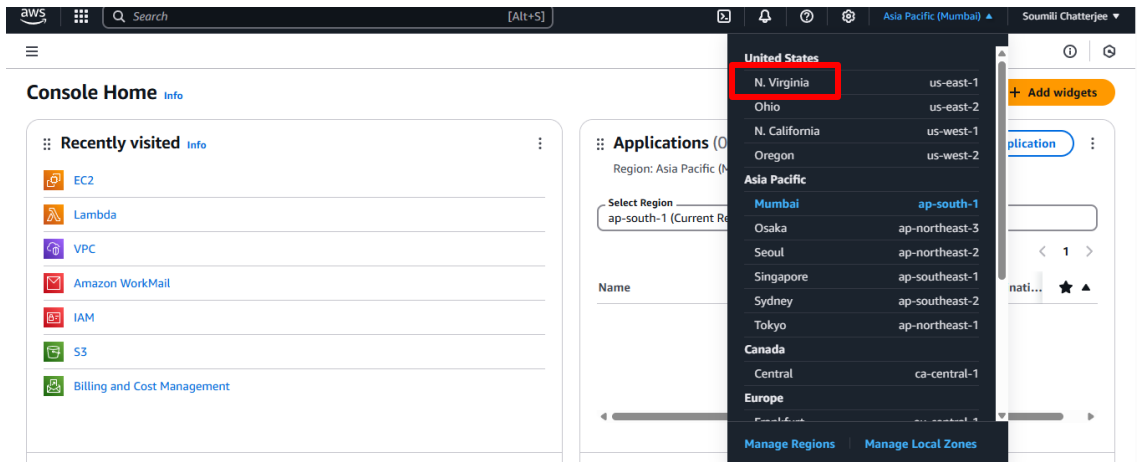


## Assignment No. – 13

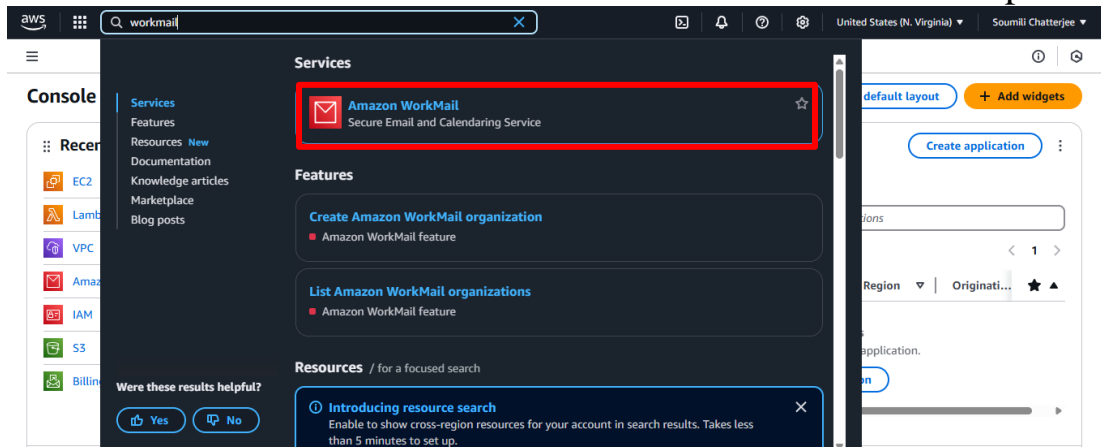
**Problem Statement:** Create a workmail for your organization.

### **Procedure:**

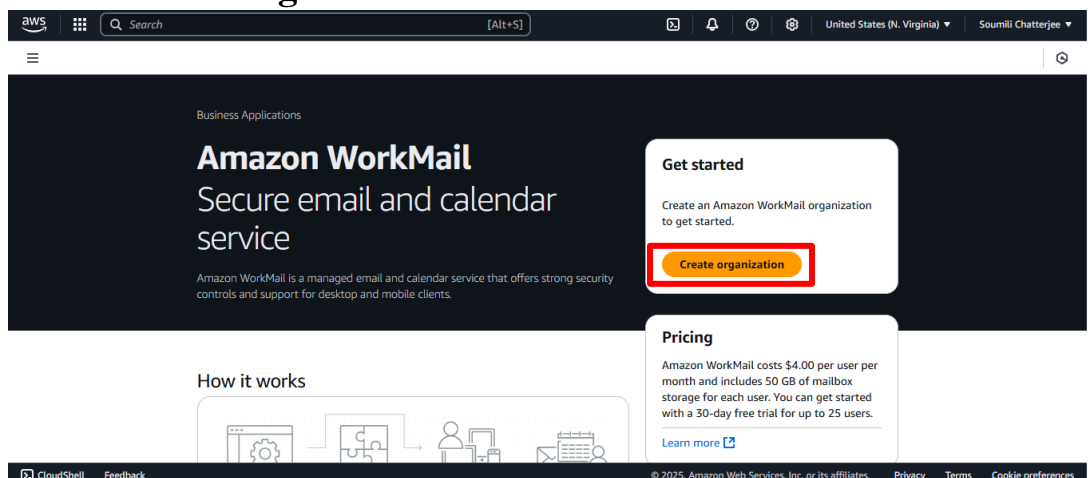
1. **Sign In** to the **AWS** account.
2. Change the **region** to **N.Virginia** from the dropdown on the left-side of the username.



