



Semester: V
Academic Year: 2022-23
Class / Branch: TE IT
Subject: Advanced Devops Lab (ADL)
Name of Instructor: Prof. Manjusha Kashilkar

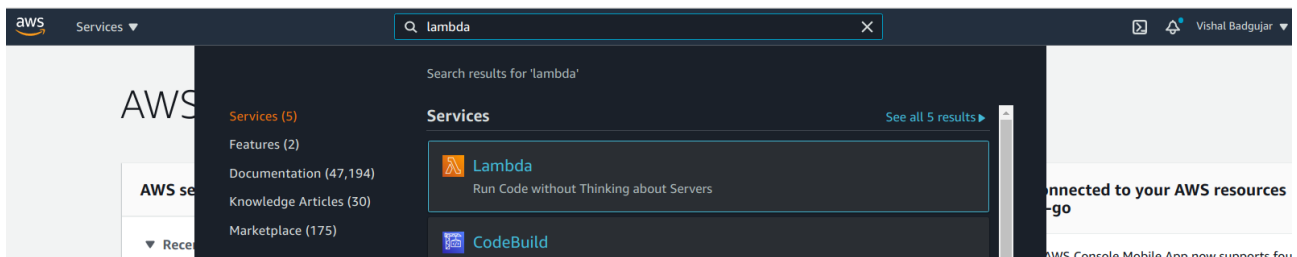
Name of Student:
Student ID:

EXPERIMENT NO. 11

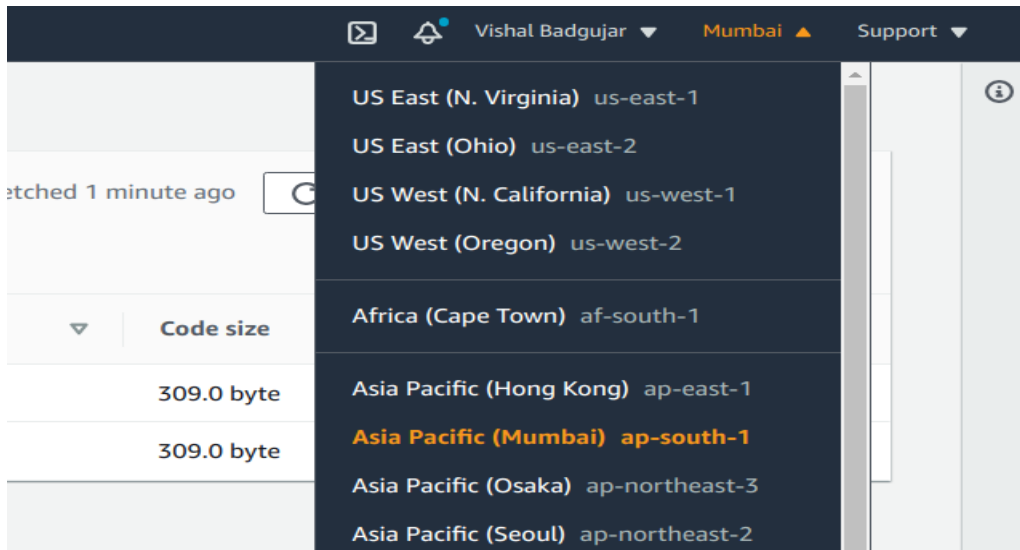
Aim: To understand AWS Lambda, its workflow, various functions and create your first Lambda functions using Python / Java / Nodejs.

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.

Browse serverless app repository ☐
Deploy a sample Lambda application from the AWS Serverless Application Repository.

Basic information

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

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.

Permissions [Info](#)
By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.

