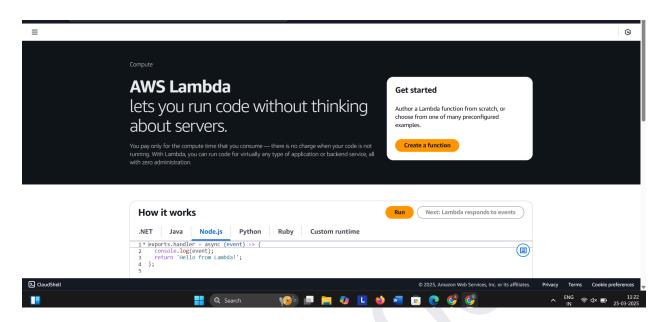


Practical 7(b)

(Create a REST API with a Lambda proxy integration - Amazon API Gateway)

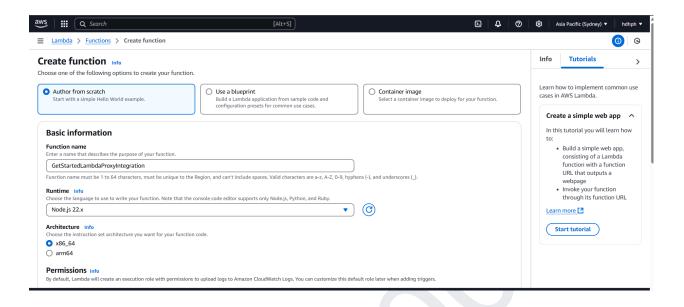
Name: Arpita Rajput Reg. No. 22MIP10001

Step1: Sign in to the Lambda console

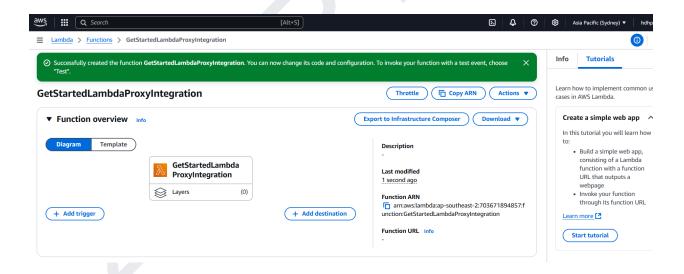


Step2: Choose Functions in the navigation pane.

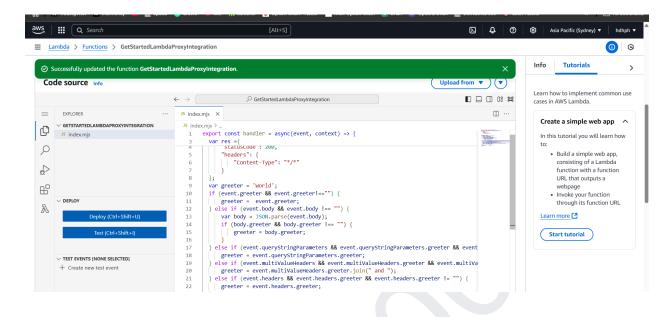
- 1. Choose Create function.
- Choose Author from scratch.
- 3. Under Basic information, do the following:
 - a. In Function name, enter GetStartedLambdaProxyIntegration.
 - b. For Runtime, choose either the latest supported Node.js or Python runtime.
 - c. Under Permissions, expand Change default execution role. For Execution role dropdown list, choose Create new role from AWS policy templates.
 - d. In Role name, enter GetStartedLambdaBasicExecutionRole.



Step 3: Choose Create function.

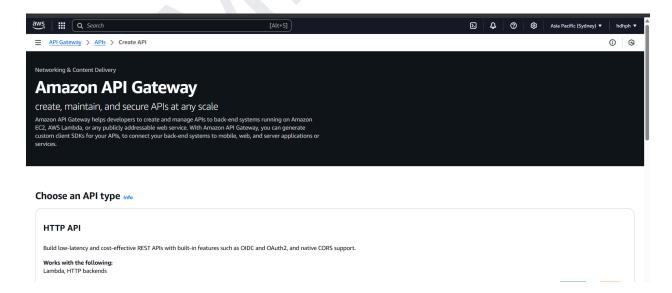


Step 4: Under Function code, in the inline code editor, change the code.



