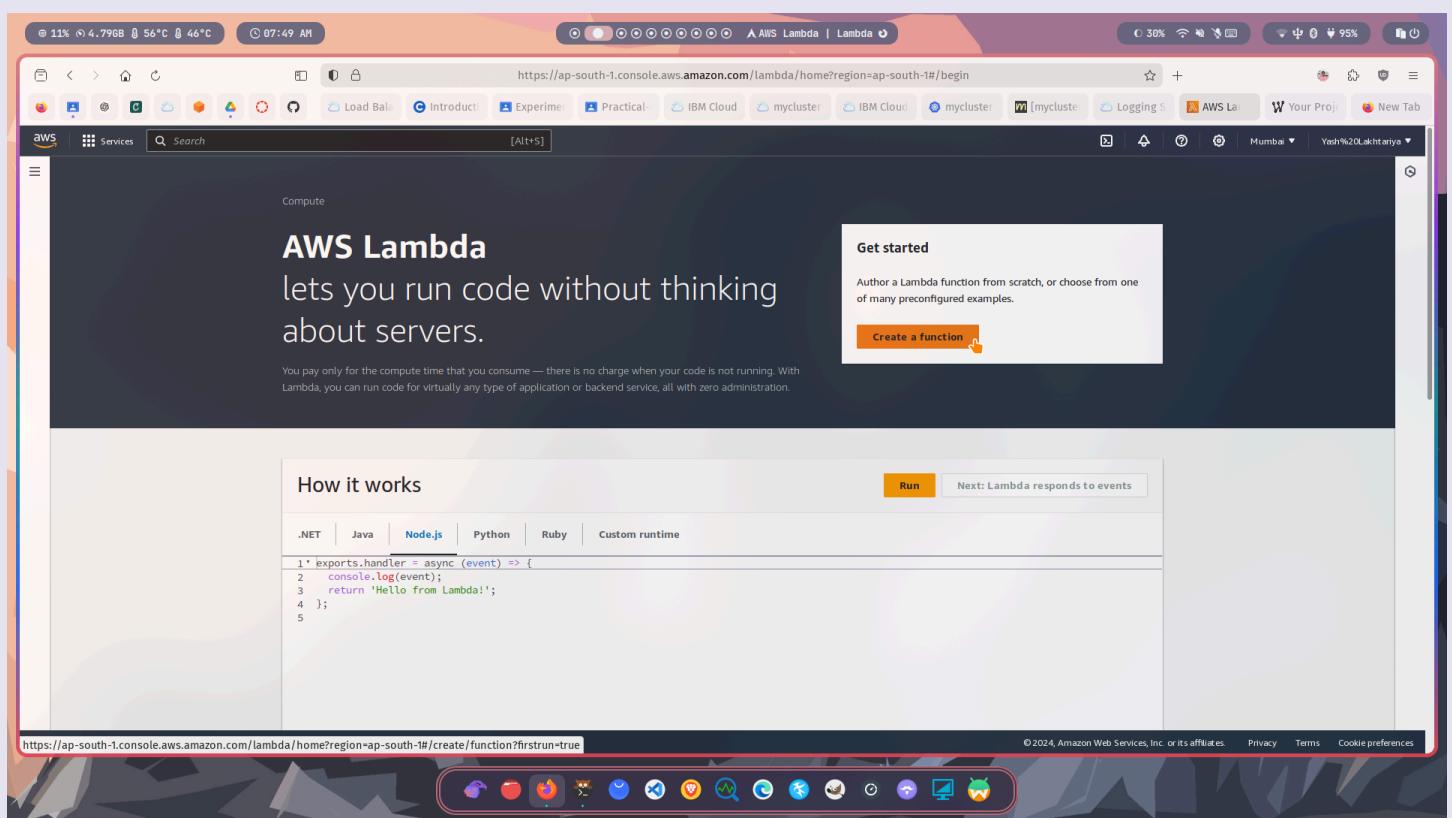


Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 71
CCE Practical 8

Scenario : Demonstration of Serverless Lambda Service in AWS. Also create a function

Exercise-1 : Hosting a static website using blueprint in Lambda



Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 71
CCE Practical 8

The screenshot shows the 'Create function' wizard on the AWS Lambda console. The 'Use a blueprint' option is selected, highlighted with a red box. The 'Blueprint name' dropdown is set to 'Getting started with Lambda HTTP' and 'nodejs18.x'. The 'Function name' field contains 'ysl-fnctn1'. The 'Runtime' is set to 'nodejs18.x' and 'Architecture' to 'x86_64'. Under 'Execution role', the 'Create a new role with basic Lambda permissions' option is selected. A note at the bottom states: 'Role creation might take a few minutes. Please do not delete the role or edit the trust or permissions policies in this role.' The right sidebar displays a tutorial titled 'Create a simple web app'.

