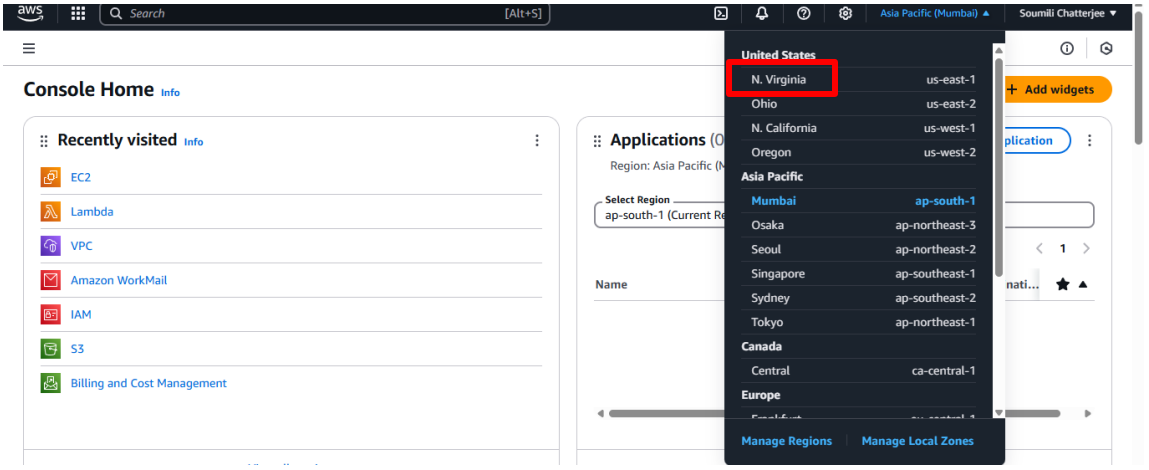
Assignment No. – 13

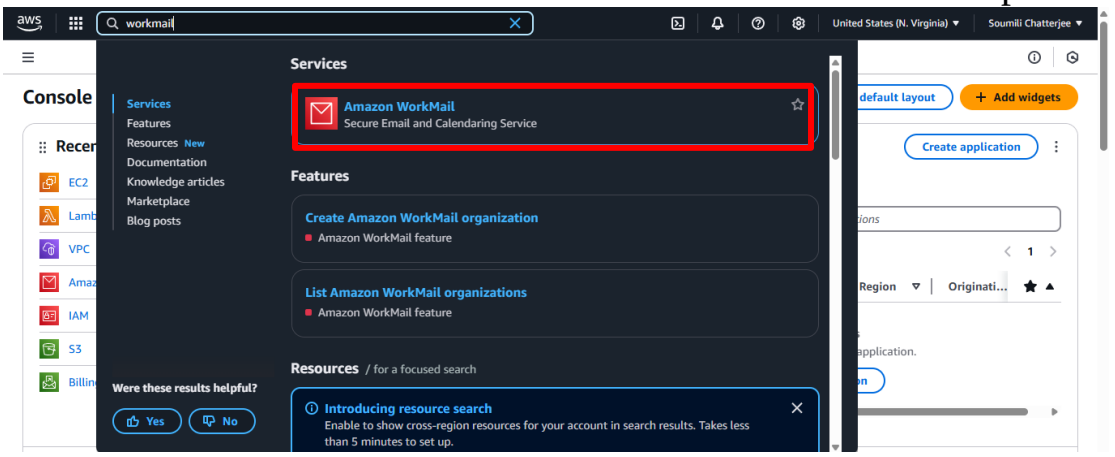
Problem Statement: Create a workmail for your organization.

Procedure:

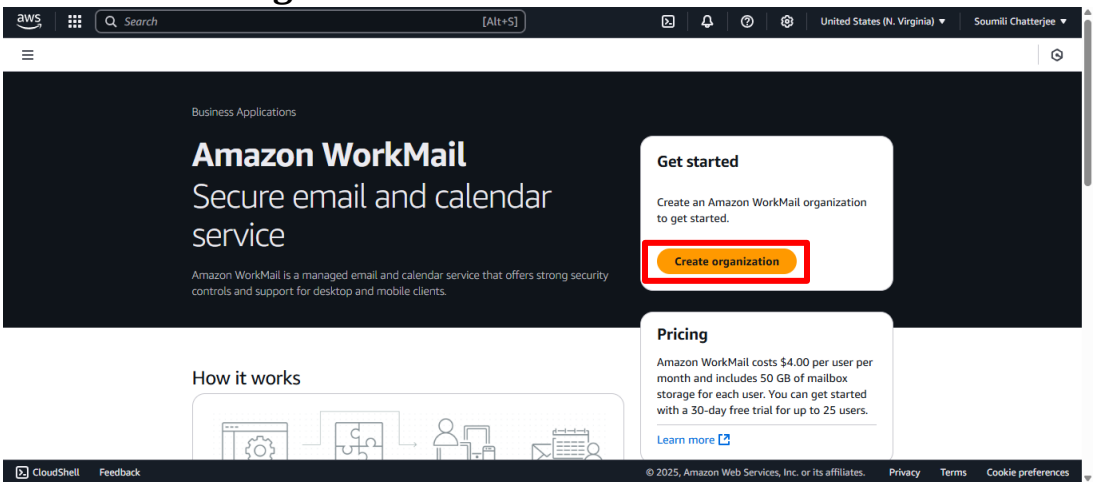
1. **Sign In** to the **AWS** account.
2. Change the **region** to **N.Virginia** from the dropdown on the left-side of the username.



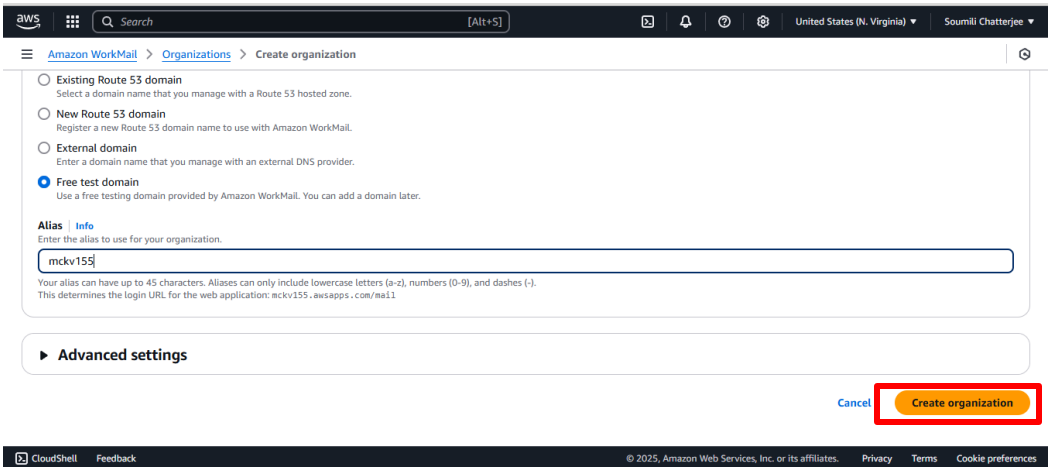
3. Search for **workmail** in the search bar. Select **Amazon workmail** option.



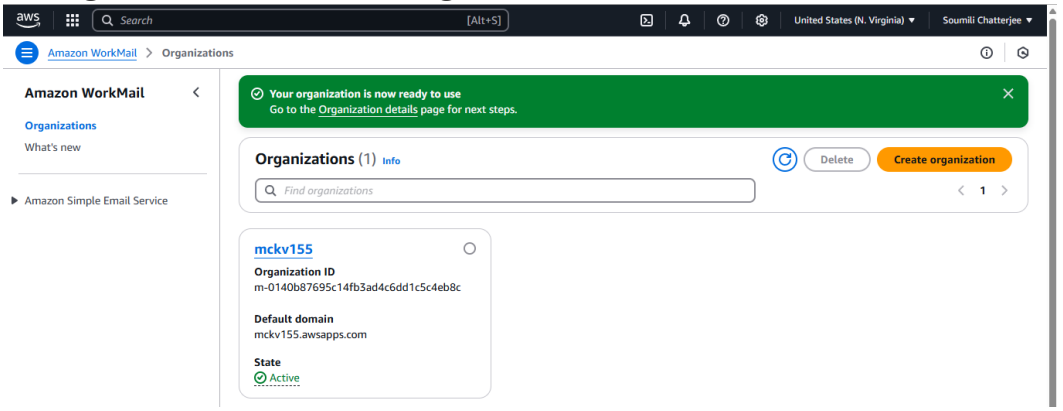
4. Click on the **create organization**.



