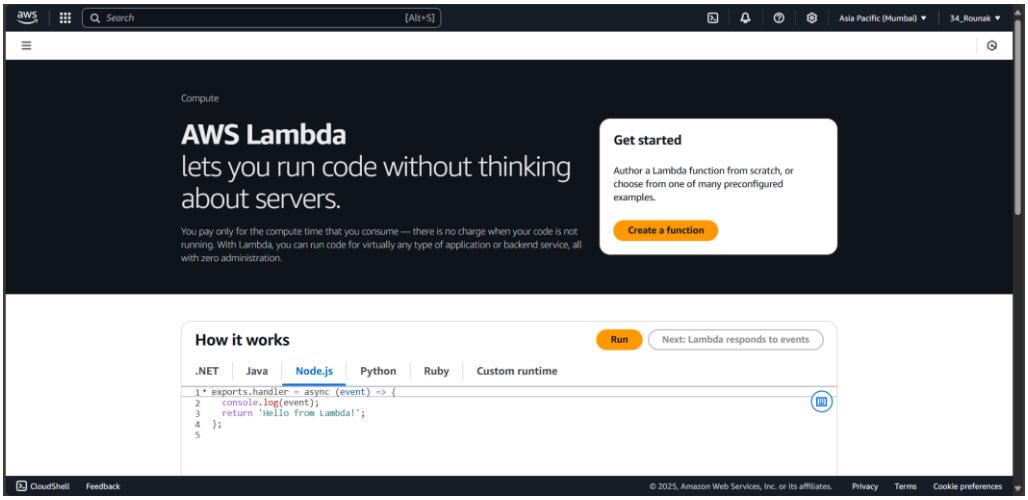
Assignment number: 15

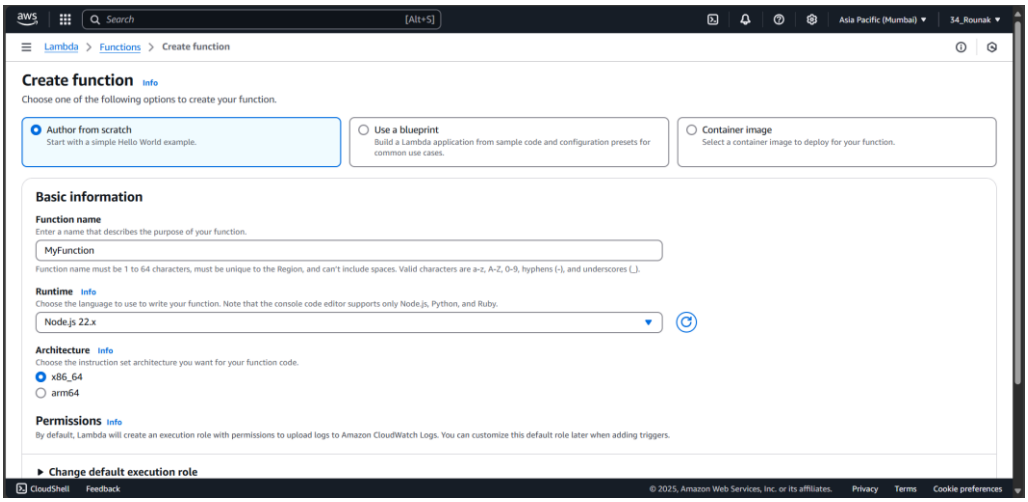
Problem definition: Create a serverless computing service.

Step 1: Sign in to your AWS account as the root user.

Step 2: Log in to the AWS Management Console. Use the search bar at the top to search for **"Lambda"** and select **AWS Lambda** from the results. On the AWS Lambda dashboard, click the **Create function** button to begin creating a new Lambda function.