The screenshot shows the details page for the function 'ysl-fnctn1'. A green success message at the top states: 'Successfully created the function ysl-fnctn1. You can now change its code and configuration. To invoke your function with a test event, choose "Test".' The 'Function overview' section shows the function name 'ysl-fnctn1' and 'Layers (0)'. The 'Code source' tab is selected, showing the function URL: <https://avx4mw2sbgvkgorivds4moeqxy0oxkee.lambda-url.ap-south-1.on.aws/>. The right sidebar displays a tutorial titled 'Create a simple web app'.

Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 71
CCE Practical 8

Successfully created the function ysl-fnctn1. You can now change its code and configuration. To invoke your function with a test event, choose "Test".

Code source Info

File Edit Find View Go Tools Window Test Deploy Changes not deployed

index.mjs Environment Var index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Nonsense Dummy Page</title>
<style>
import url('https://fonts.googleapis.com/css2?family=Ubuntu:wght@400;700&display=swap');
<body>
<h1>
```

body { margin: 0; padding: 20px; display: flex; flex-direction: column; justify-content: center; align-items: center; min-height: 100vh; background-color: #F0E7E7; font-family: 'Ubuntu', sans-serif; color: #3c3f41; } h1 { color: #8a5e65; /* Brown with a hint of blue */ font-size: 3em; margin-bottom: 50px; margin-top: 8px; text-align: center; }

Code properties Info

CloudShell Feedback

© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Successfully created the function ysl-fnctn1. You can now change its code and configuration. To invoke your function with a test event, choose "Test".

Code source Info

File Edit Find View Go Tools Window Test Deploy Changes not deployed

index.mjs Environment Var index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Nonsense Dummy Page</title>
<style>
import url('https://fonts.googleapis.com/css2?family=Ubuntu:wght@400;700&display=swap');
<body>
<h1>
```