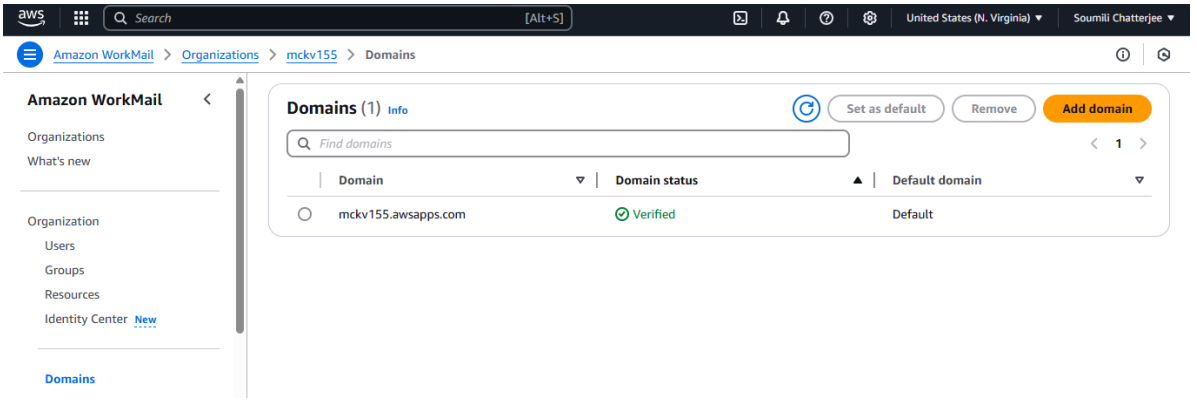
5. Select the **free test domain** under email domain. Give the **organization name/ alias** and then click on **create organization**.



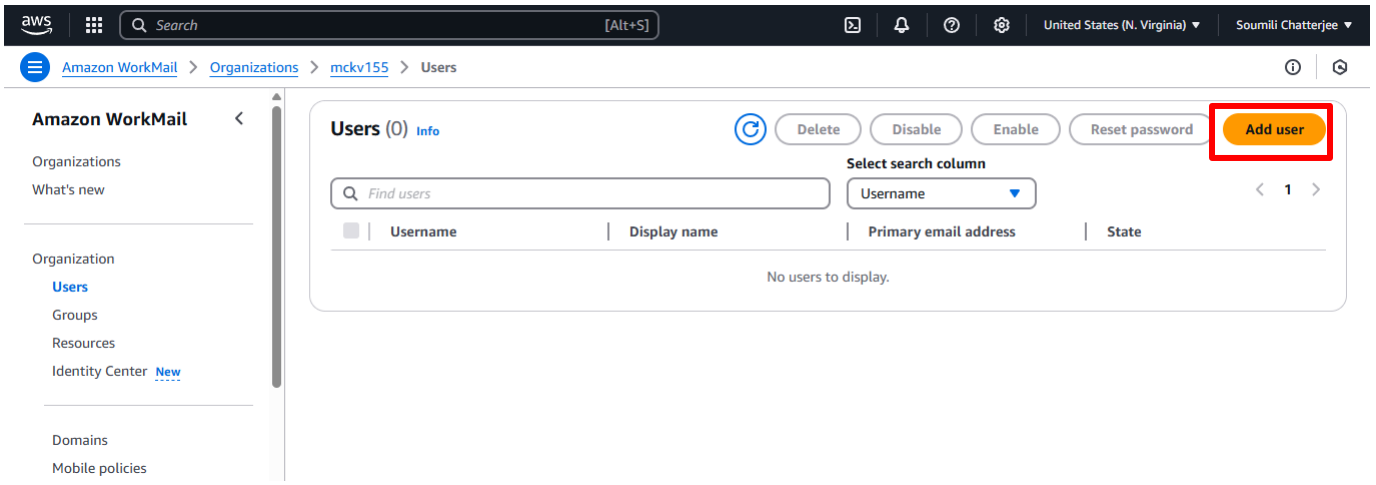
6. After waiting for 2 minutes, the organization will become **active**.



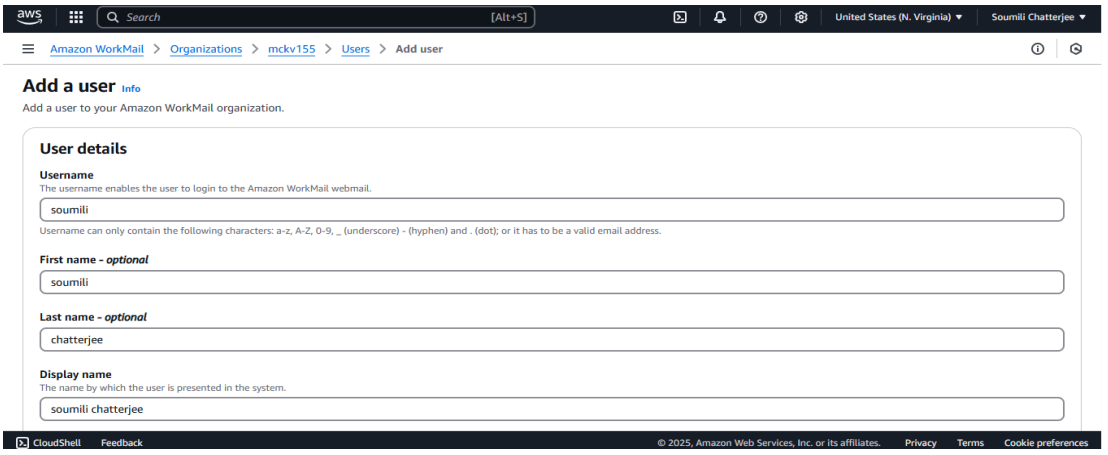
7. Click on the **organization name**. Next, go to the **Domains** section in the left side navigation bar and check that the **domain status** is **verified** or not.



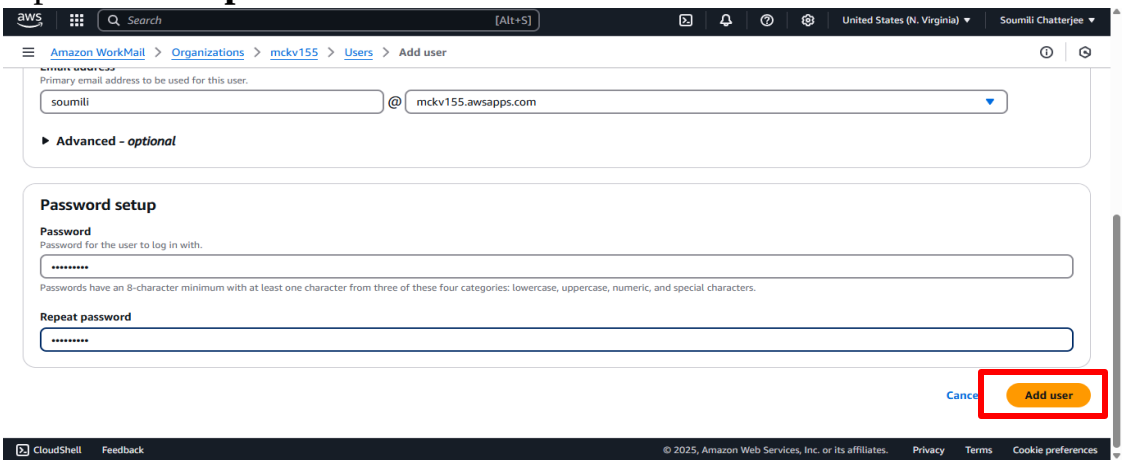
8. Now, go to the **Users** section under **Organization** tab on the left side navigation bar. Click on **add user** button.