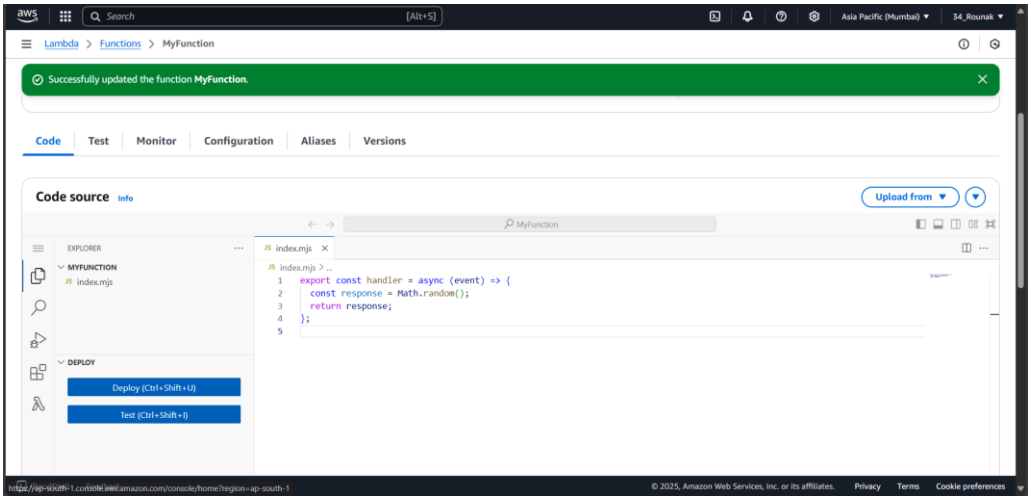
Step 3: In the function creation page, enter a unique and descriptive name for your Lambda function. Under the **Runtime** dropdown menu, select **Node.js 22.x** as the runtime environment. Then click **Create function** at the bottom of the page.



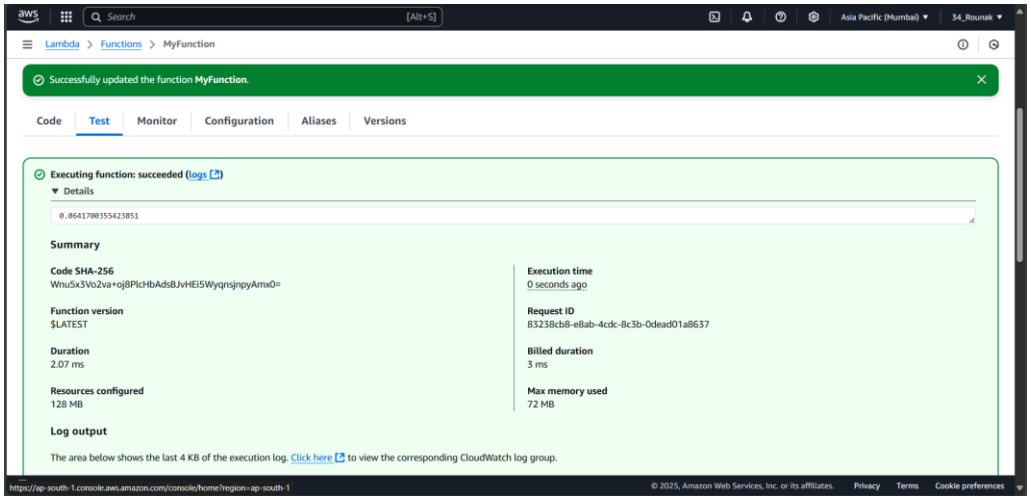
Step 4: To customize the function, scroll down to the **Code** tab of the Lambda function page. Edit the index.js or the main handler file as needed. For example, modify the response to be a random number:

```
export const handler = async (event) => {
  const response = Math.random();
  return response;
};
```

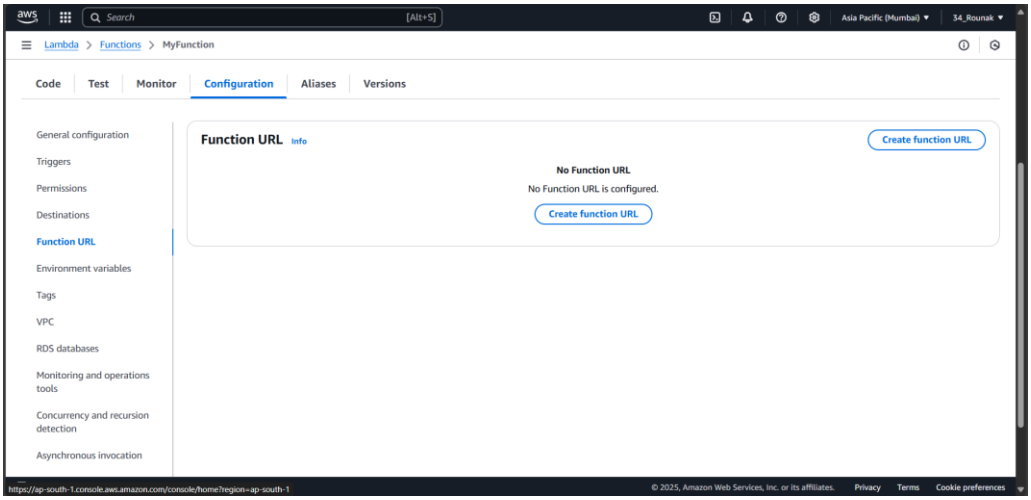
Click **Deploy** to save and apply your changes.

