

Program 4: Writing and Executing Lambda Function.

Step 1: Sign in to the AWS Management Console

- Go to AWS Management Console.
- Sign in with your AWS account or create a new account.

Step 2: Navigate to AWS Lambda

- In the AWS Management Console, navigate to the "Services" dropdown and select "Lambda" under "Compute."

Step 3: Create a Lambda Function

- Click on the "Create function" button.
- Choose "Author from scratch."
- Enter a name for the function (e.g., "GreetUserLambda").
- Choose "Python" as the runtime.
- Choose an existing role or create a new one with basic Lambda execution permissions.
- Click on "Create function."

Step 4: Write Lambda Function Code

- Scroll down to the "Function code" section.
- Replace the default code with the following Python code:

```
def lambda_handler(event, context):  
    name = event['name'] if 'name' in event else 'Guest'  
    greeting = f'Hello, {name}!'  
    return {  
        'statusCode': 200,  
        'body': greeting  
    }
```

Step 5: Test the Lambda Function Locally

- Click on "Test" at the top of the Lambda console.
- Configure a new test event with JSON data:

```
{  
    "name": "John"  
}
```
- Click on "Test" to execute the function with the test event.
- Verify that the output shows the expected greeting.

Step 6: Deploy the Lambda Function

- Click on "Deploy" to deploy the Lambda function.

Step 7: Test the Deployed Lambda Function

- On the Lambda function page, click on the "Test" button again.
- Use the same test event or create a new one.
- Click on "Test" to execute the function.
- Verify that the deployed function returns the expected greeting.

Step 8: Clean-Up (Optional)

- If you're done experimenting, click on "Delete function" to avoid incurring additional charges.