▼ Change default execution role

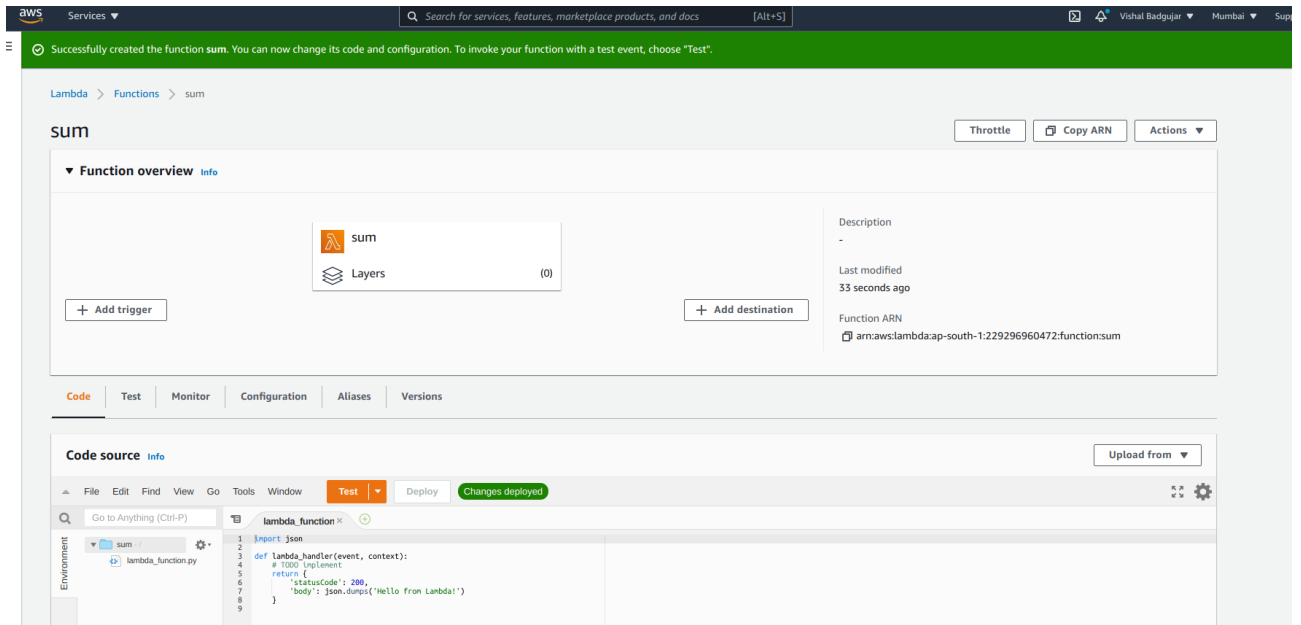
Execution role
Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).

☒ Create a new role with basic Lambda permissions
☐ Use an existing role

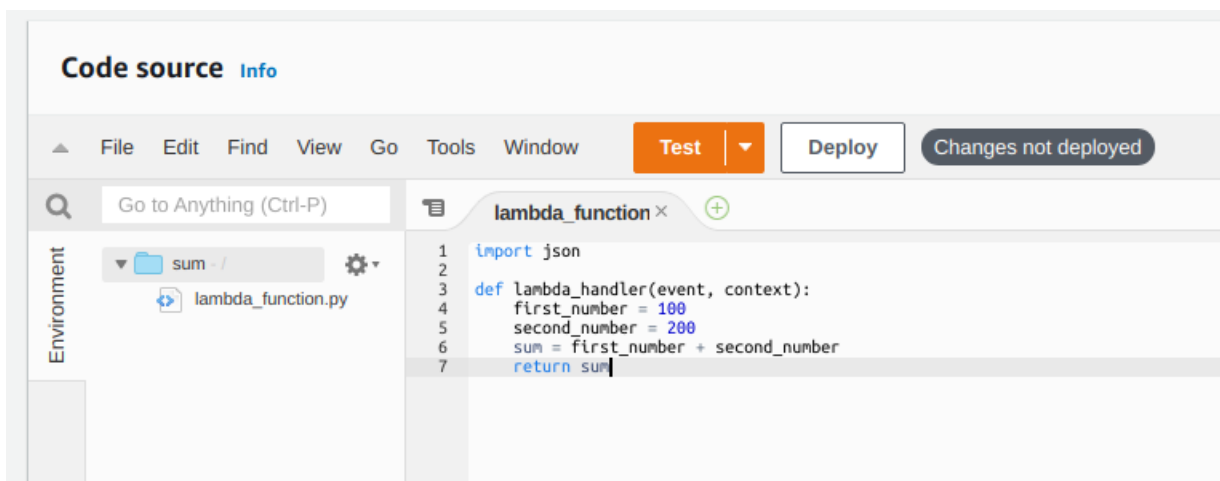
4. Lambda sum function is created successfully