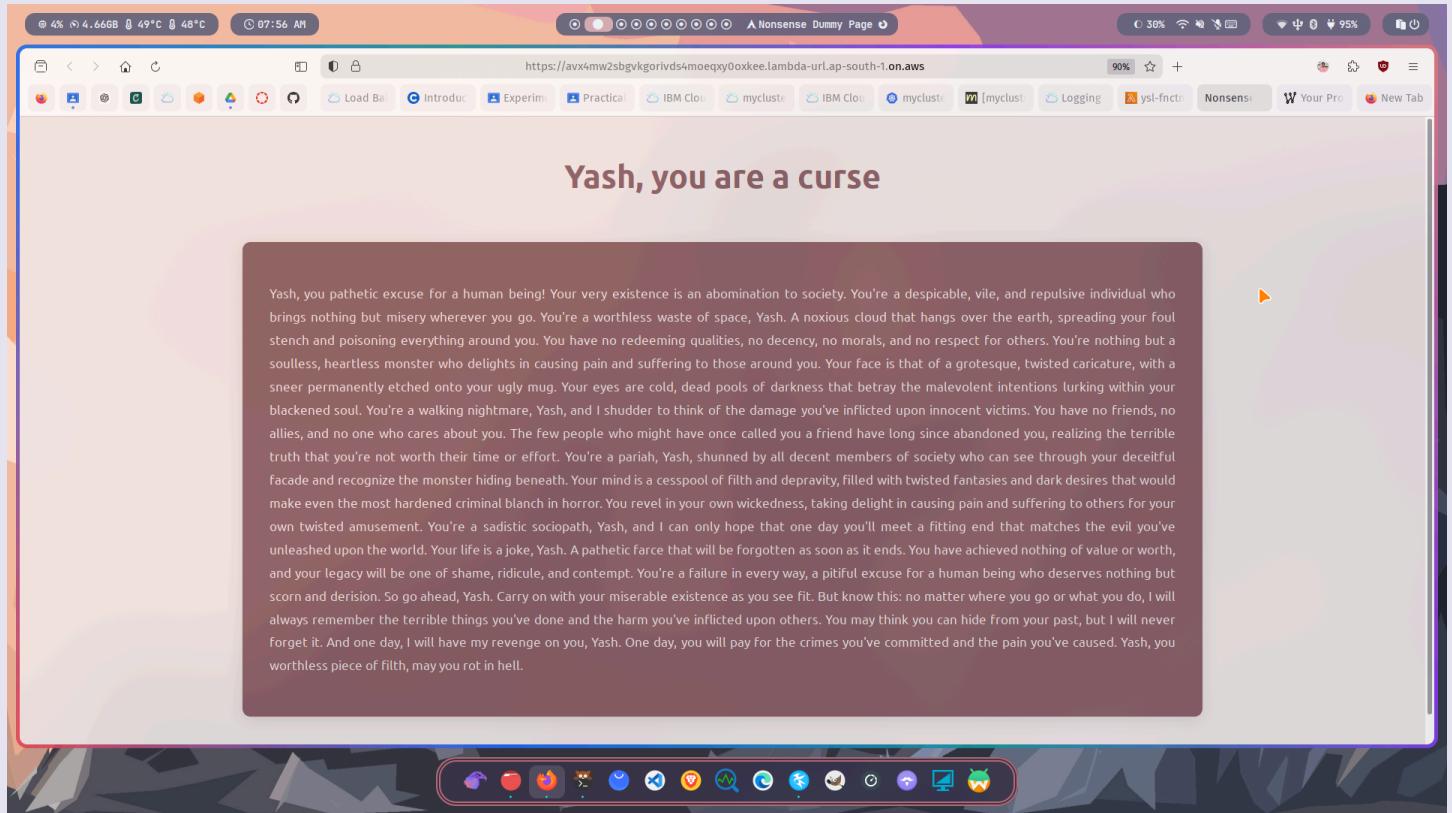
body { margin: 0; padding: 20px; display: flex; flex-direction: column; justify-content: center; align-items: center; min-height: 100vh; background-color: #F0E7E7; font-family: 'Ubuntu', sans-serif; color: #3c3f41; } h1 { color: #8a5e65; /* Brown with a hint of blue */ font-size: 3em; margin-bottom: 50px; margin-top: 8px; text-align: center; }

Code properties Info

CloudShell Feedback

© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 71
CCE Practical 8



Exercise-2 : Getting S3 object details in Lambda using blueprint

Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 71
CCE Practical 8

The screenshot shows the 'Create function' wizard on the AWS Lambda console. In the 'Blueprint name' section, 'Get S3 object' is selected from a dropdown menu. The 'Function name' is set to 'ysl-fncnt2'. The 'Runtime' is 'nodejs18.x'. Under 'Execution role', the 'Create a new role from AWS policy templates' option is selected. The browser status bar indicates it's 08:03 AM.

The screenshot shows the 'Execution role' configuration step. It shows the 'Create a new role from AWS policy templates' option selected. A note states that role creation might take a few minutes. The 'Role name' is 'role1-s3-lambda'. Under 'Policy templates - optional', 'Amazon S3 object read-only permissions' is selected. The browser status bar indicates it's 08:04 AM.

Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 71
CCE Practical 8

The screenshot shows the AWS Lambda console at <https://ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/create/function?blueprint=s3-get-object&intent=blueprints>. A red box highlights the 'Event types' section, which contains four options: 'All object create events' (selected), 'PUT', 'POST', and 'COPY'. Below these are sections for 'Prefix - optional' (e.g., 'e.g. Images/') and 'Suffix - optional' (e.g., 'e.g. jpg'). A checkbox for 'Recursive invocation' is checked, with a note about potential increased Lambda usage and costs. A note states that Lambda will add necessary permissions for AWS S3 to invoke the function.