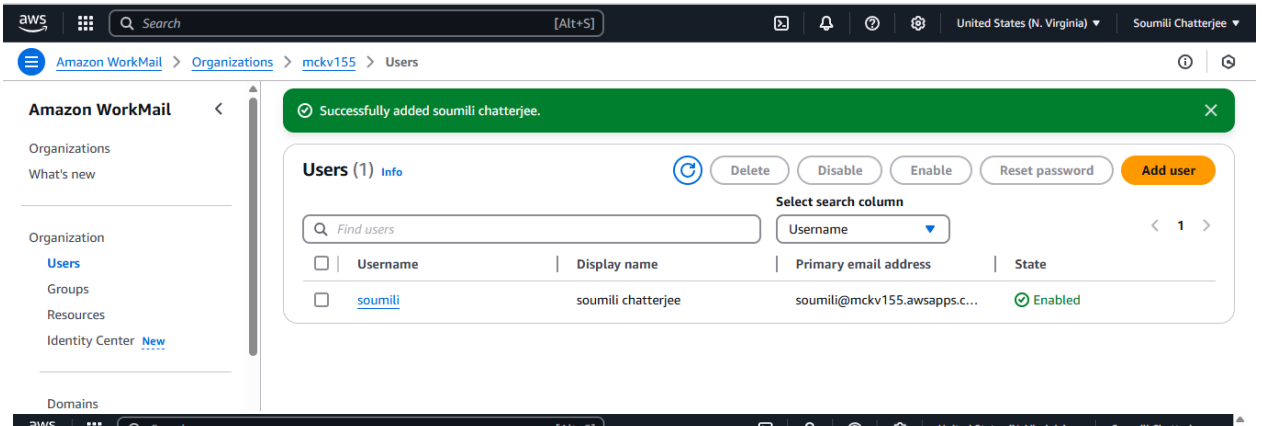
9. Give **username**, **firstname** and **lastname**.

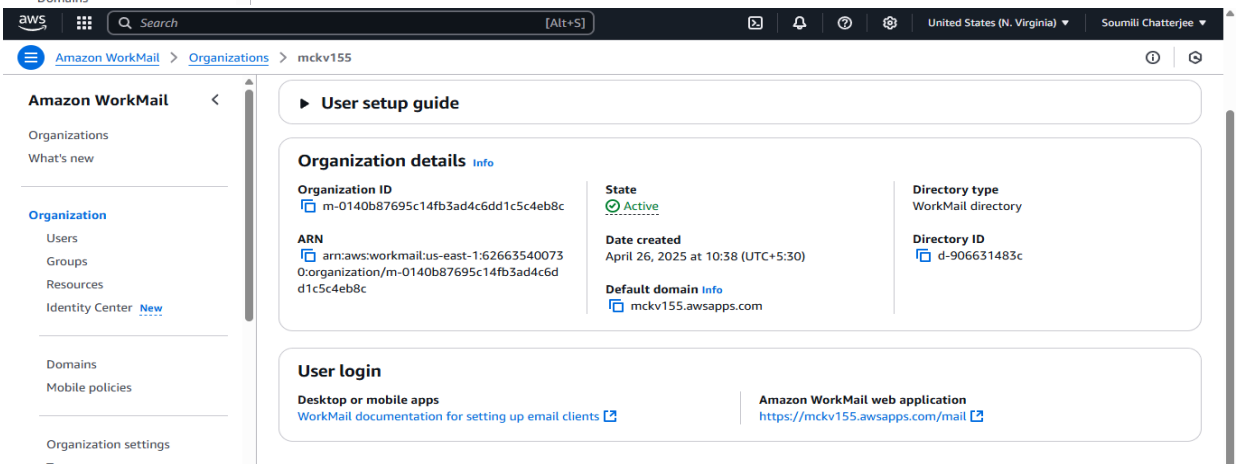


10. Then provide the **password** and click on **add user** button.

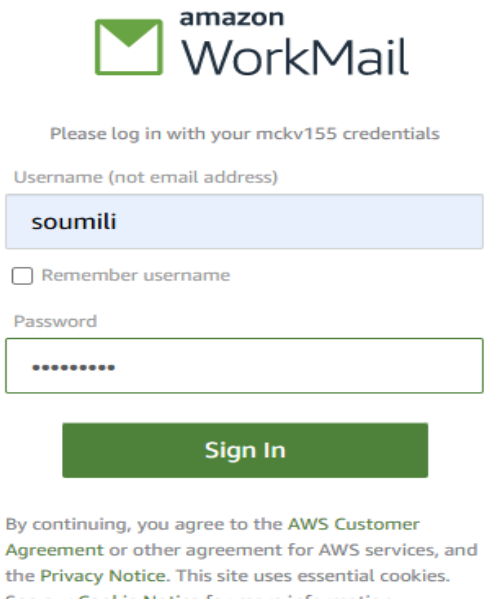


11. After the user is created, return back to the organization page and click on the **organization name**.

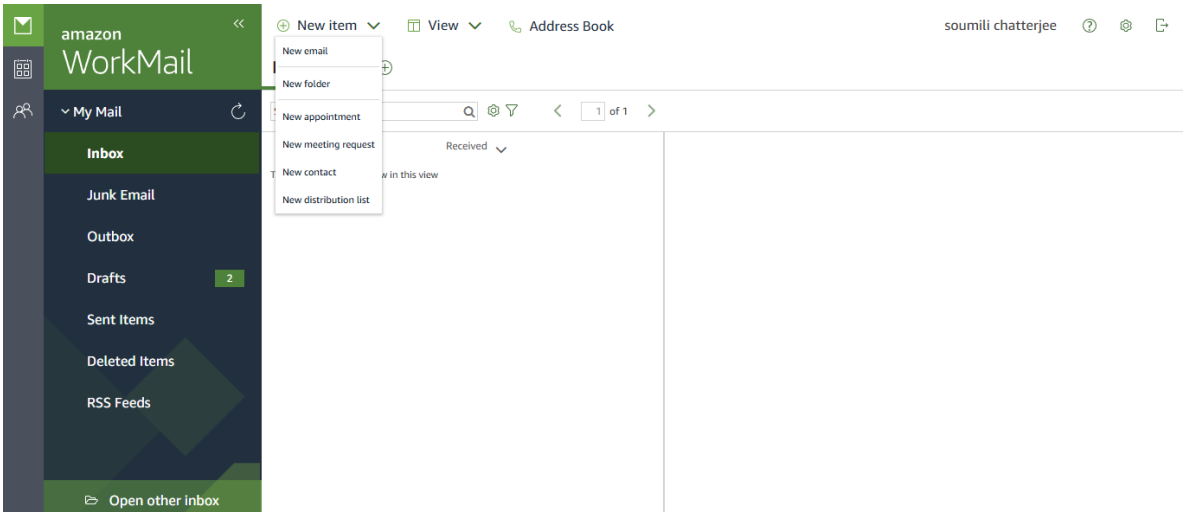




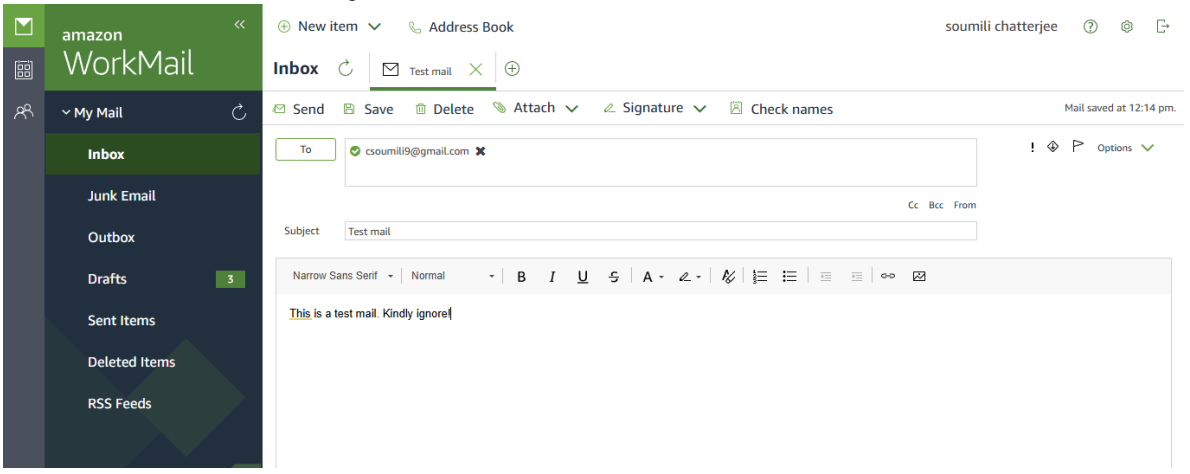
12. Now, click on the **Amazon Workmail web application** link under **User Login** and enter the credentials of the user and sign in.