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**.

aws Search [Alt+S] United States (N. Virginia) Soumili Chatterjee

Amazon WorkMail > Organizations > Create organization

- ☐ Existing Route 53 domain  
Select a domain name that you manage with a Route 53 hosted zone.
- ☐ New Route 53 domain  
Register a new Route 53 domain name to use with Amazon WorkMail.
- ☐ External domain  
Enter a domain name that you manage with an external DNS provider.
- ☒ Free test domain  
Use a free testing domain provided by Amazon WorkMail. You can add a domain later.

**Alias** Info  
Enter the alias to use for your organization.  
mckv155  
Your alias can have up to 45 characters. Aliases can only include lowercase letters (a-z), numbers (0-9), and dashes (-). This determines the login URL for the web application: mckv155.awsapps.com/mail

Advanced settings

Cancel **Create organization**

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

aws Search [Alt+S] United States (N. Virginia) Soumili Chatterjee

Amazon WorkMail > Organizations

**Amazon WorkMail**  
Organizations  
What's new  
Amazon Simple Email Service

**Your organization is now ready to use**  
Go to the [Organization details](#) page for next steps.

**Organizations (1)** Info  
Find organizations  
Delete Create organization

mckv155  
Organization ID  
m-0140b87695c14fb3ad4c6dd1c5c4eb8c  
Default domain  
mckv155.awsapps.com  
State  
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.

aws Search [Alt+S] United States (N. Virginia) Soumili Chatterjee

Amazon WorkMail > Organizations > mckv155 > Domains

**Amazon WorkMail**  
Organizations  
What's new  
Organization  
Users  
Groups  
Resources  
Identity Center New  
Domains

**Domains (1)** Info  
Find domains  
Set as default Remove Add domain

Domain	Domain status	Default domain
mckv155.awsapps.com	Verified	Default

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

aws Search [Alt+S] United States (N. Virginia) Soumili Chatterjee

Amazon WorkMail > Organizations > mckv155 > Users

**Amazon WorkMail**  
Organizations  
What's new  
Organization  
Users  
Groups  
Resources  
Identity Center New  
Domains  
Mobile policies

**Users (0)** Info  
Delete Disable Enable Reset password **Add user**

Select search column  
Find users  
Username  
Username Display name Primary email address State  
No users to display.

## 9. Give username, firstname and lastname.

aws Search [Alt+S] United States (N. Virginia) Soumili Chatterjee

Amazon WorkMail > Organizations > mckv155 > Users > Add user

### Add a user [Info](#)

Add a user to your Amazon WorkMail organization.

#### User details

**Username**  
The username enables the user to login to the Amazon WorkMail webmail.  
  
Username can only contain the following characters: a-z, A-Z, 0-9, \_ (underscore) - (hyphen) and . (dot); or it has to be a valid email address.

**First name - optional**

**Last name - optional**

**Display name**  
The name by which the user is presented in the system.

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

aws Search [Alt+S] United States (N. Virginia) Soumili Chatterjee

Amazon WorkMail > Organizations > mckv155 > Users > Add user

Primary email address to be used for this user.  
 @

Advanced - optional

#### Password setup

**Password**  
Password for the user to log in with.  
  
Passwords have an 8-character minimum with at least one character from three of these four categories: lowercase, uppercase, numeric, and special characters.

**Repeat password**

Cancel **Add user**

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

aws Search [Alt+S] United States (N. Virginia) Soumili Chatterjee

Amazon WorkMail > Organizations > mckv155 > Users

### Amazon WorkMail

Organizations  
What's new

Organization  
**Users**  
Groups  
Resources  
Identity Center [New](#)

Domains

Successfully added soumili chatterjee.

#### Users (1) [Info](#)

Select search column  
 Username

	Username	Display name	Primary email address	State
<input type="checkbox"/>	soumili	soumili chatterjee	soumili@mckv155.awsapps.c...	Enabled

#### Organization details [Info](#)

<b>Organization ID</b> m-0140b87695c14fb3ad4c6dd1c5c4eb8c	<b>State</b> Active	<b>Directory type</b> WorkMail directory
<b>ARN</b> arn:aws:workmail:us-east-1:626635400730:organization/m-0140b87695c14fb3ad4c6dd1c5c4eb8c	<b>Date created</b> April 26, 2025 at 10:38 (UTC+5:30)	<b>Directory ID</b> d-906631483c
<b>Default domain <a href="#">Info</a></b> mckv155.awsapps.com		

#### User login

Desktop or mobile apps  
[WorkMail documentation for setting up email clients](#)

