

# Lesson 08 Demo 01 Lambda Function and CloudWatch

**Objective:** To create an AWS Lambda function, deploy code to it, test the function, and view its CloudWatch logs

Tools: AWS Lambda, AWS S3, and AWS CloudWatch

Prerequisites: An AWS account with access to its lab

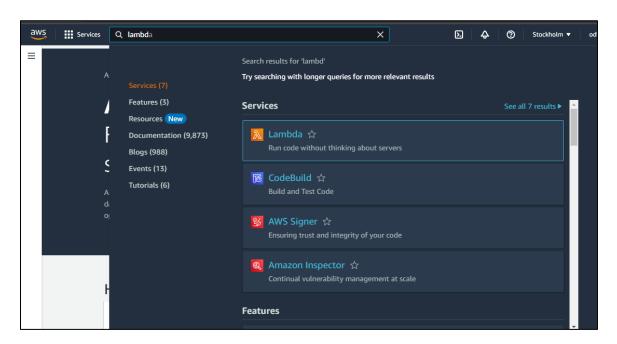
Steps to be followed:

1. Create a Lambda service

- 2. Deploy code to Lambda function
- 3. Test the Lambda function
- 4. View CloudWatch logs

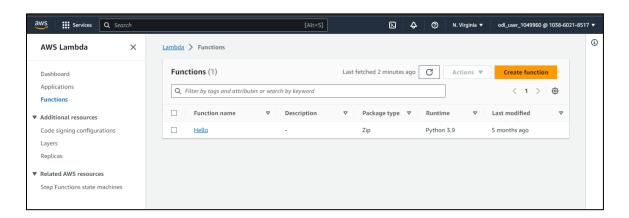
### Step 1: Create a Lambda service

1.1 On the AWS Management Console, search for and click Lambda

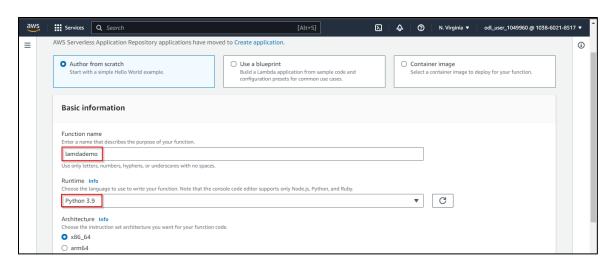


1.2 Click on the Create function



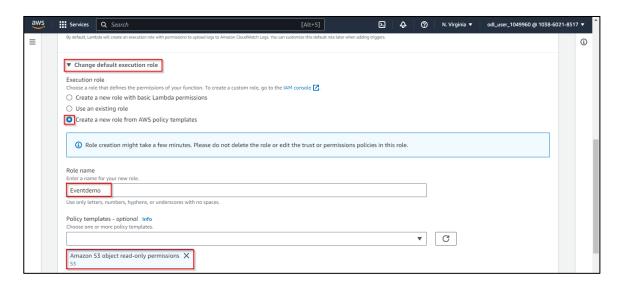


1.3 Enter the Function name as lambdademo and choose the Runtime as Python 3.9

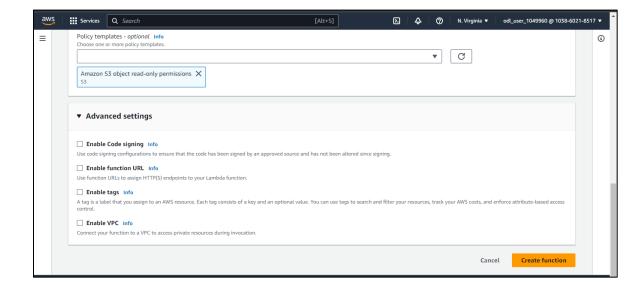




1.4 Click on Change default execution role, select Create a new role from AWS policy templates, enter the Role name as Eventdemo, and choose the Amazon S3 object as the Policy templates.



