



Dhirubhai Ambani University Technology

Formerly DA-IICT

IT457 Cloud Computing

Assignment - Introduction to Serverless Computing using AWS Lambda

Group 5

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Lambda function code

The screenshot shows the AWS Lambda console interface. On the left, there's a sidebar with various icons. The main area has tabs for 'EXPLORER', 'TEST EVENTS', 'ENVIRONMENT VARIABLES', and 'DEPLOY'. Under 'TEST EVENTS', 'TestEvent1' is selected. The code editor shows a Python file named 'lambda_function.py' with the following content:

```
def lambda_handler(event, context):
    # Safely handle missing query parameters
    params = event.get('queryStringParameters') or {}
    name = params.get('name', 'Guest')
    return {
        "statusCode": 200,
        "headers": {
            "Content-Type": "application/json"
        },
        "body": f"Hello, {name}! Welcome to Serverless Computing."
    }
```

The 'DEPLOY' section contains 'Deploy (Ctrl+Shift+U)' and 'Test (Ctrl+Shift+I)' buttons. The 'TEST EVENTS' section shows 'TestEvent1' selected. The 'ENVIRONMENT VARIABLES' section is collapsed. The 'DEPLOY' section is expanded, showing 'Create new test event' and 'Private saved events'. The 'TEST EVENTS' section shows '+ Create new test event' and 'Private saved events TestEvent1'. The 'ENVIRONMENT VARIABLES' section is collapsed.

calculating the square of a number based on user input

The screenshot shows the AWS Lambda console interface. The top bar includes the AWS logo, a search bar, and account information ('Account ID: 0655-0253-8616' and 'Neel%20Patel'). The main area shows a success message: 'Successfully updated the function 20201494ServerlessAPI.' The code editor shows a Python file named 'lambda_function.py' with the following content:

```
def lambda_handler(event, context):
    params = event.get('queryStringParameters')
    num = int(params.get('num', '7'))
    result = num ** 2
    return {
        'statusCode': 200,
        'headers': {'Content-Type': 'application/json'},
        'body': f'The square of {num}'
    }
```

The interface includes tabs for 'PROBLEMS', 'OUTPUT', 'CODE REFERENCE LOG', 'TERMINAL', and 'Execution Results'. The 'Execution Results' tab is selected, showing the status 'Succeeded' and the test event 'Test Event Name: TestEvent1'. The response is displayed as JSON:

```
{
  "statusCode": 200,
  "headers": [
    {
      "key": "Content-Type",
      "value": "application/json"
    }
  ],
  "body": "The square of 7"
}
```

The right side of the screen features a 'Tutorials' section with a 'Create a simple web app' card. It says: 'Learn how to implement common use cases in AWS Lambda.' Below it is a list of steps: '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.', and a 'Start tutorial' button. At the bottom, there are links for 'CloudShell', 'Feedback', and 'Console Mobile App'.

```

def lambda_handler(event, context):
    params = event['queryStringParameters'] or {}
    return {
        "statusCode": 200,
        "headers": {
            "Content-Type": "application/json"
        },
        "body": "The square of 7 is 49"
    }

```

Function Logs:

```

START RequestId: aefd0a18-788e-4b61-90d6-474eaf4256ac Version: $LATEST
END RequestId: aefd0a18-788e-4b61-90d6-474eaf4256ac
REPORT RequestId: aefd0a18-788e-4b61-90d6-474eaf4256ac Duration: 1.78 ms Billed Duration: 91 ms Memory Size: 128 MB Max Memory Used: 36 MB Init Duration: 88.29 ms
Request ID: aefd0a18-788e-4b61-90d6-474eaf4256ac

```

Successfully updated the function 20201494ServerlessAPI.

API Gateway execution/output screenshot

API Gateway

Successfully updated the function 20201494ServerlessAPI.

