

Cloud Computing: UE20CS352

Assignment 1 - Introduction to AWS Lambda with API Gateway

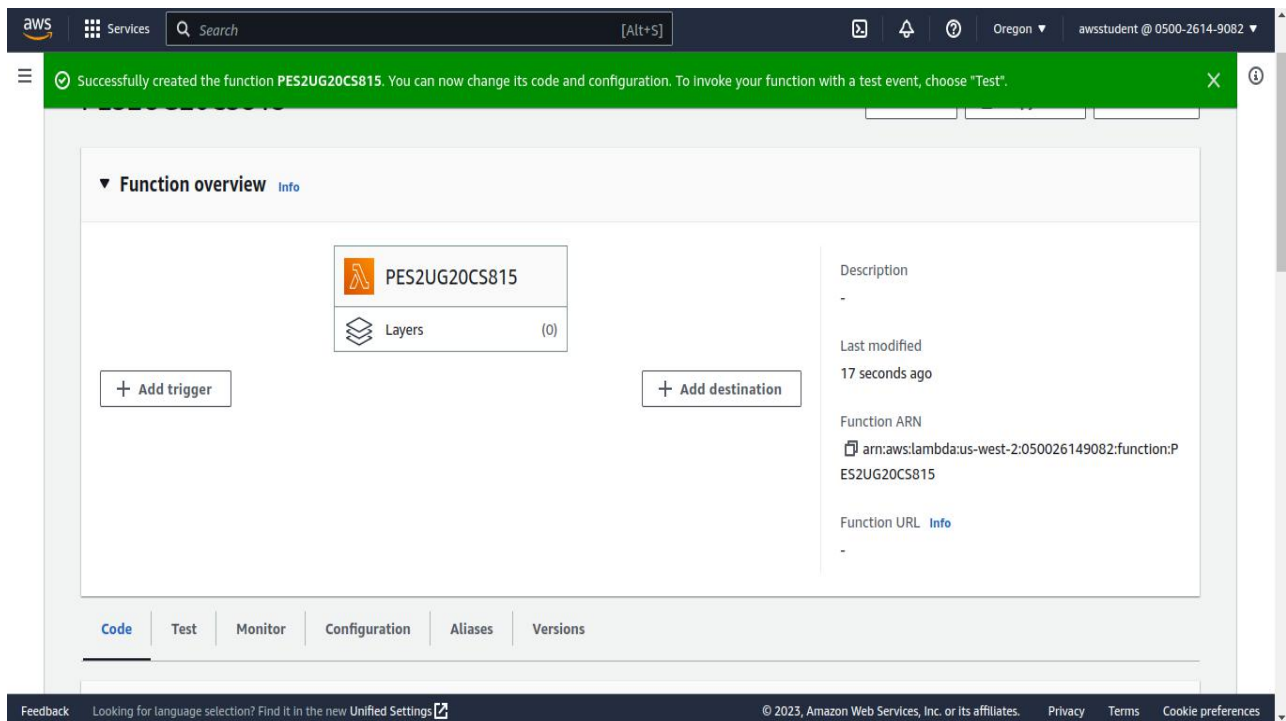
-<VIJAY J>,

Section <J>

-PES2UG20CS815

```
// Screenshots here are deliberately black screens; fill these in with your own.
```

1a: Lambda Function Created



1b: API Gateway created, trigger added

The screenshot shows the AWS Lambda console for function **PES2UG20CS815**. The **Configuration** tab is selected, and the **Triggers** section is expanded. A single trigger is configured:

- Trigger:** API Gateway: PES2UG20CS815-API
- API endpoint:** <https://0teqje23q0.execute-api.us-west-2.amazonaws.com/default/PES2UG20CS815>

The function's ARN is `arn:aws:lambda:us-west-2:050026149082:function:PES2UG20CS815`. The function URL is also displayed.

1c: Modified Lambda function

The screenshot shows the AWS Lambda console for function **PES2UG20CS815**. The **Code source** tab is selected, displaying the Python code for the `lambda_handler` function. The code is as follows:

```
1 import json
2 import base64, csv, io
3 from statistics import mean
4
5
6 def lambda_handler(event, context):
7     if event['httpMethod'] == 'GET':
8         val = event['queryStringParameters']['key']
9         return {
10             'statusCode': 200,
11             'body': json.dumps(f"PES2UG20CS815: {val}")
12         }
13
14
15 elif event['httpMethod'] == 'POST':
16     base64csv = event["body"]
17     if base64csv == None:
18         return {
19             'statusCode': 200,
20             'body': json.dumps("No CSV found.")
```

1d: Successful Postman GET request

HomeWorkspacesAPI NetworkExplore

Search Postman

Invite

Upgrade

My Workspace

NewImport

Overview

GET https://0teqje23q0.exe

No Environment

Collections

APIs

Environments

Mock Servers

Monitors

Flows

History

My first collection

First folder inside collection

Second folder inside collection

Create a collection for your requests

A collection lets you group related requests and easily set common authorization, tests, scripts, and variables for all requests in it.

Create Collection

https://0teqje23q0.execute-api.us-west-2.amazonaws.com/default/PES2UG20CS815?key=anything

Save

GET

https://0teqje23q0.execute-api.us-west-2.amazonaws.com/default/PES2UG20CS815?key=anything

Send

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

KEY	VALUE	DESCRIPTION		Bulk Edit
<input checked="" type="checkbox"/> key	anything			
Key	Value	Description		

Body

Cookies

Headers (5)

Test Results

Status: 200 OK

Time: 2.31 s

Size: 196 B

Save Response

Pretty

Raw

Preview

Visualize

Text

1

"PES2UG20CS815: anything"

Online

Console

Cookies

Auto-select agent

Runner

Trash

Continue learning

1e: Successful Postman POST request

The screenshot shows the Postman interface with a POST request to `https://0teqje23q0.execute-api.us-west-2.amazonaws.com/default/PES2UG20CS815?key=anything`. The request is configured with the following details:

- Method:** POST
- URL:** `https://0teqje23q0.execute-api.us-west-2.amazonaws.com/default/PES2UG20CS815?key=anything`
- Body:** Form-data (selected), containing a single key-value pair: `4PGAtd6QG/times.csv`.
- Status:** 200 OK
- Time:** 712 s
- Size:** 263 B

The response body is displayed in the 'Body' tab, showing a JSON object:

```
1 { 'Inno': 12.93258, 'Vation': 18.99218, 'Lab': 16.91436, 'Hashco': 16.09154, 'Deleven': 11.008 }
```

1f: Failed Postman PUT/DELETE/HEAD request

The screenshot shows the Postman interface with a PUT request to `https://0teqje23q0.execute-api.us-west-2.amazonaws.com/default/PES2UG20CS815?key=anything`. The request is configured with the following details:

- Method:** PUT
- URL:** `https://0teqje23q0.execute-api.us-west-2.amazonaws.com/default/PES2UG20CS815?key=anything`
- Body:** Form-data (selected), containing a single key-value pair: `4PGAtd6QG/times.csv`.
- Status:** 200 OK
- Time:** 14.90 s
- Size:** 200 B

The response body is displayed in the 'Body' tab, showing a text message:

```
1 "Only GET and POST are supported"
```