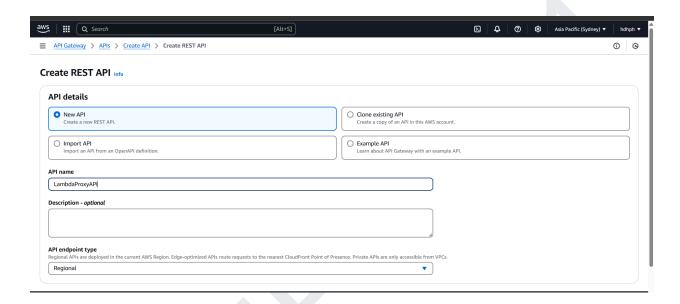
Create a "Hello, World!" API

Step 5: Sign in to the API Gateway console.

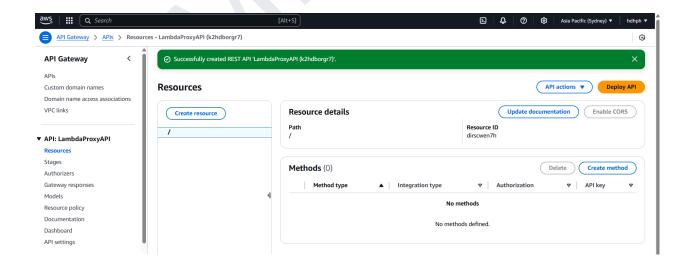


Step 6: Under REST API, choose Build.

- 1. For API name, enter LambdaProxyAPI.
- 2. (Optional) For Description, enter a description.
- 3. Keep API endpoint type set to Regional.
- 4. Choose Create API.

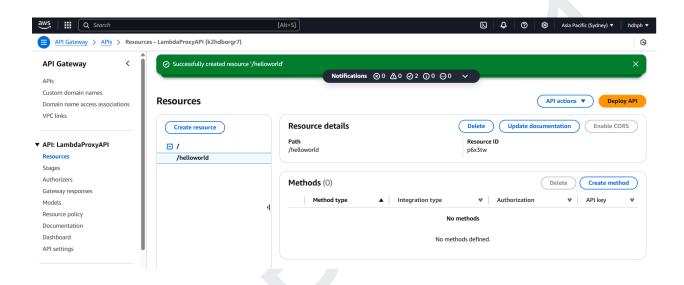


Step 7: Choose Create resource.



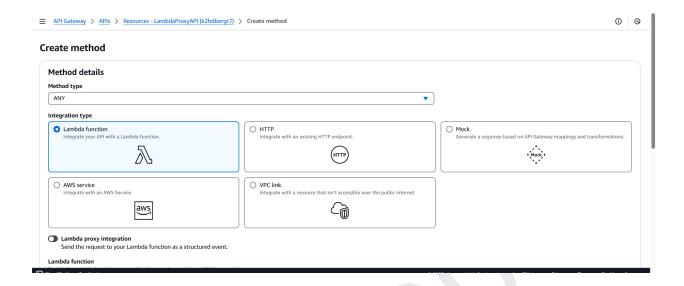
Step 8: Choose Create resource.

- 1. Keep Proxy resource turned off.
- 2. Keep Resource path as /.
- 3. For Resource name, enter helloworld.
- 4. Keep CORS (Cross Origin Resource Sharing) turned off.
- 5. Choose Create resource.



To create an ANY method

- 1. Select the /helloworld resource, and then choose Create method.
- 2. For Method type, select ANY.
- 3. For Integration type, select Lambda function.
- 4. Turn on Lambda proxy integration.
- 5. For Lambda function, select the AWS Region where you created your Lambda function, and then enter the function name.
- To use the default timeout value of 29 seconds, keep Default timeout turned on.
 To set a custom timeout, choose Default timeout and enter a timeout value
 between 50 and 29000 milliseconds.
- Choose Create method.



Deploy and test the API

To deploy your API

- 1. Choose Deploy API.
- 2. For Stage, select New stage.
- 3. For Stage name, enter test.
- 4. (Optional) For Description, enter a description.
- 5. Choose Deploy.
- 6. Under Stage details, choose the copy icon to copy your API's invoke URL.