Amazon WorkMail web application  
<https://mckv155.awsapps.com/mail>

Amazon WorkMail > Organizations > mckv155

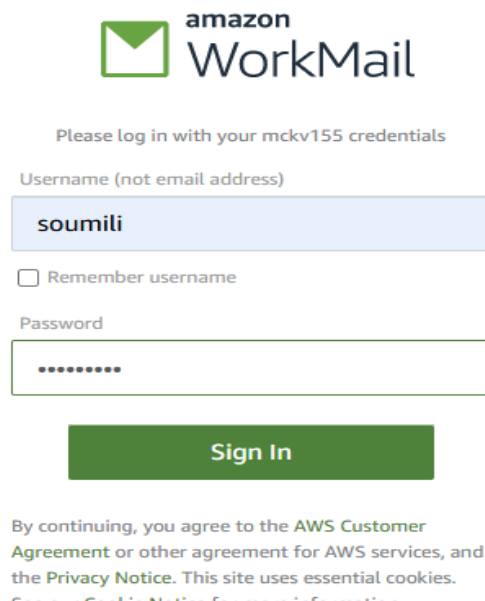
Amazon WorkMail  
Organizations  
What's new

Organization  
**Users**  
Groups  
Resources  
Identity Center [New](#)

Domains  
Mobile policies

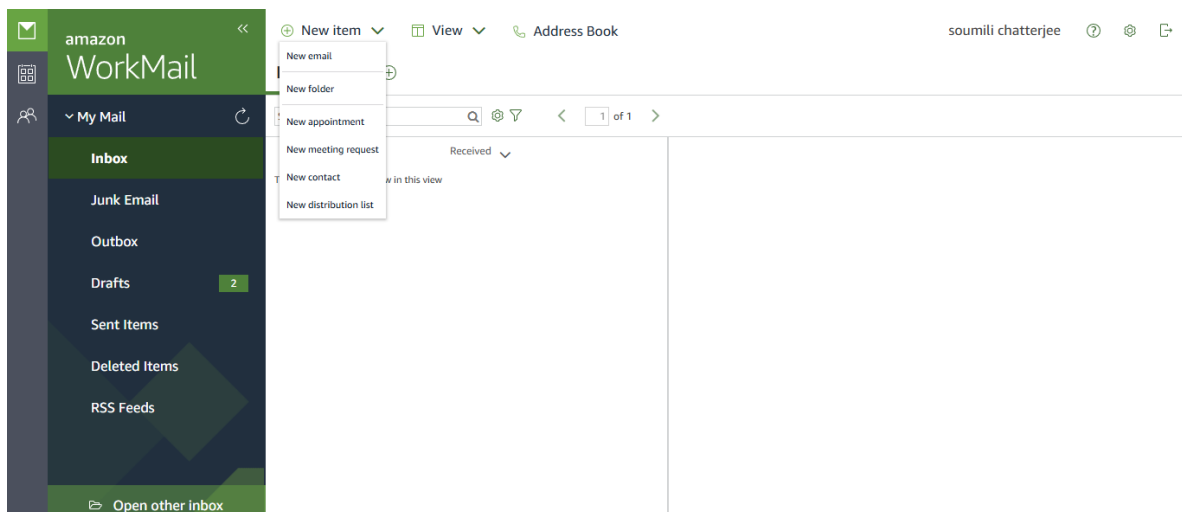
Organization settings

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

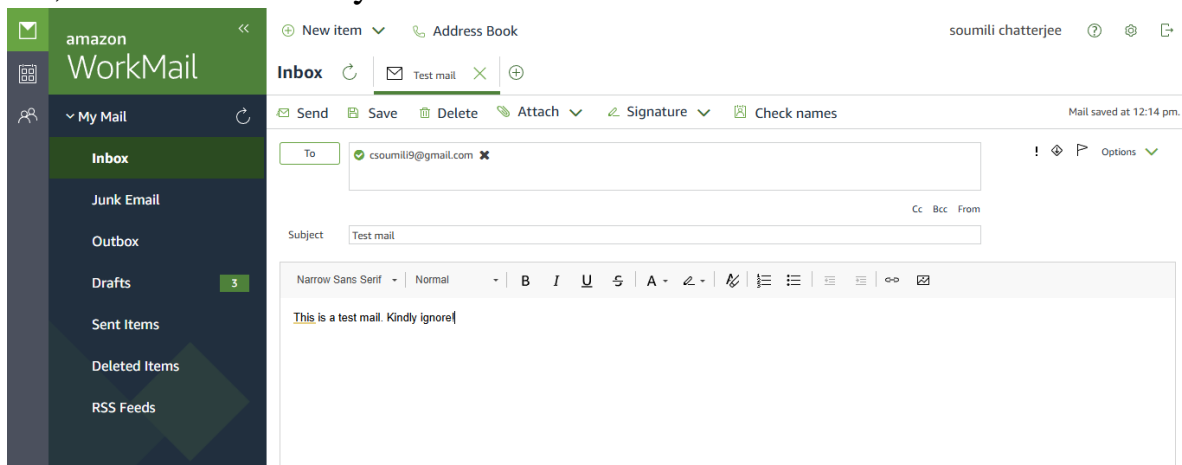


The image shows the Amazon WorkMail login interface. At the top is the Amazon WorkMail logo. Below it, a message says "Please log in with your mckv155 credentials". There are two input fields: "Username (not email address)" with the value "soumili" and "Password" with masked characters. A "Remember username" checkbox is between the fields. A green "Sign In" button is at the bottom. Below the button, a disclaimer states: "By continuing, you agree to the AWS Customer Agreement or other agreement for AWS services, and the Privacy Notice. This site uses essential cookies."