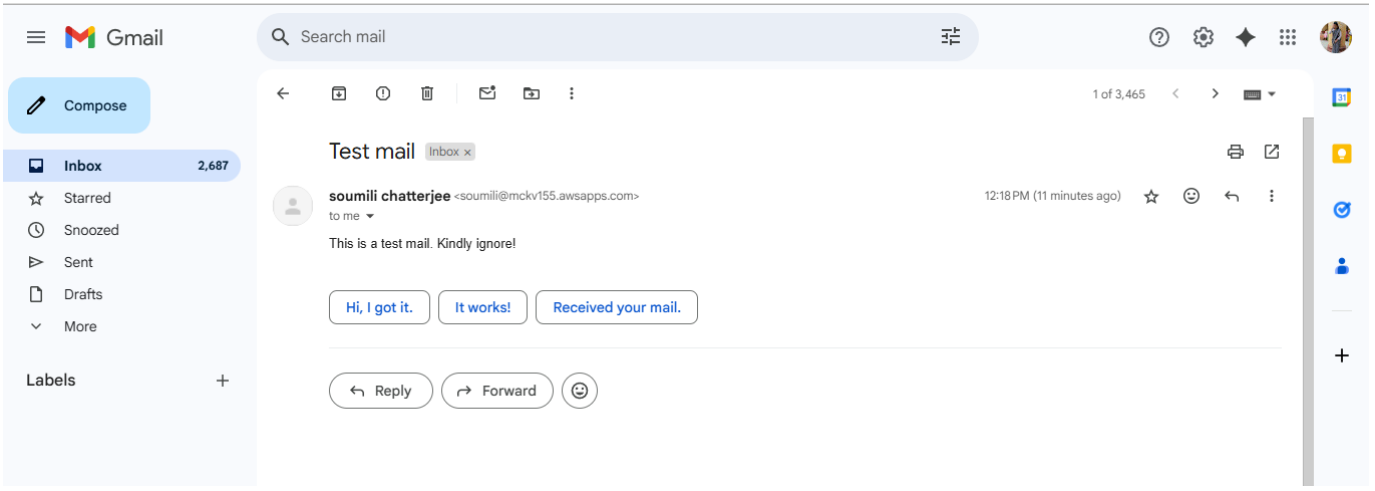
13. Send a mail to your Gmail from this by creating a mail using the **new item** option and then click on **new email**.



14. Now, write an email to your Gmail address and send it.



15. Check Gmail.



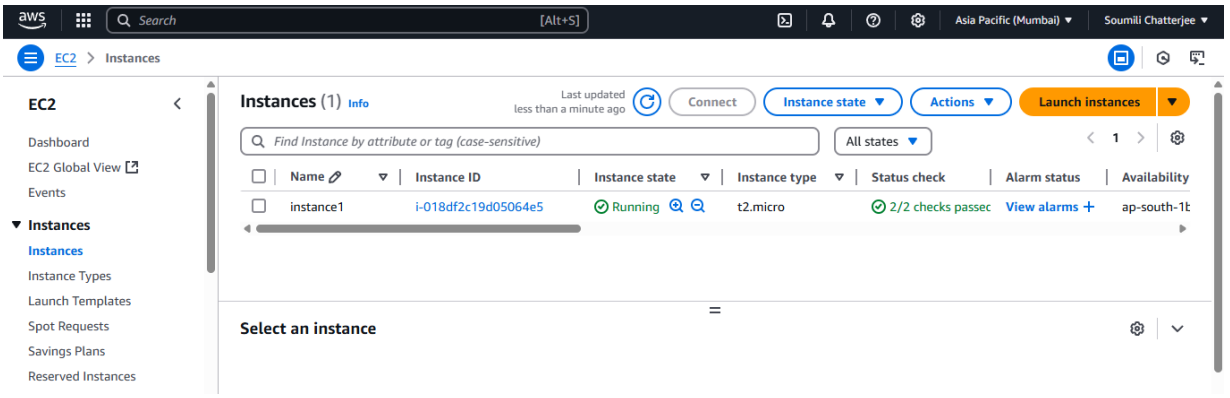
As, our mail is working perfectly fine, therefore we have successfully created a workmail for our profile.

Assignment No. – 14

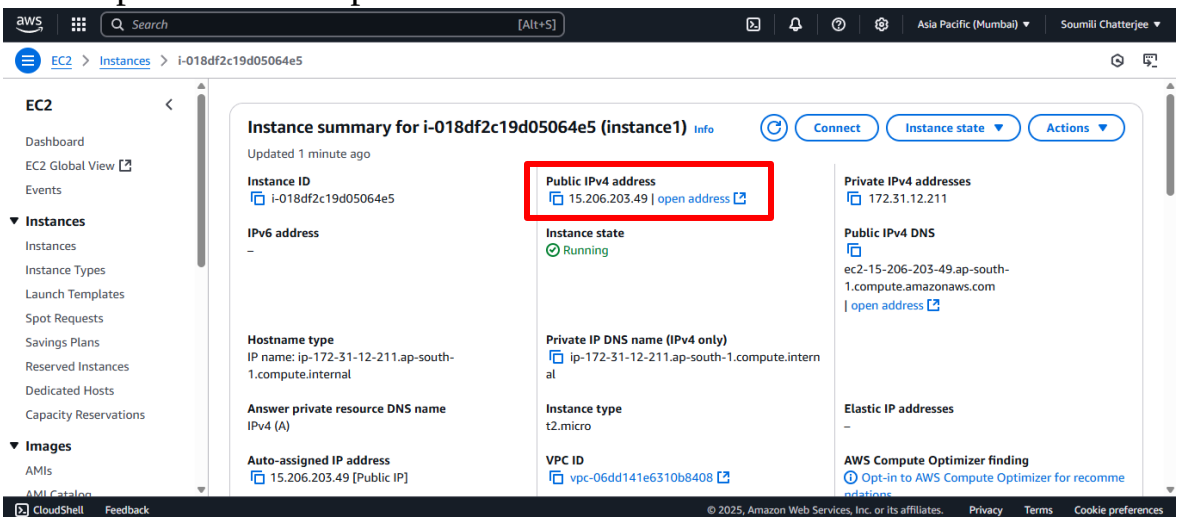
Problem Statement: Create an Elastic IP for an Instance.

Procedure:

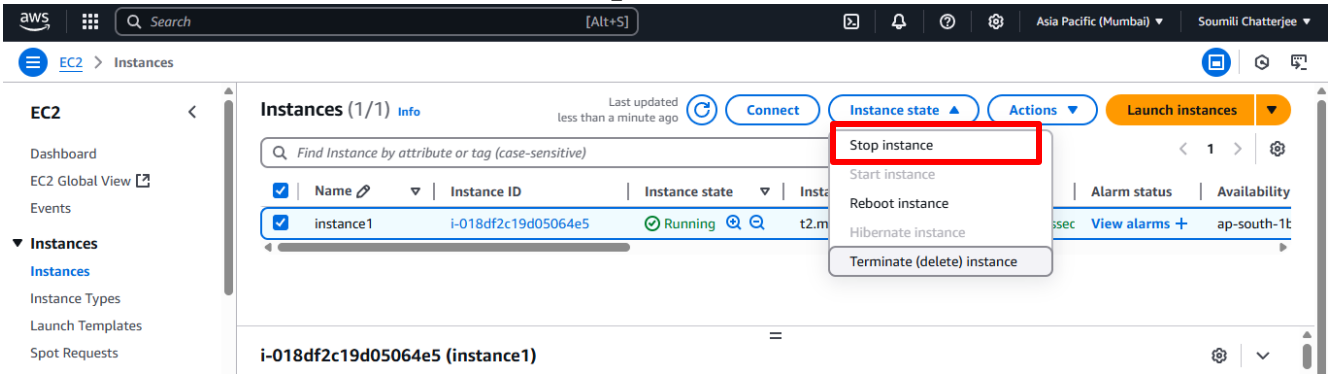
1. **Sign In** to the **AWS** account.
2. Create an **EC2 instance**.