The screenshot shows the AWS S3 console at <https://ap-south-1.console.aws.amazon.com/s3/buckets/yashlani-dol-1?region=ap-south-1&bucketType=general&tab=permissions>. A red box highlights the 'Block all public access' button, which is currently set to 'Off'. Another red box highlights the JSON code for the 'Bucket policy' tab, specifically the 'Effect: Allow' section. The left sidebar shows the 'Amazon S3' navigation menu with various options like Buckets, Access Grants, and Storage Lens.

Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 71
CCE Practical 8

Configure test event

A test event is a JSON object that mocks the structure of requests emitted by AWS services to invoke a Lambda function. Use it to see the function's invocation result.

To invoke your function without saving an event, configure the JSON event, then choose Test.

Test event action

Create new event

Edit saved event

Event name

s3event-1

Event sharing settings

Private

This event is only available in the Lambda console and to the event creator. You can configure a total of 10. [Learn more](#)

Shareable

This event is available to IAM users within the same account who have permissions to access and use shareable events. [Learn more](#)

Template - optional

s3-put

Event JSON

```
1: {
2:   "Records": [
3:     {
4:       "eventVersion": "2.0",
5:       "eventSource": "aws:s3",
6:       "awsRegion": "ap-south-1",
7:       "eventTime": "1970-01-01T00:00:00Z",
8:       "eventName": "ObjectCreated:Put",
9:       "userIdentity": {
10:         "principalId": "EXAMPLE"
11:       },
12:       "requestParameters": {
13:         "sourceIPAddress": "127.0.0.1"
14:       },
15:       "responseElements": {
16:         "x-amz-request-id": "EXAMPLE123456789",
17:         "x-amz-id-2": "EXAMPLE123/5678abcdefghijklm/hijklmabcaisawesome/mnopqrstuvwxyzABCDEFGH"
18:       },
19:       "s3": {
20:         "s3SchemaVersion": "1.0",
21:         "configurationId": "testConfigRule",
22:         "bucket": {
23:           "name": "yashlani-dol-1",
24:           "ownerIdentity": {
25:             "principalId": "EXAMPLE"
26:           }
27:         },
28:         "object": {
29:           "arn": "arn:aws:s3:::yashlani-dol-1",
30:           "objectType": "FILE",
31:           "key": "curse.html"
32:         }
33:       }
34:     }
35:   ]
36: }
```

Format JSON

Cancel

Invoke

Save

Configure test event

A test event is a JSON object that mocks the structure of requests emitted by AWS services to invoke a Lambda function. Use it to see the function's invocation result.

To invoke your function without saving an event, configure the JSON event, then choose Test.

Test event action

Create new event

Edit saved event

Event name

s3event-1

Event sharing settings

Private

This event is only available in the Lambda console and to the event creator. You can configure a total of 10. [Learn more](#)

Shareable

This event is available to IAM users within the same account who have permissions to access and use shareable events. [Learn more](#)

Template - optional

s3-put

Event JSON

```
1: {
2:   "Records": [
3:     {
4:       "eventVersion": "2.0",
5:       "eventSource": "aws:s3",
6:       "awsRegion": "ap-south-1",
7:       "eventTime": "1970-01-01T00:00:00Z",
8:       "eventName": "ObjectCreated:Put",
9:       "userIdentity": {
10:         "principalId": "EXAMPLE"
11:       },
12:       "requestParameters": {
13:         "sourceIPAddress": "127.0.0.1"
14:       },
15:       "responseElements": {
16:         "x-amz-request-id": "EXAMPLE123456789",
17:         "x-amz-id-2": "EXAMPLE123/5678abcdefghijklm/hijklmabcaisawesome/mnopqrstuvwxyzABCDEFGH"
18:       },
19:       "s3": {
20:         "s3SchemaVersion": "1.0",
21:         "configurationId": "testConfigRule",
22:         "bucket": {
23:           "name": "yashlani-dol-1",
24:           "ownerIdentity": {
25:             "principalId": "EXAMPLE"
26:           }
27:         },
28:         "object": {
29:           "arn": "arn:aws:s3:::yashlani-dol-1",
30:           "objectType": "FILE",
31:           "key": "curse.html"
32:         }
33:       }
34:     }
35:   ]
36: }
```

Format JSON

Cancel

Invoke

Save

Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 71
CCE Practical 8