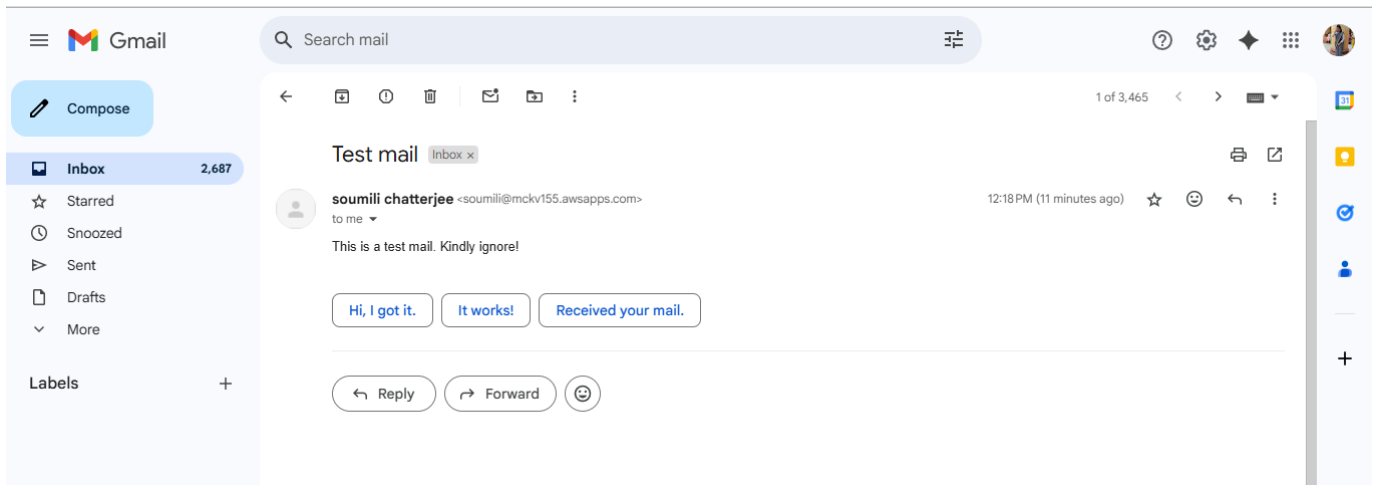
13. Send a mail to your Gmail from this by creating a mail using the **new item** option and then click on **new email**.



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



15. Check Gmail.



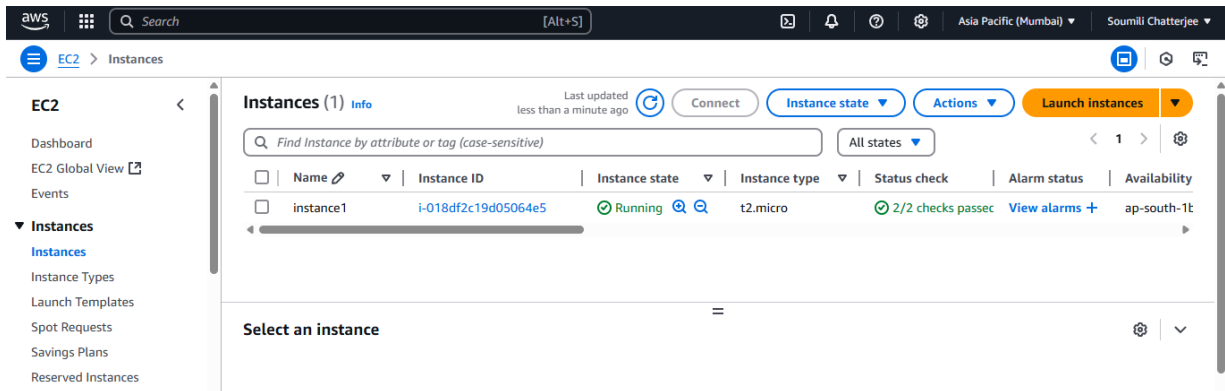
As, our mail is working perfectly fine, therefore we have successfully created a workmail for our profile.