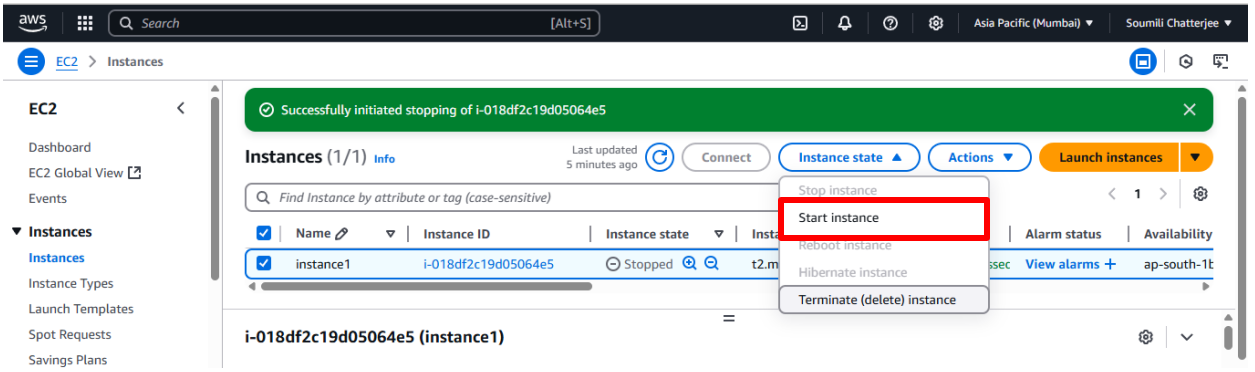
3. After the instance gets created, click on the **instance id**. Copy the **public IPv4 address** and paste it in notepad.



4. Now, go back to the instances list and **select the instance**. After selection, click on **Instance state** and then click on **stop instance**.



5. Wait for a few seconds. Now, again select the instance and click on Instance state and then click on **start instance**.

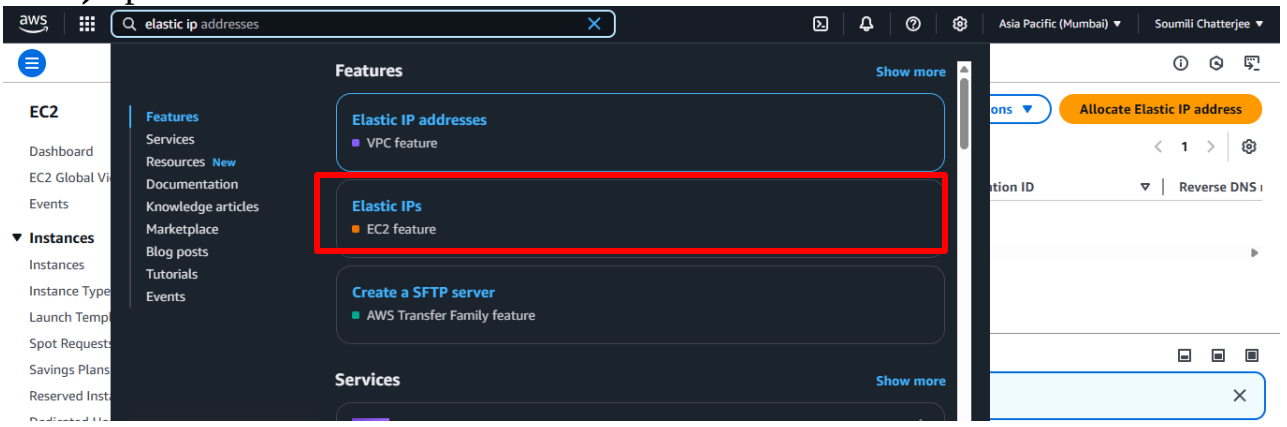


6. Click on the **instance id** and copy the **IPv4 address** again and paste it underneath the previous one. Now, compare both the new and old IP address and notice that they are not the same.

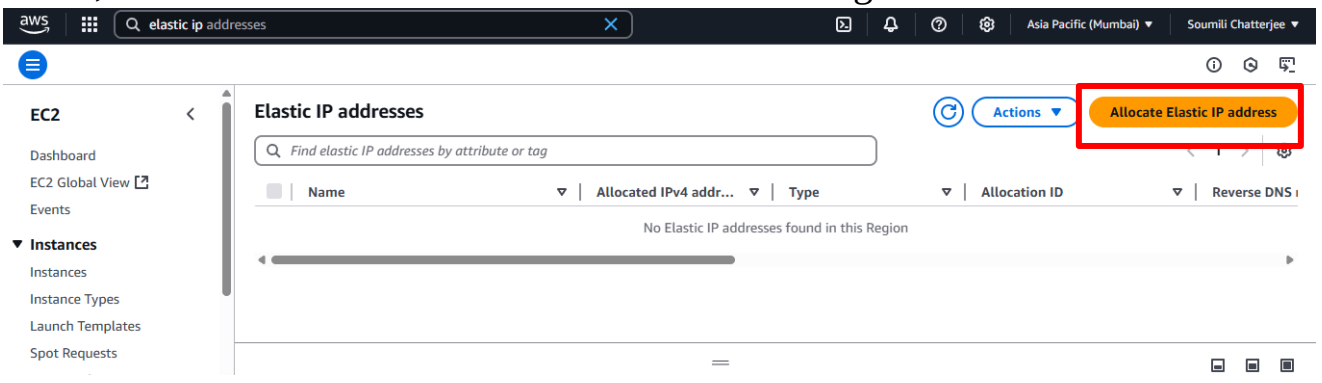
```
15.206.203.49
3.108.52.56
```

To overcome this issue, we use Elastic IP.

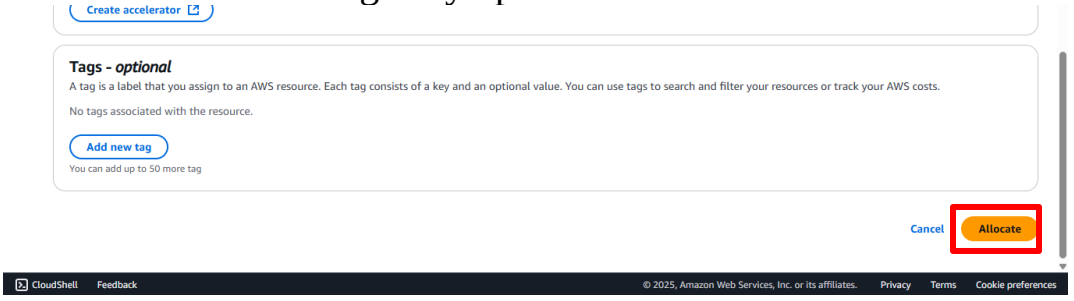
7. Search for **elastic ip address** in the search bar. Select **Elastic IP addresses (EC2 feature)** option.



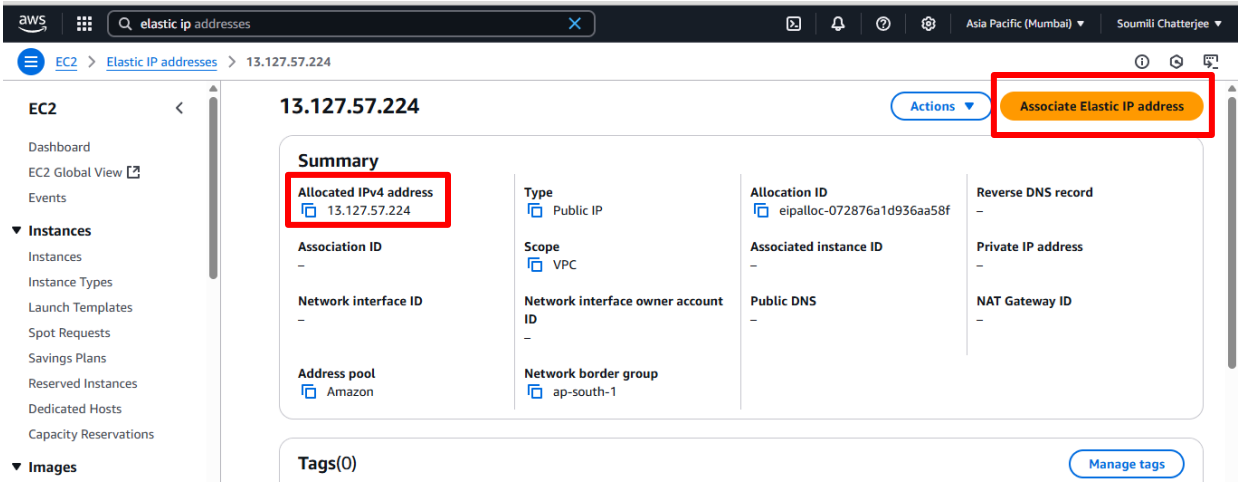
8. Now, click on **Allocate Elastic IP address** on the right side.