20201494ServerlessAPI

Function overview

Description -

Last modified 10 minutes ago

Function ARN arn:aws:lambda:us-east-1:065502538616:function:20201494ServerlessSAPI

Function URL -

Actions Throttle, Copy ARN, Actions ▾

API Gateway + Add destination, + Add trigger

Tutorials

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

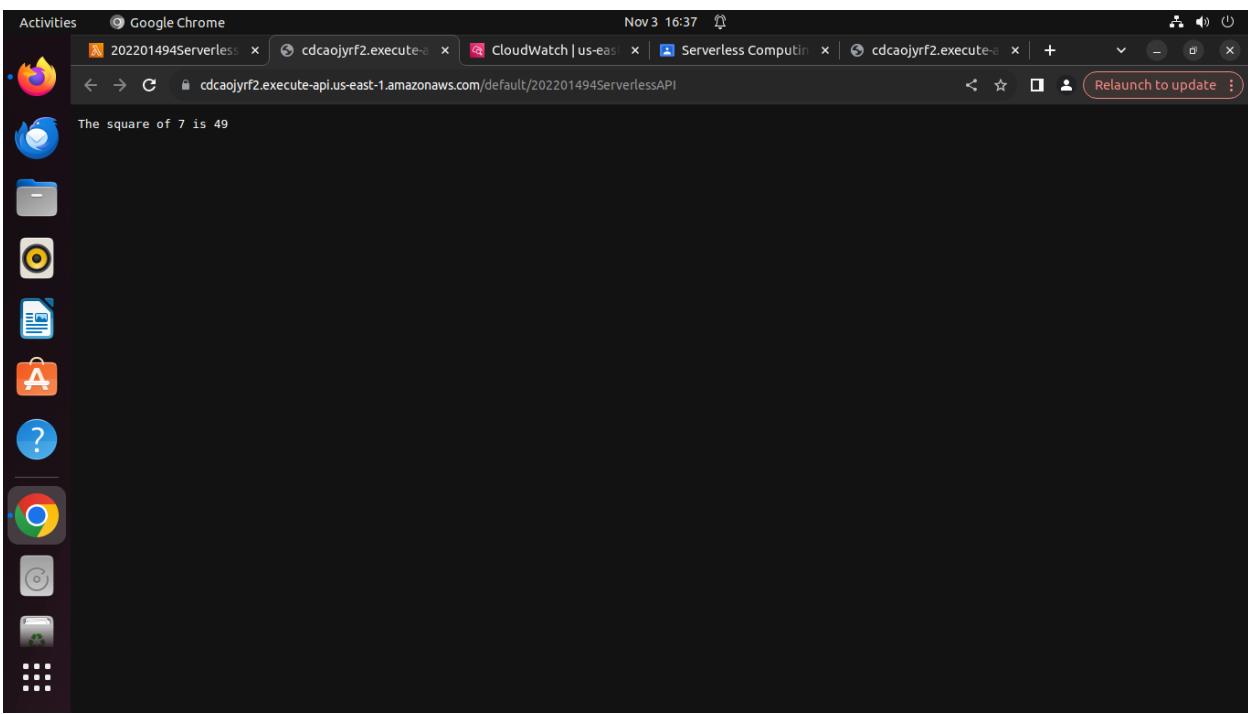
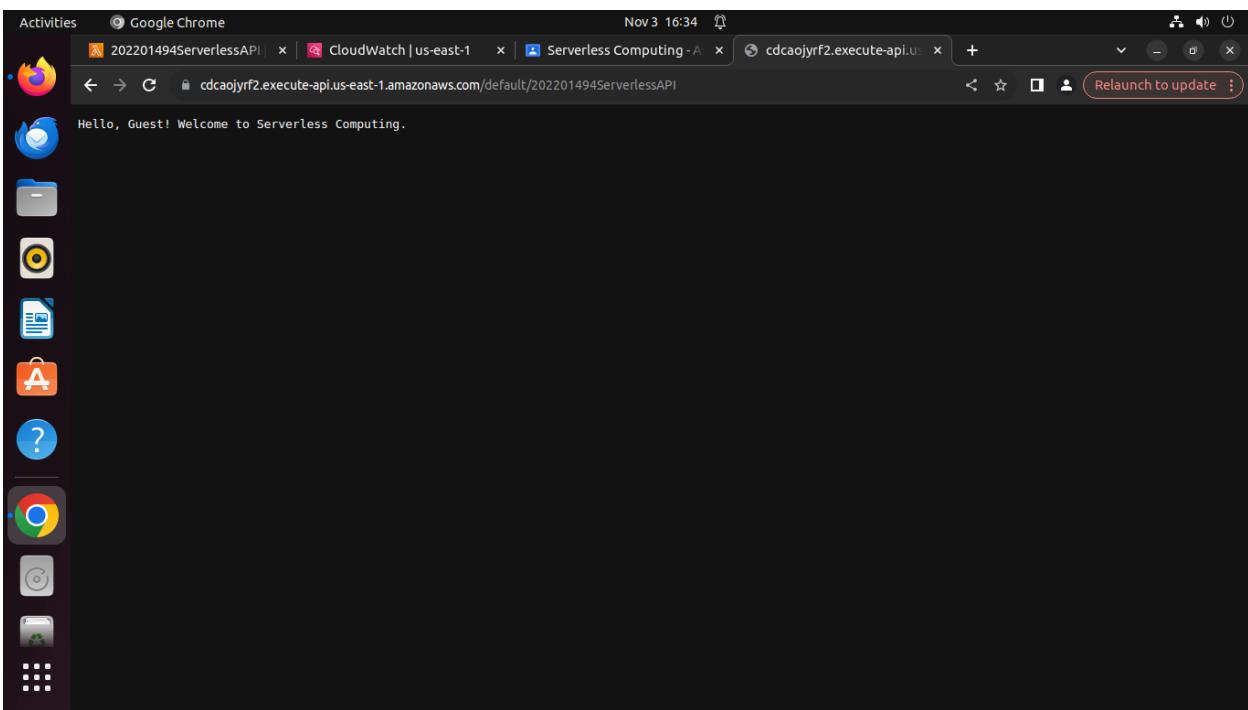
Learn more, Start tutorial