## Assignment No. – 14

**Problem Statement:** Create an Elastic IP for an Instance.

### Procedure:

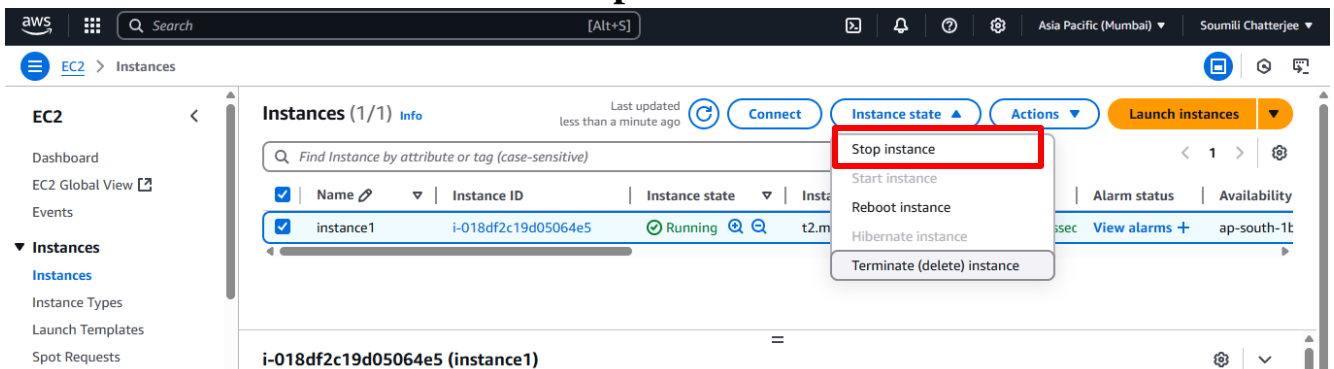
1. **Sign In** to the AWS account.
2. Create an **EC2 instance**.



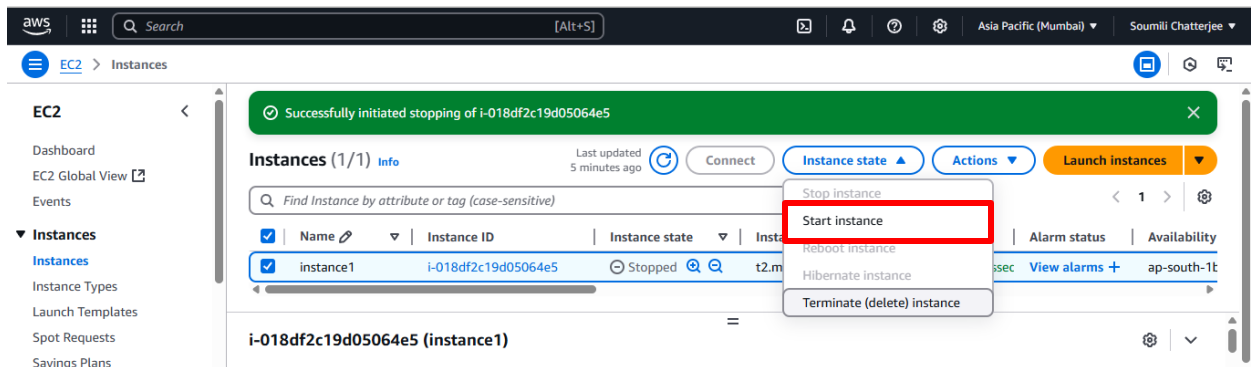
3. After the instance gets created, click on the **instance id**. Copy the **public IPv4 address** and paste it in notepad.



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**.

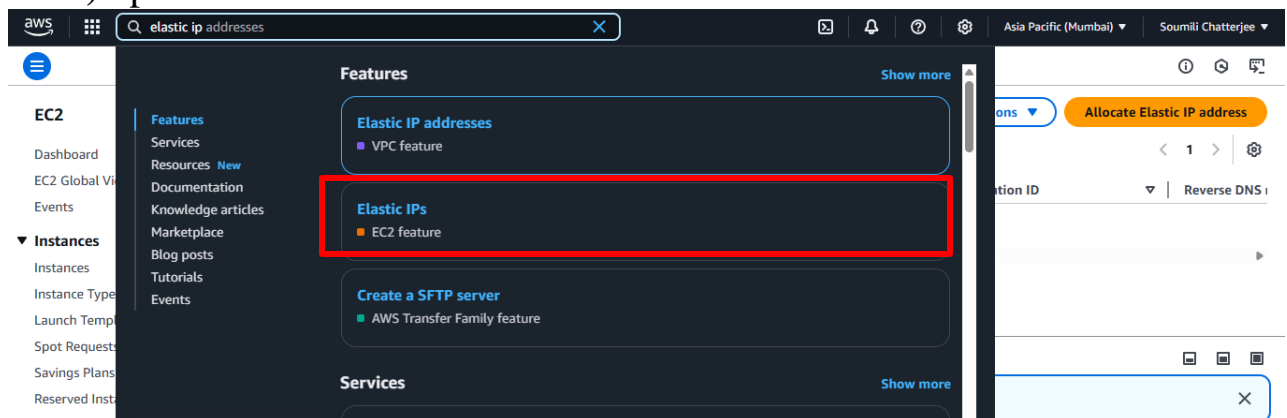


6. Click on the **instance id** and copy the **IPv4 address** again and paste it underneath the previous one. Now, compare both the new and old IP address and notice that they are not the same.