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



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  
3 }
```

Code source [Info](#)

File Edit Find View Go Tools Window **Test** Deploy Changes deployed

Go to Anything (Ctrl-P)

Environment

- sum /
 - sum1.py

sum1.py Execution result +

Execution results

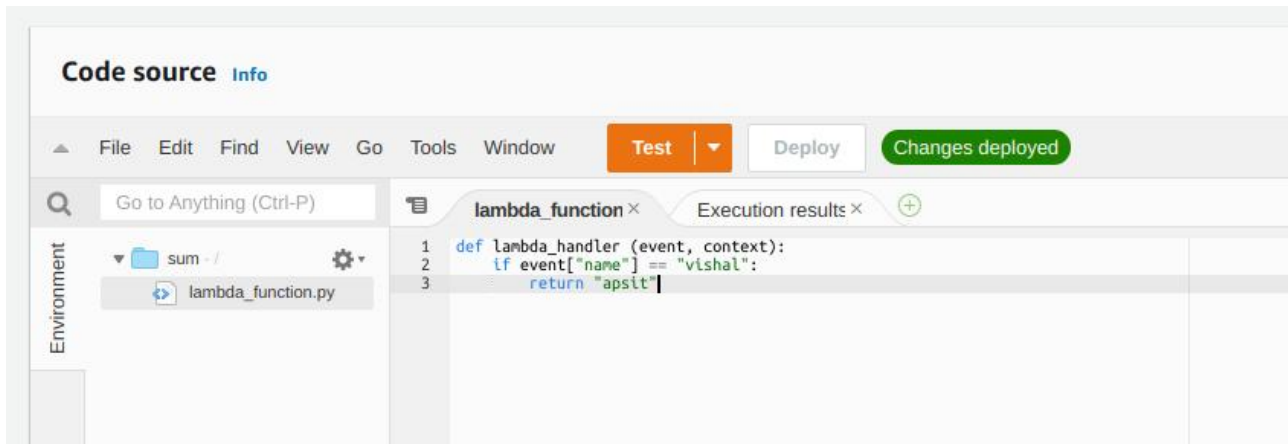
Test Event Name
sum

Response
300

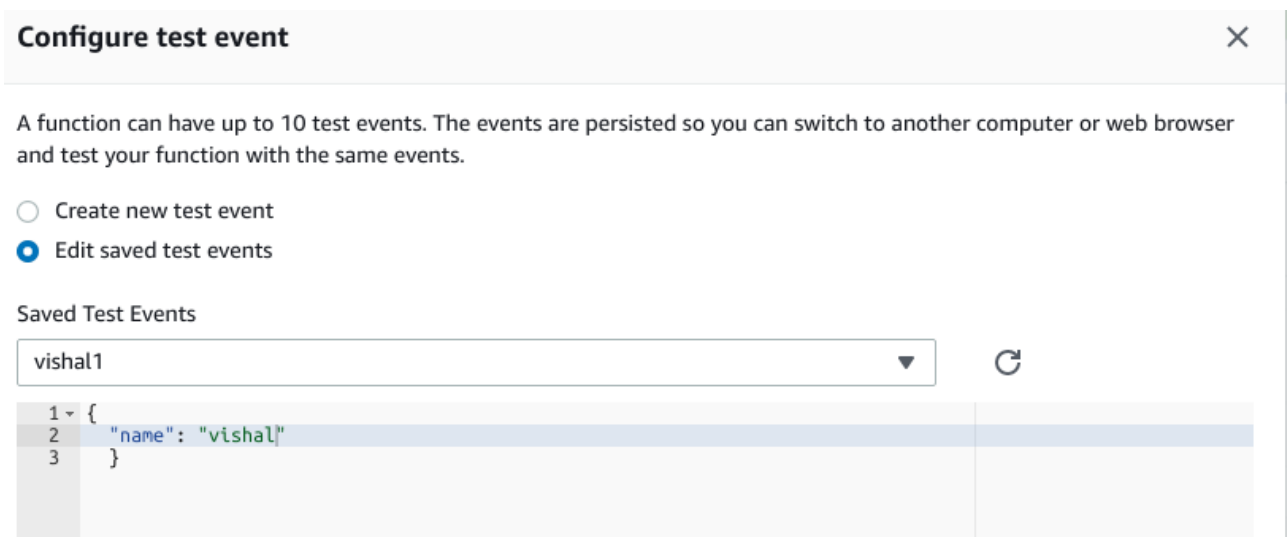
Function Logs
START RequestId: bc4cb31a-e6ff-42e3-8804-0e3d78afa7d6 Version: \$LATEST
END RequestId: bc4cb31a-e6ff-42e3-8804-0e3d78afa7d6
REPORT RequestId: bc4cb31a-e6ff-42e3-8804-0e3d78afa7d6 Duration: 1.07 ms Billed Duration: 2 ms Memory Size: 128 MB Max Memory Used: 51 MB Init Duration: 125.07 ms

Request ID
bc4cb31a-e6ff-42e3-8804-0e3d78afa7d6

Write a sample Second sample python Code:



Configure Test Event



If condition met returns a value as apsit



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▼ Execution results		Status: Succeeded
Test Event Name vishal1		
Response "apsit"		
Function Logs START RequestId: cddd9b6e-59b3-4457-be2b-04e4784e5c3e Version: \$LATEST END RequestId: cddd9b6e-59b3-4457-be2b-04e4784e5c3e REPORT RequestId: cddd9b6e-59b3-4457-be2b-04e4784e5c3e Duration: 1.12 ms Billed Duration: 2 ms Memory Size: 128 MB Max Memory Used: 50 MB Init Duration: 124.74 ms		
Request ID cddd9b6e-59b3-4457-be2b-04e4784e5c3e		

Conclusion: Write your own findings.