1.5 Click on the Create function



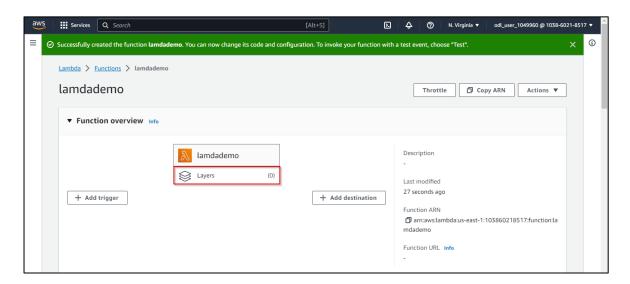


The Lambda function has been successfully created.



# **Step 2: Deploy code to Lambda Function**

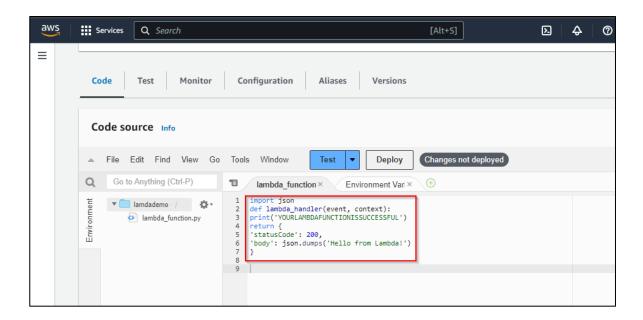
#### 2.1 Click on the Layers



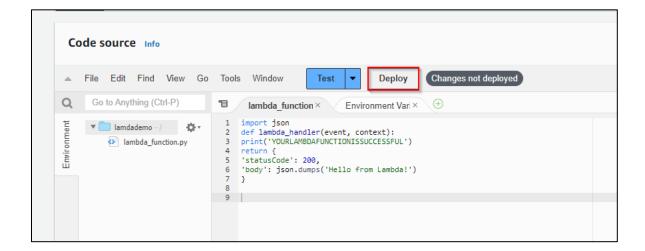


2.2 Enter the following code into the lambda\_function editor:

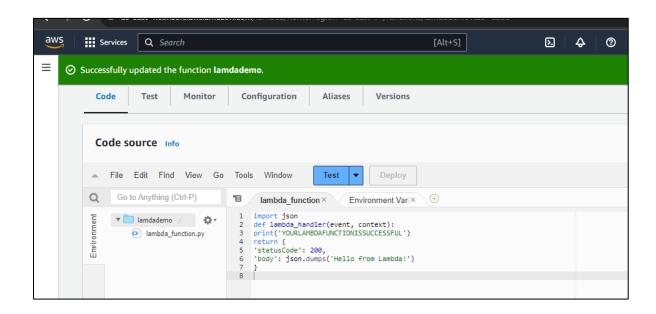
```
import json
def lambda_handler(event, context):
    print('Your Lambda Function is successful')
    return {
        'statusCode': 200,
        'body': json.dumps('Hello from Lambda!')
    }
```



2.3 Click on the **Deploy** option



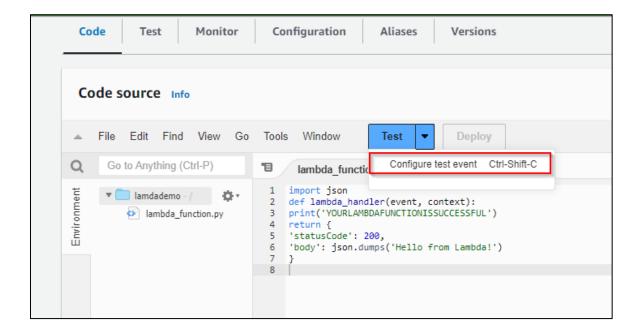




The Lambda function has been successfully updated.