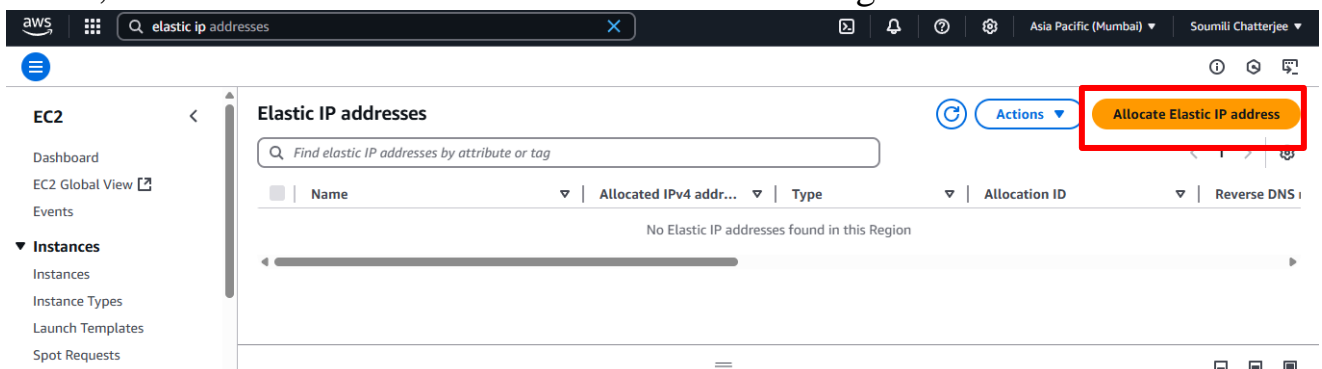
```
15.206.203.49
3.108.52.56|
```

To overcome this issue, we use Elastic IP.

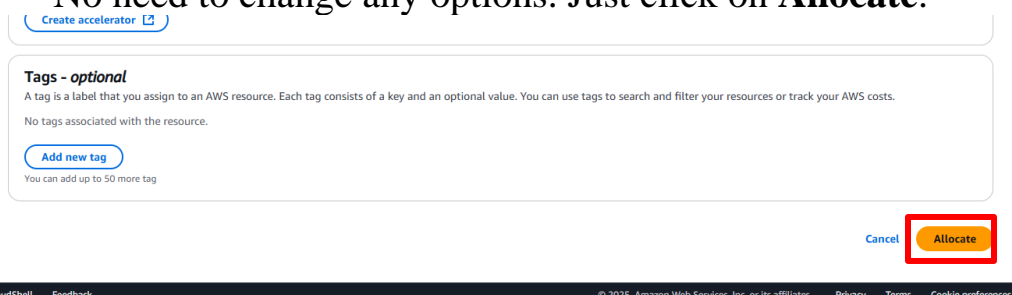
7. Search for **elastic ip address** in the search bar. Select **Elastic IP addresses (EC2 feature)** option.



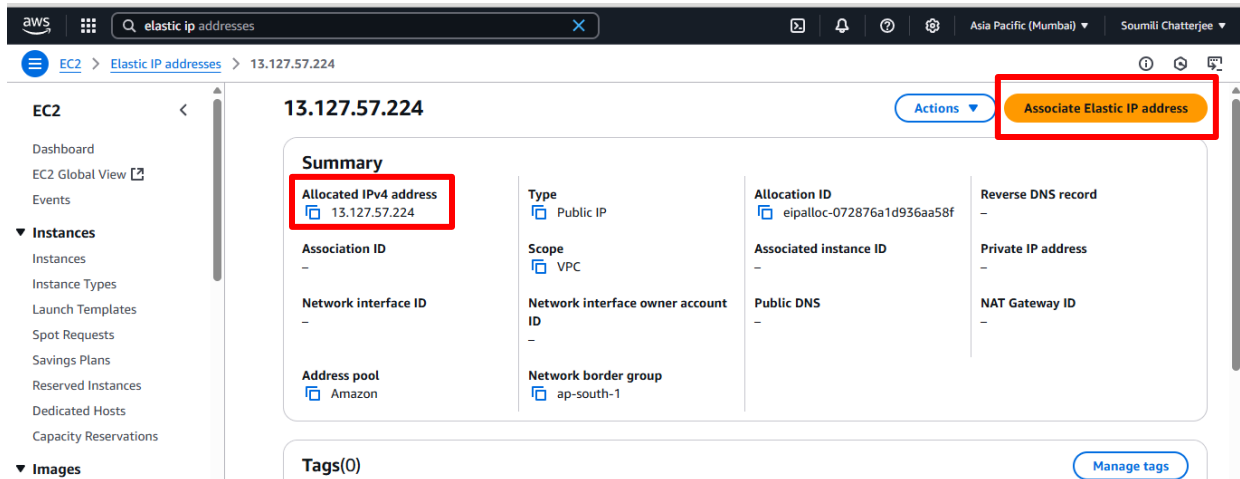
8. Now, click on **Allocate Elastic IP address** on the right side.