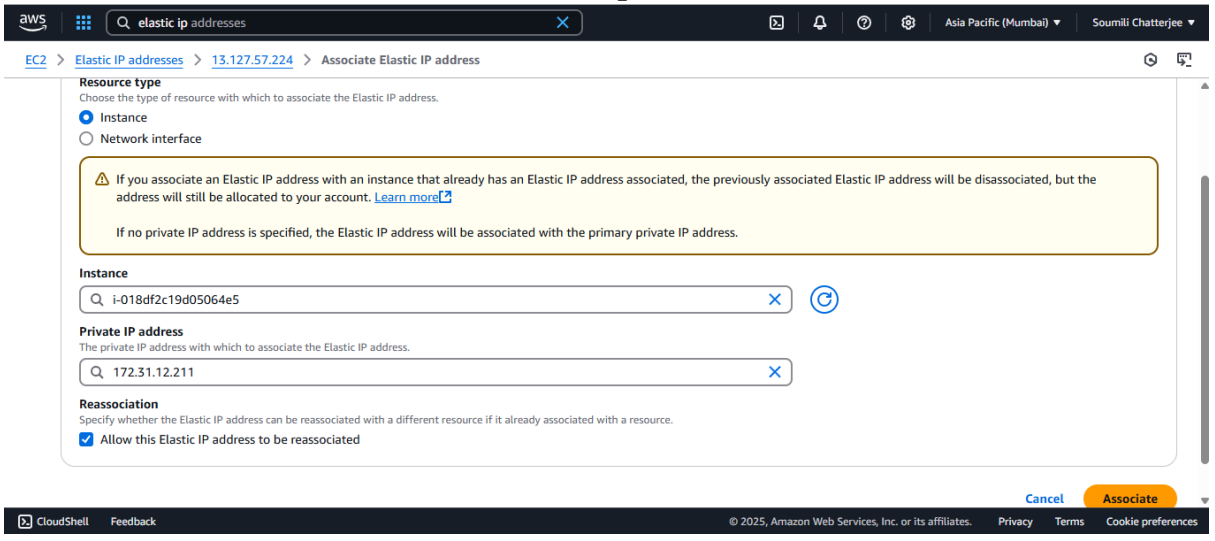
No need to change any options. Just click on **Allocate**.



9. Now, click on the **Elastic IP address**. Copy the **IPv4 address** and paste it in the same file. Next, click on **Associate Elastic IP address**.

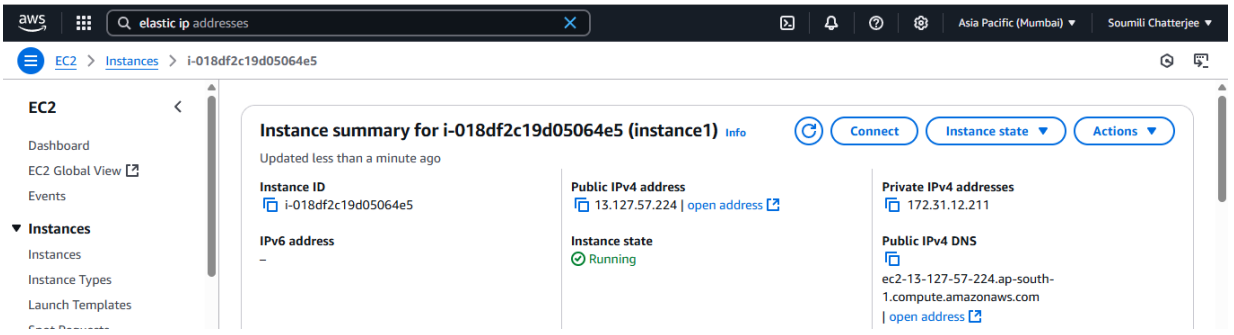


10. Choose the **resource type** as **instance**, select the **running instance** under **instance** option, also select the **private IP address** from the option and under **reassociation check the box** which allows the **Elastic IP address to be reassociated** and then click on **Associate** option.



The Elastic IP should have been successfully associated with the instance.

11. Next, go to **EC2 Dashboard** and click on **Instances**. **Select the instance** and click on **Instance state** and then click on **stop instance.** Wait for a few seconds and again select the instance and click on Instance state and then click on **start instance**.



You will notice that the public IPv4 address remains same.

```
15.206.203.49 //ip pool
3.108.52.56

13.127.57.224 //fixed
13.127.57.224
```

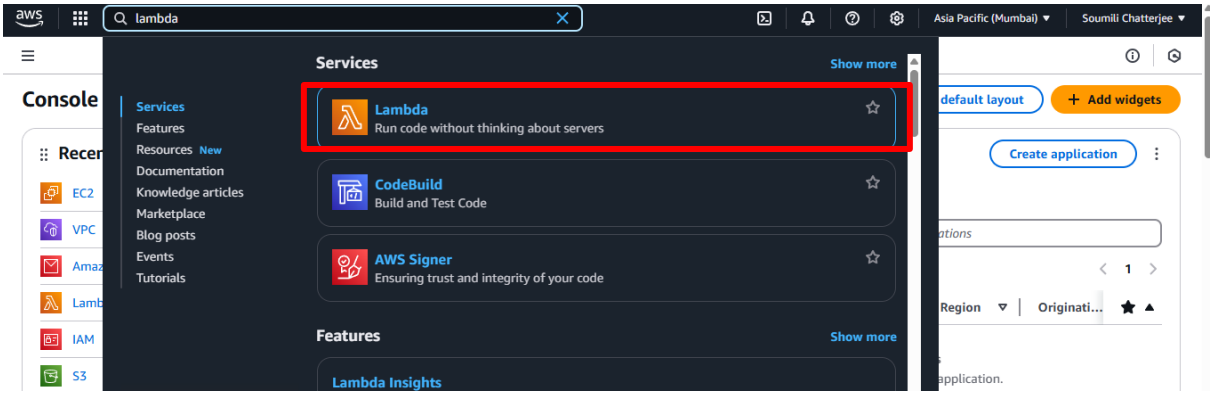
Hence, we have successfully created an Elastic IP for an instance.

Assignment No. – 15

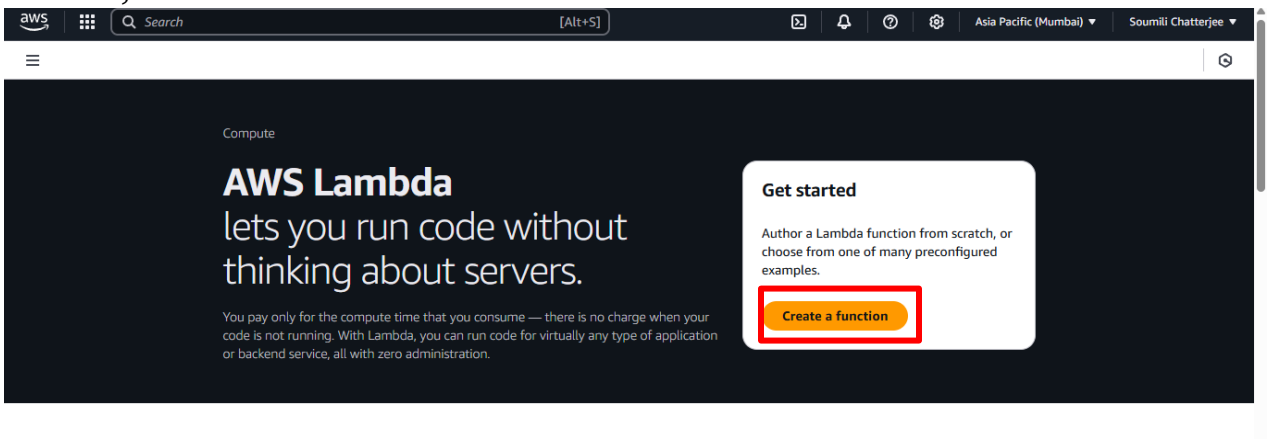
Problem Statement: Create a Serverless computing service.

