



Semester: V
Academic Year: 2024-25
Class / Branch: TE IT-B
Subject: Advanced Devops Lab (ADL)
Name of Instructor: Prof. Manjusha Kashilkar

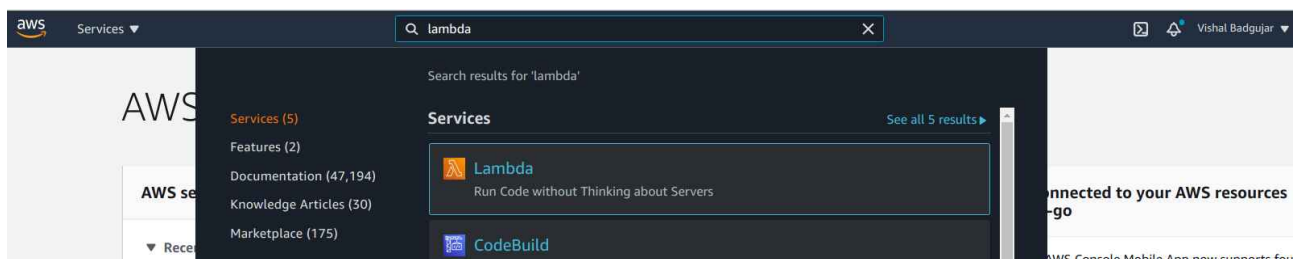
Name of Student: Harsh Prajapati
Student ID: 22104188

EXPERIMENT NO. 11

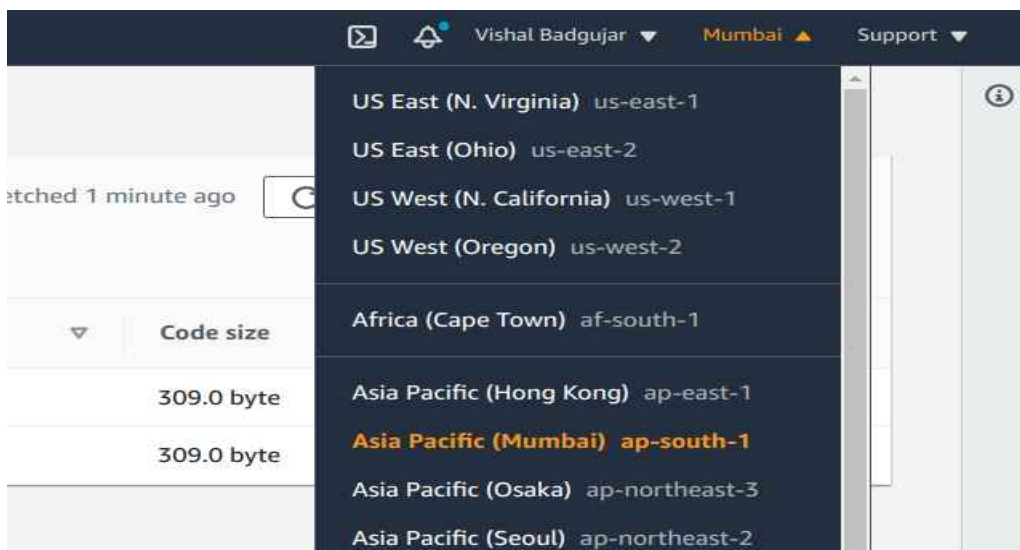
Aim: To understand AWS Lambda, its workflow, various functions and create your first Lambda functions using Python / Java / Nodejs.

Steps: First Lambda functions using Python

1. Open Aws Console and search for Lambda Service and open home screen of Lambda.



2. Choose region in which you need to create Lambda function as it is region specific.





3. Create sum as a Lambda Function in Python Language so select latest version of Python and choose role with basic Lambda Permission to allow cloudwatch for monitoring.

[Lambda](#) > [Functions](#) > Create function

Create function [Info](#)

Choose one of the following options to create your function.

☒ **Author from scratch**
Start with a simple Hello World example.

☐ **Use a blueprint**
Build a Lambda application from sample code and configuration presets for common use cases.

☐ **Container image**
Select a container image to deploy for your function.

Basic information

Function name
Enter a name that describes the purpose of your function.

lambdaharsh

Use only letters, numbers, hyphens, or underscores with no spaces.

Runtime [Info](#)
Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.

Python 3.12

Architecture [Info](#)
Choose the instruction set architecture you want for your function code.

☒ x86_64

☐ arm64



4. Lambda sum function is created successfully

Successfully created the function **lambdaharsh**. You can now change its code and configuration. To invoke your function with a test event, choose "Test".

lambdaharsh

Throttle Copy ARN Actions

Function overview

Diagram Template

lambdaharsh

Layers (0)

+ Add trigger

+ Add destination

Description

Last modified: 19 seconds ago

Function ARN: arn:aws:lambda:us-east-1:058264448436:func:lambdaharsh

Function URL: [Info](https://lambda.us-east-1.amazonaws.com/functions/lambdaharsh?newFunction=true&tab=code)

Code Test Monitor Configuration Aliases Versions

Code source

Upload from

CloudShell Feedback

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Learn how to implement common use cases in AWS Lambda.