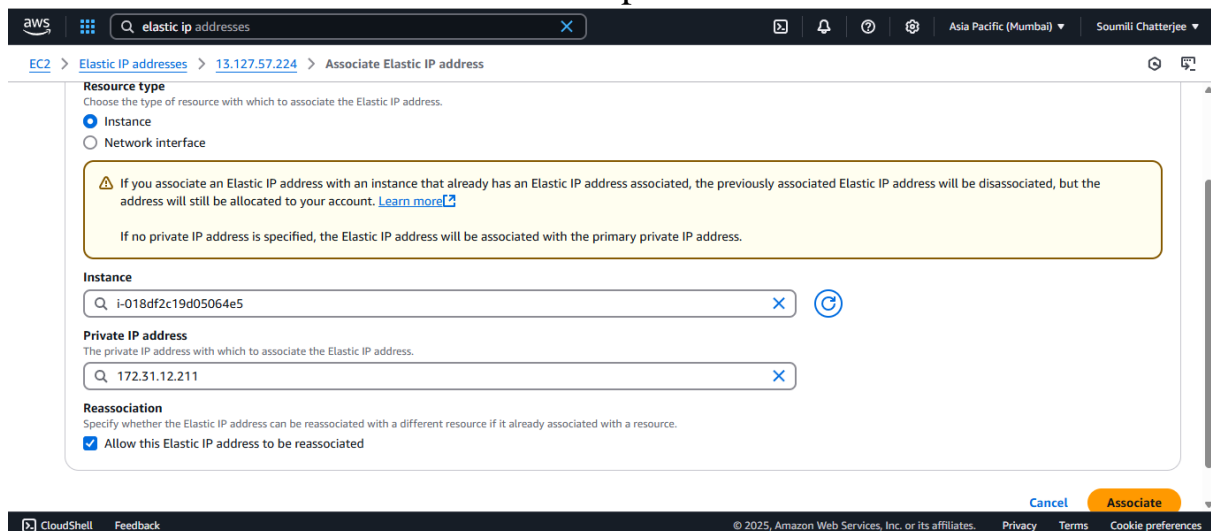
No need to change any options. Just click on **Allocate**.



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.

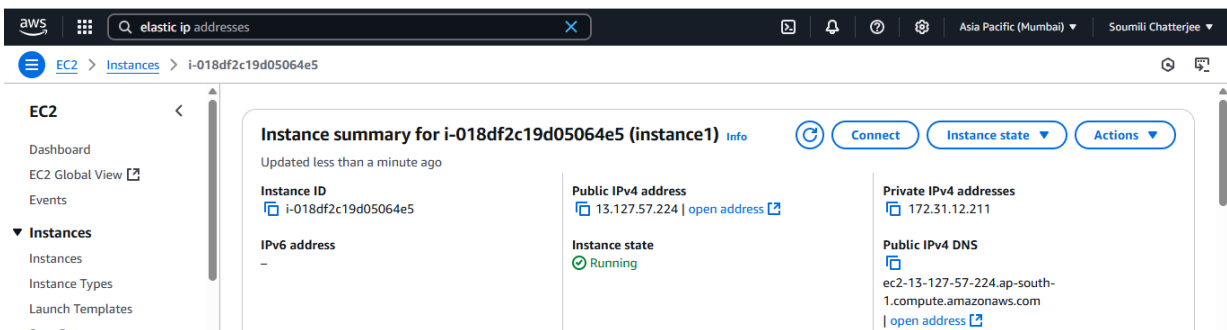


10. Choose the **resource type** as **instance**, select the **running instance** under **instance** option, also select the **private IP** address from the option and under **reassociation** check the box which allows the **Elastic IP** address to be **reassociated** and then click on **Associate**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

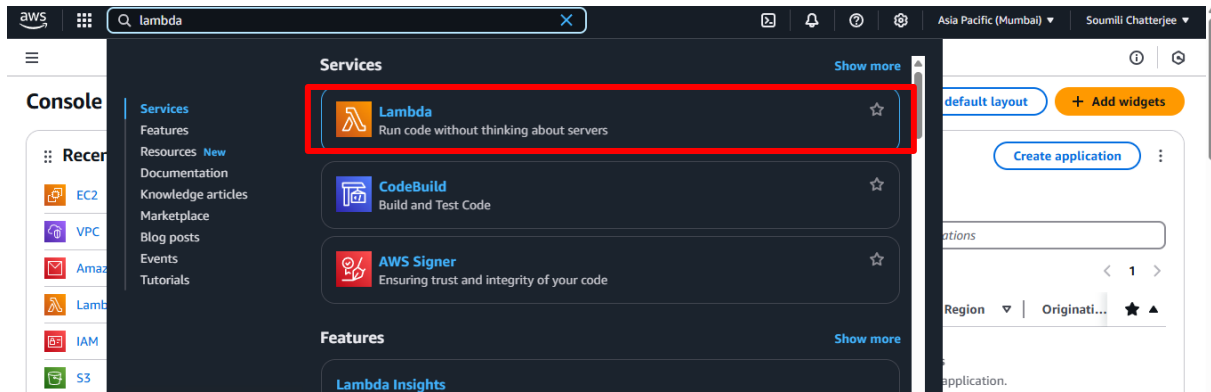
Hence, we have successfully created an Elastic IP for an instance.