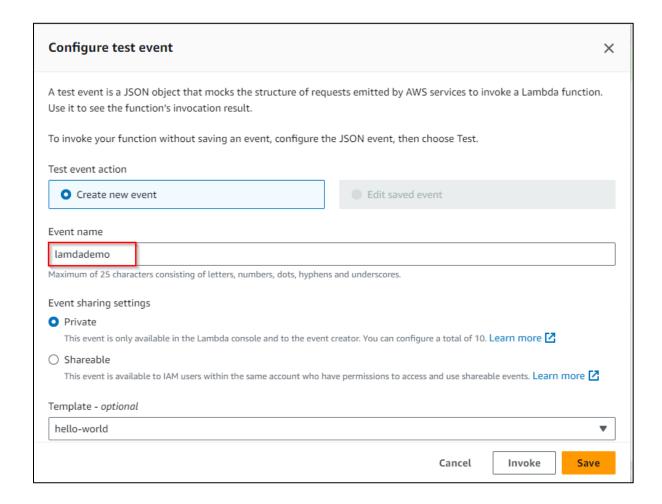
## **Step 3: Test the Lambda Function**

3.1 Click on the **Test** option and select **Configure test event** 





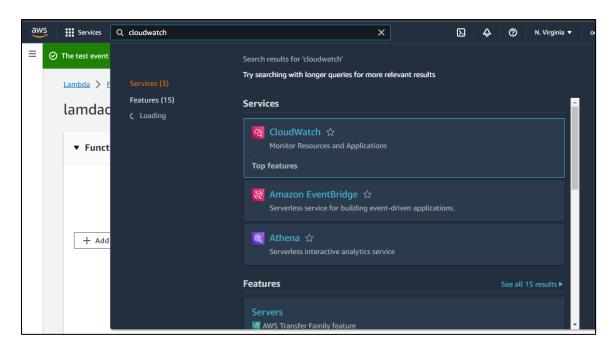
#### 3.2 Enter the **Event name** as **lamdademo** and click on the **Save** button



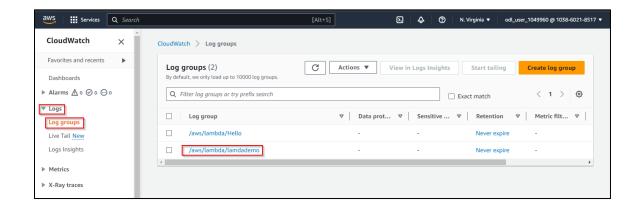


# **Step 4: View CloudWatch logs**

4.1 On the AWS Management Console, search and select CloudWatch

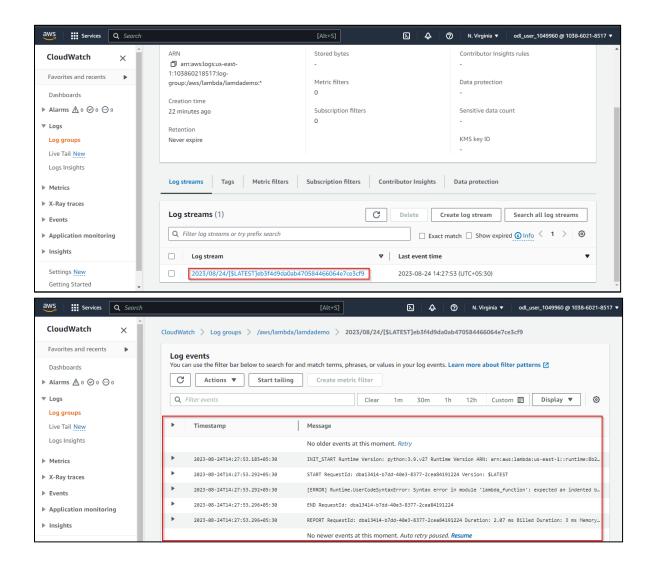


4.2 Click on Log groups under Logs and click on the /aws/lambda/lamdademo option





4.3 Click on any Log streams to view detailed CloudWatch logs for the Lambda function



The above-mentioned are the CloudWatch logs.

By following these steps, you have successfully created an end-to-end process for working with Lambda functions, from creation to deployment, testing, and log analysis.