Create a simple web app

In this tutorial you will learn how to:

- Build a simple web app, consisting of a Lambda function with a function URL that outputs a webpage
- Invoke your function through its function URL

[Learn more](#)

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5. Write a sample python code for sum of two numbers:



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Successfully updated the function lambdaharsh.

Code source

File Edit Find View Go Tools Window Test Deploy

Go to Anything (Ctrl-P)

Environment

lambdaharsh - /

lambdaharsh.py

Execution results

Status: Succeeded Max memory used: 32 MB Time: 2.78 ms

A function update is still in progress so the invocation went to the previously deployed version.

Test Event Name

myevent2

Response

```
{
  "statusCode": 200,
  "body": "{\"result\": 701}"
}
```

Function Logs

START RequestId: 25aece15-16bb-4fd3-8f7c-f36252cb4875 Version: \$LATEST
END RequestId: 25aece15-16bb-4fd3-8f7c-f36252cb4875
REPORT RequestId: 25aece15-16bb-4fd3-8f7c-f36252cb4875 Duration: 2.78 ms Billed Duration: 3 ms

Request ID

Code properties

Package size

270 byte

SHA256 hash

7cayBH4RZPbAey5rSfSXAopVd
nFisZ9grcFFPQlrMs=

Last modified

August 21, 2024 at 11:17 AM
GMT+5:30

Info Tutorials

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6. Configure Test Event in Json Format

Configure test event

A function can have up to 10 test events. The events are persisted so you can switch to another computer or web browser and test your function with the same events.

Create new test event

Edit saved test events

Event template

hello-world

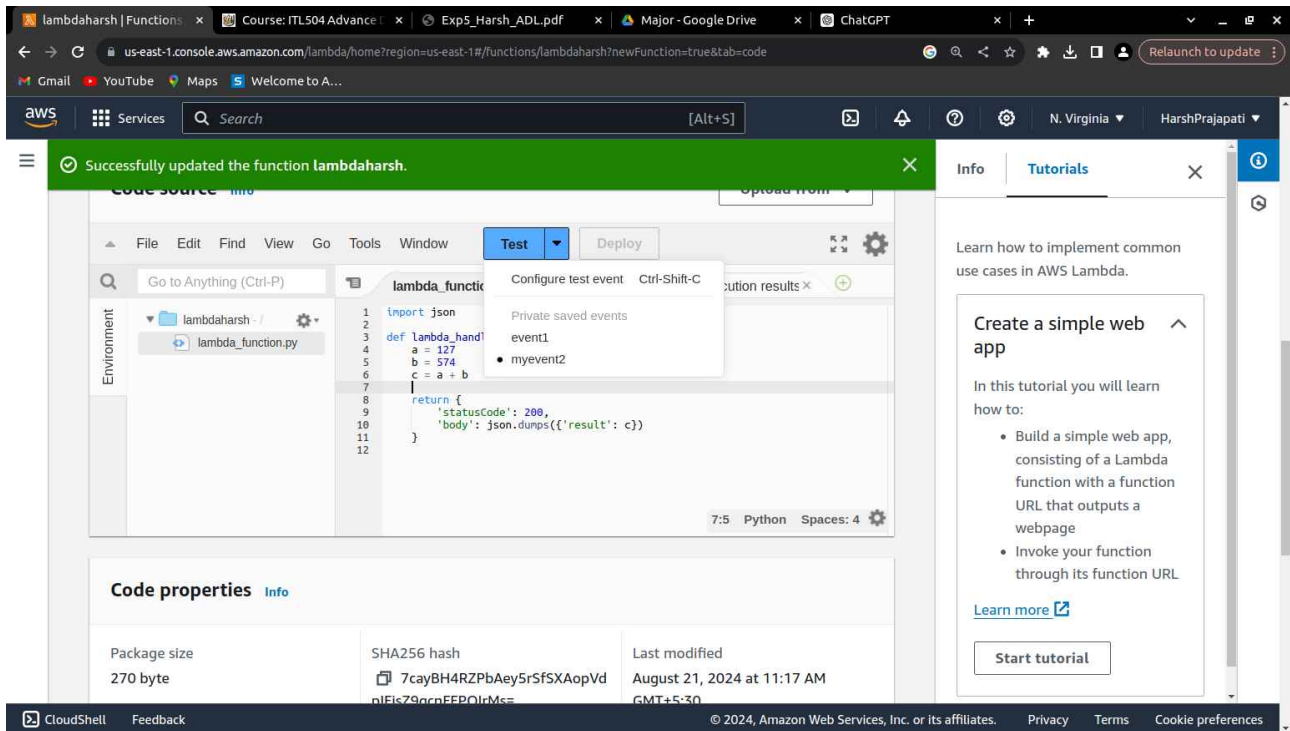
Event name

mytest1

```
1 {
2   "event": {
3     "request": {
4       "path": "/hello-world"
5     }
6   }
7 }
```



Write a sample Second sample python Code:



Configure Test Event