Procedure:

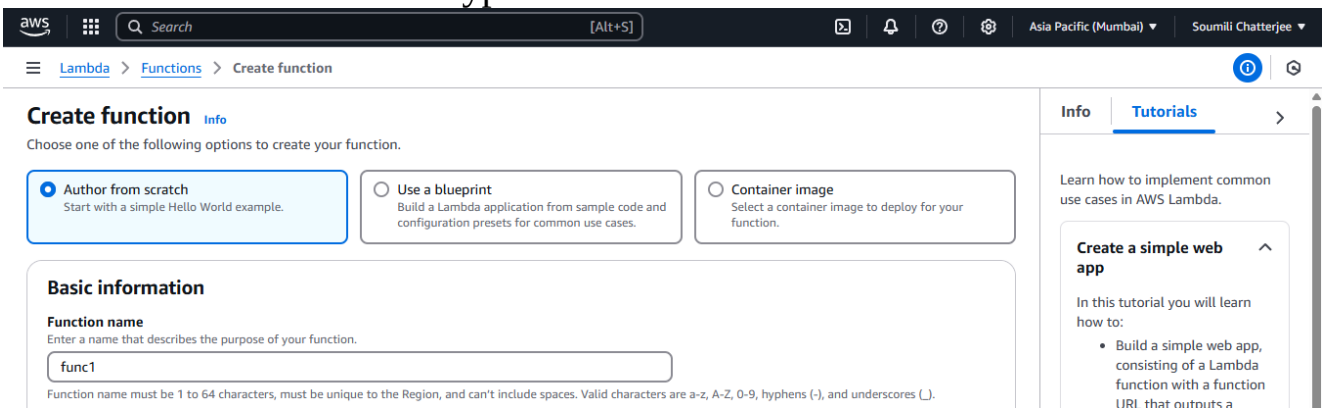
1. **Sign In** to the **AWS** account.
2. Search for **lambda** in the search bar and **click** on it.

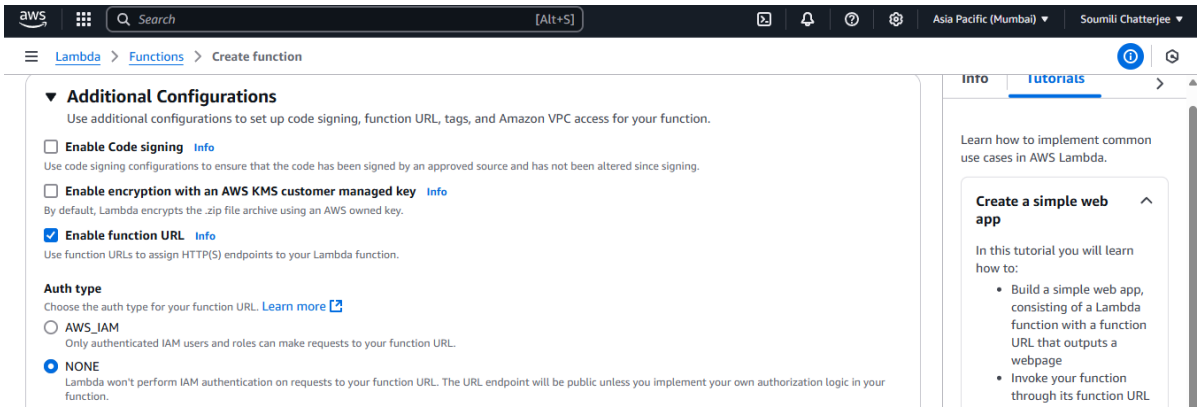


3. Now, click on **Create Function**.

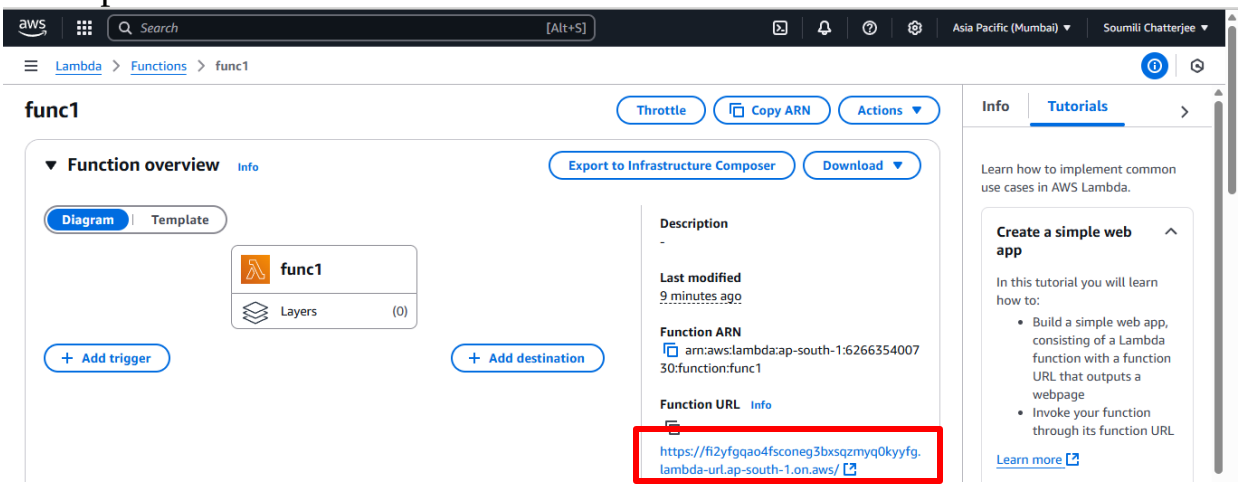


4. Under **Create function**, select **author from scratch,** give a **function name,** then scroll down and click on **additional configurations** and check the **enable function URL** box and select the auth type as **none** and then click on **create function**.

