - Click on [Delete it](#)
 2. Next Click on [Actions](#) & [Delete the Function](#)
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