Code, Test, Monitor, Configuration, Aliases, Versions

CloudShell, Feedback, Console Mobile App

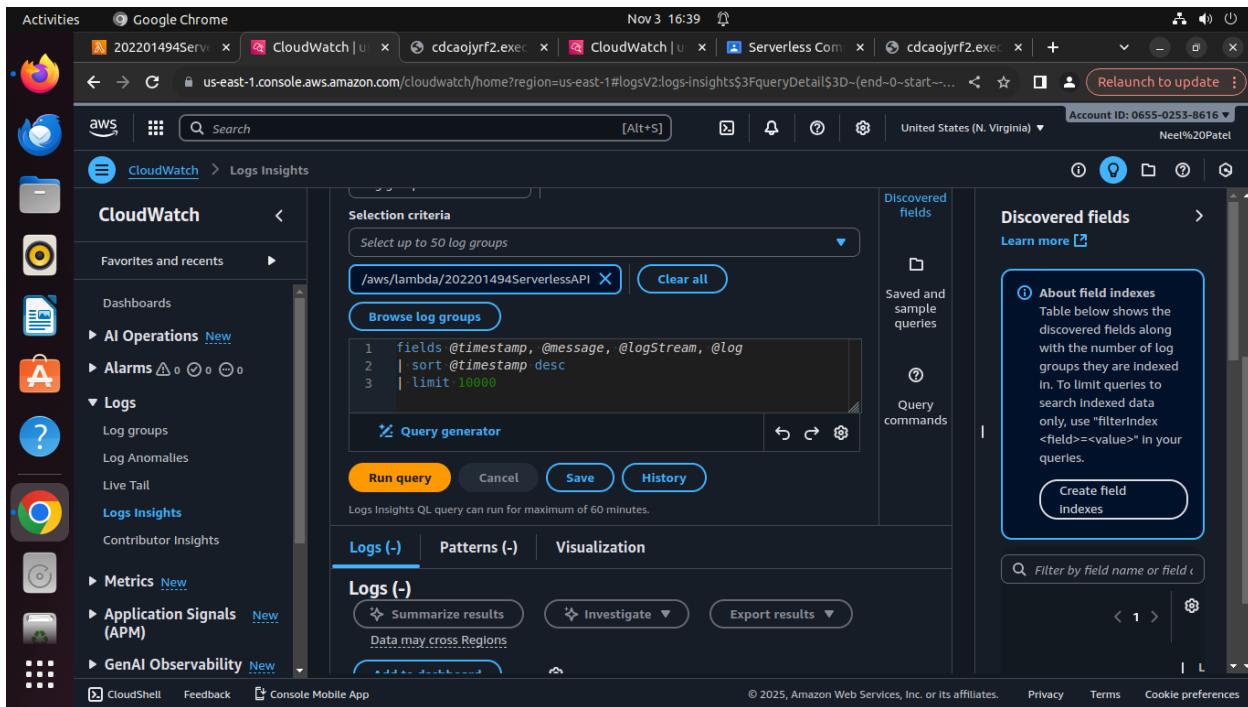
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Browser Result