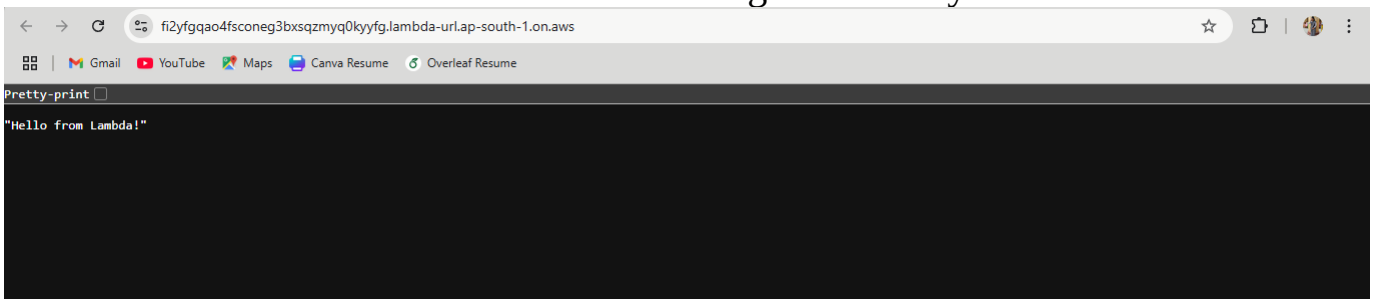




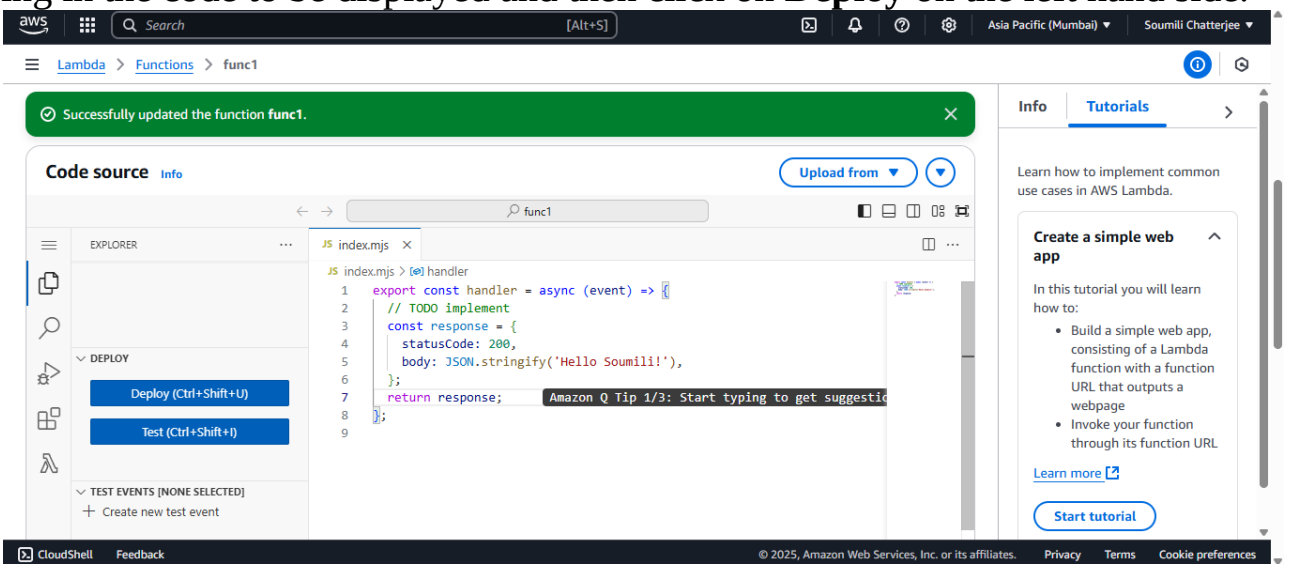
5. A default code is given, first we will execute it and for that copy the **function URL** and paste it in a new window.



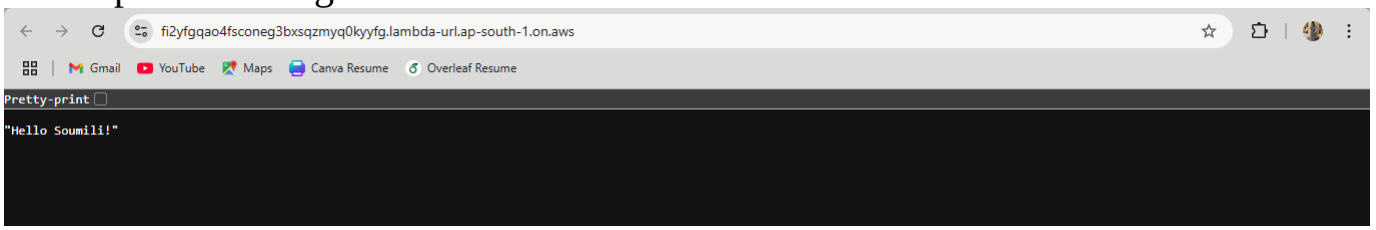
6. You will notice that the function is executing without any server.



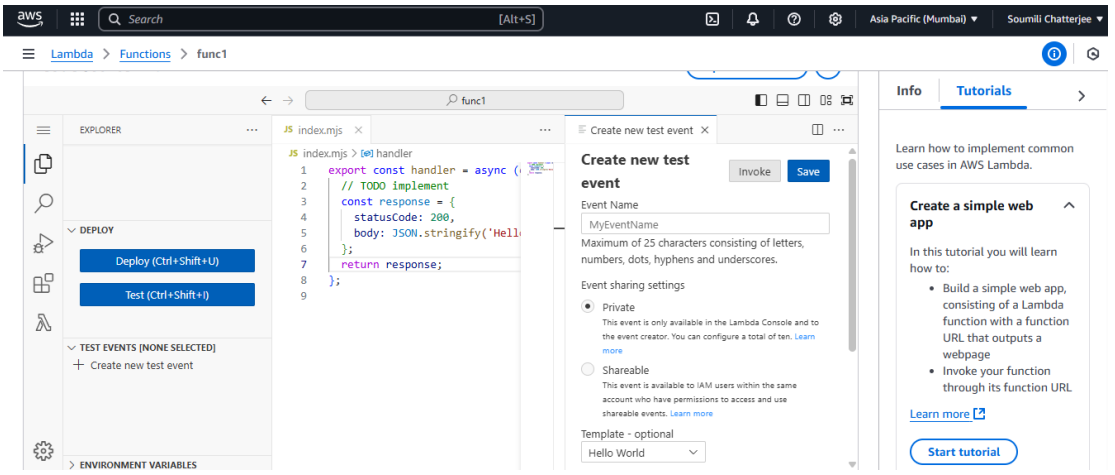
7. Now scroll down to the code section of the newly created function. Change the string in the code to be displayed and then click on **Deploy** on the left hand side.



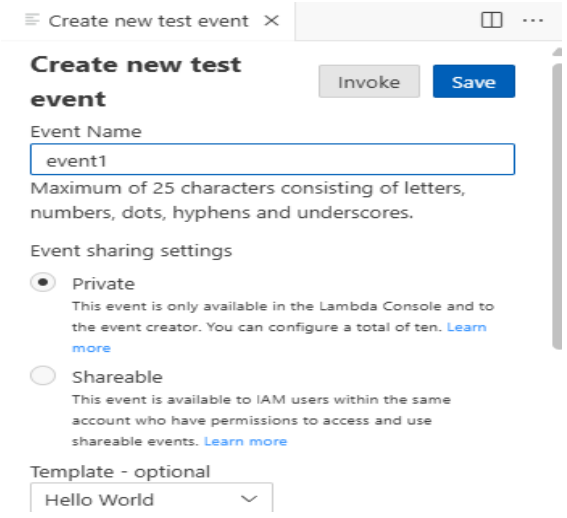
8. Again, copy the **function URL** and paste it in a new window and check whether the output has changed.



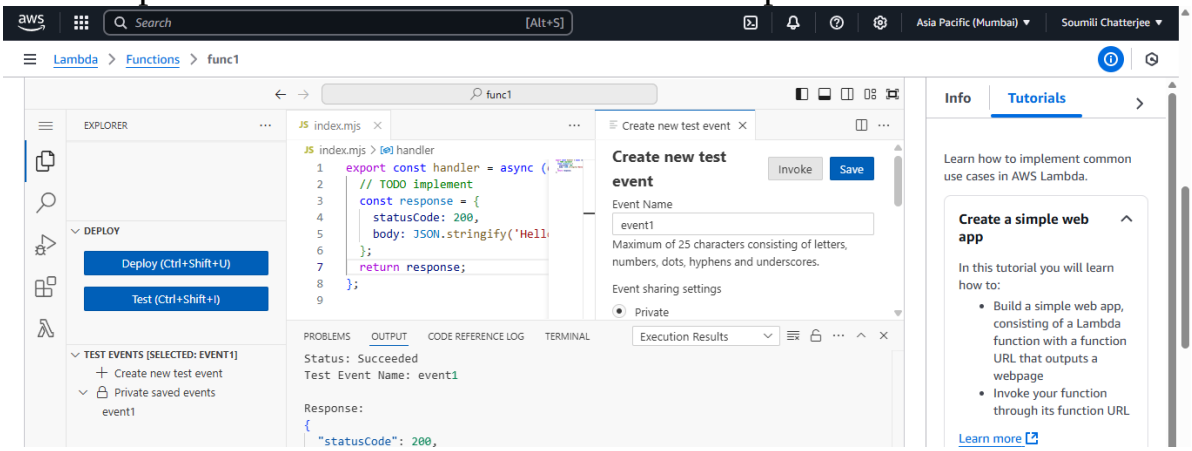
9. Next, click on **Test** under **code section** and then click on **create a new test event**.



10. Give the **event name**, and then click on **save**.



11. Again, click on **Test** and the **Test window** appears at the bottom where you can see the errors present in the code and if no errors are present it will show successful.



Hence, we have successfully created a Serverless Computing service.