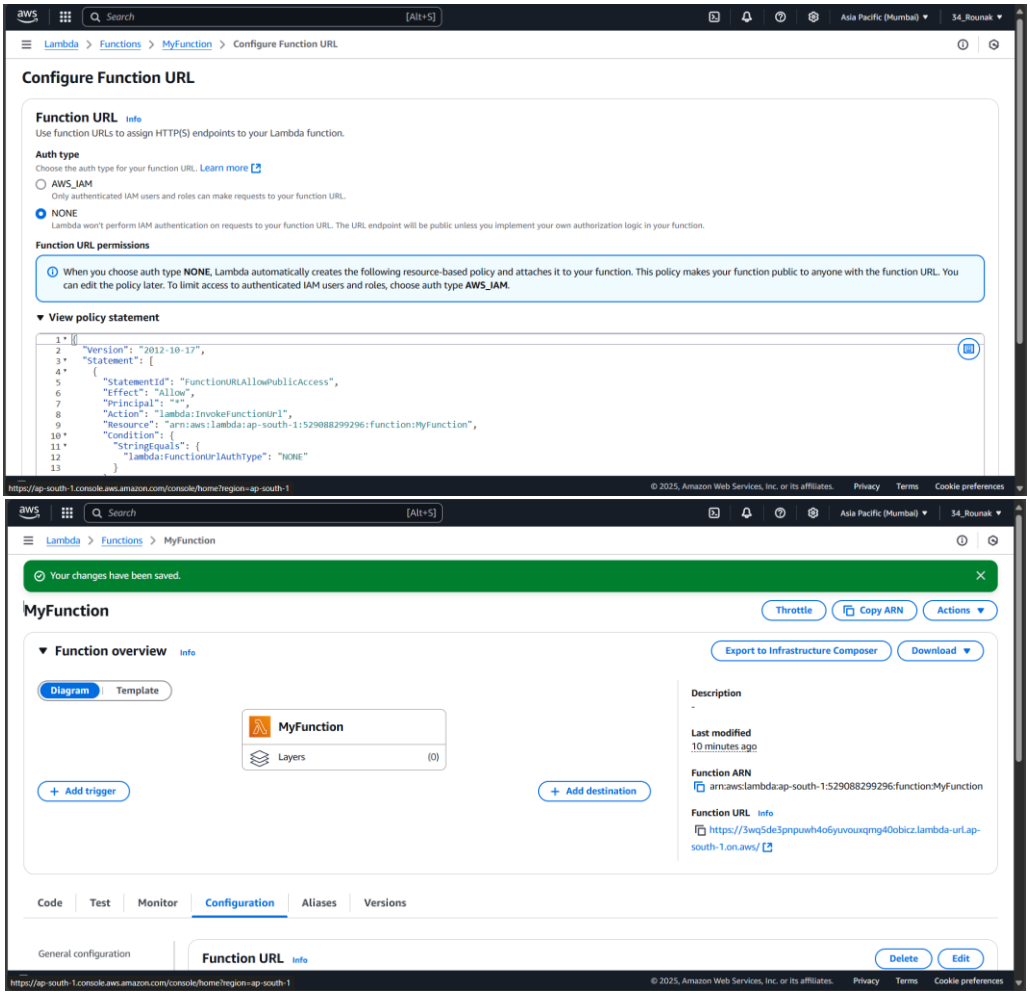


Step 5: Using the **Test** tab in the Lambda console, you can click on the **Test** button to invoke the function and check the execution results and logs.



Step 4: Under the **Configuration** tab navigate to the **Function URL** section on the left sidebar. Click on **Create function URL**. Set the **Auth type** to **NONE** to make the function publicly accessible without authentication. Click **Save** to generate the URL. Once the Function URL is created, the Lambda function configuration will update automatically.





Step 5: Copy the generated **Function URL** and open it in a new browser tab. You should see the output response from your Lambda function, confirming that the serverless function is successfully deployed and accessible.

Conclusion:

In conclusion, you have successfully created, customized, deployed, and tested an AWS Lambda–based serverless function that is publicly accessible via a Function URL. By following the steps to create the function, generate and enable its URL, modify the handler code, deploy your changes, and verify via both the browser and the built-in test tool, you now have a working serverless endpoint that requires no dedicated server infrastructure. This exercise demonstrates how AWS Lambda streamlines development by handling provisioning, scaling, and availability, allowing you to focus solely on writing and iterating your application logic.