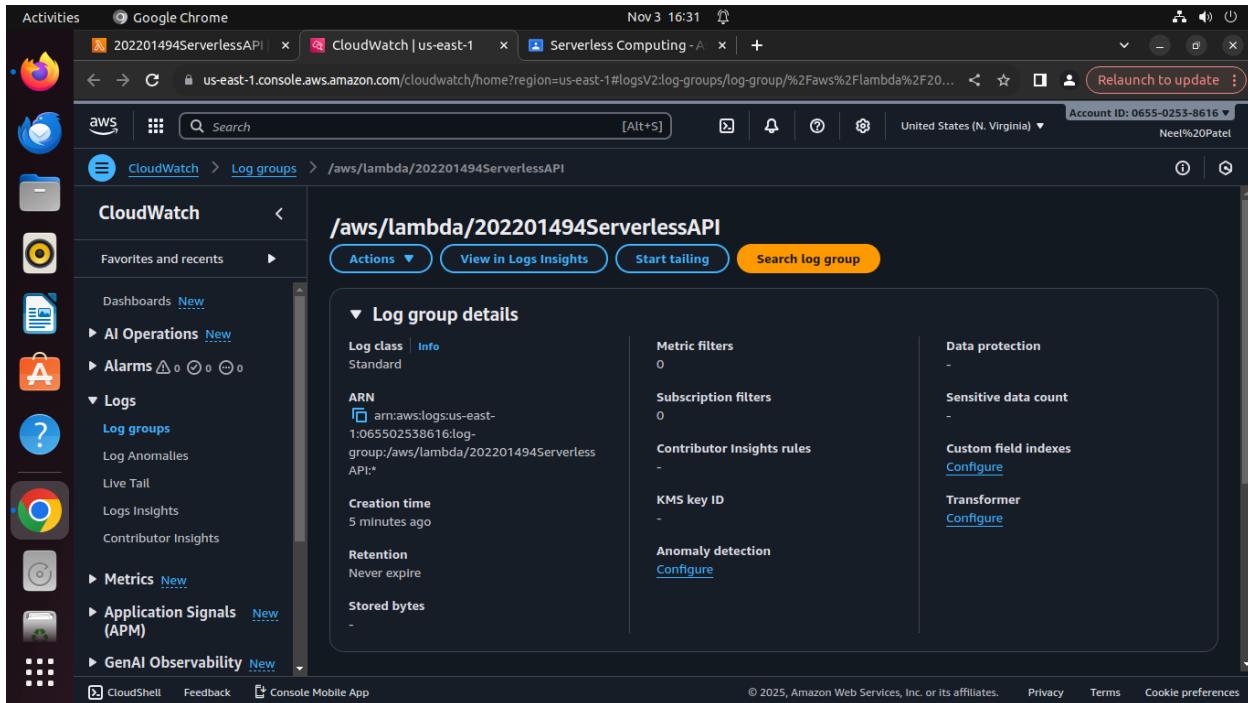


CloudWatch monitoring screenshots

Logs Insights



Log Group



Cloud Watch -> Metrix

(Logs / Invocations / Duration/ Errors)