## Assignment No. – 15

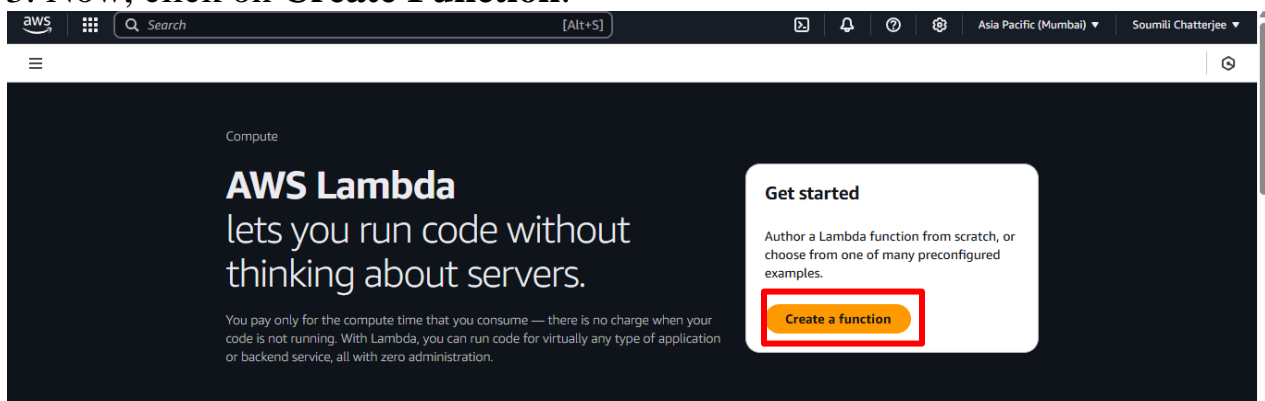
**Problem Statement:** Create a Serverless computing service.

### **Procedure:**

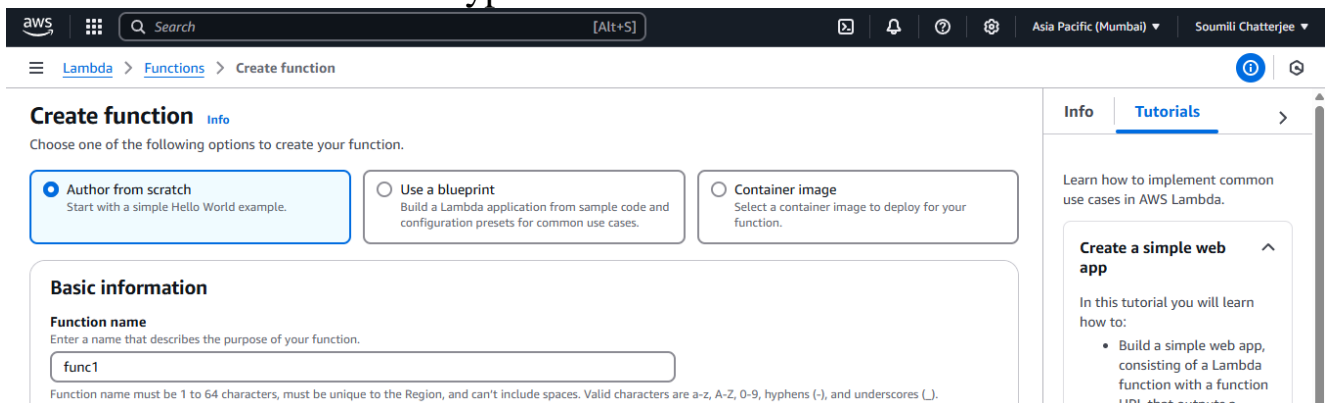
1. **Sign In** to the **AWS** account.
2. Search for **lambda** in the search bar and **click** on it.

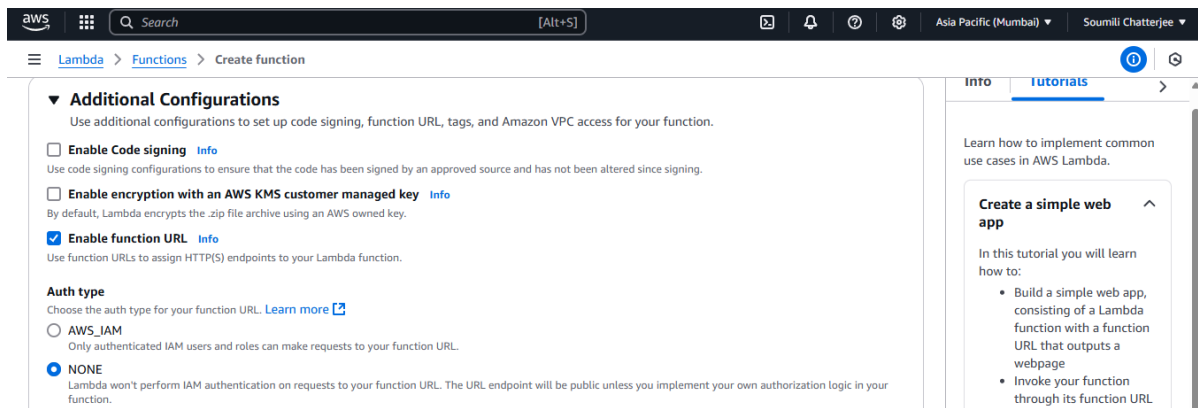


3. Now, click on **Create Function**.

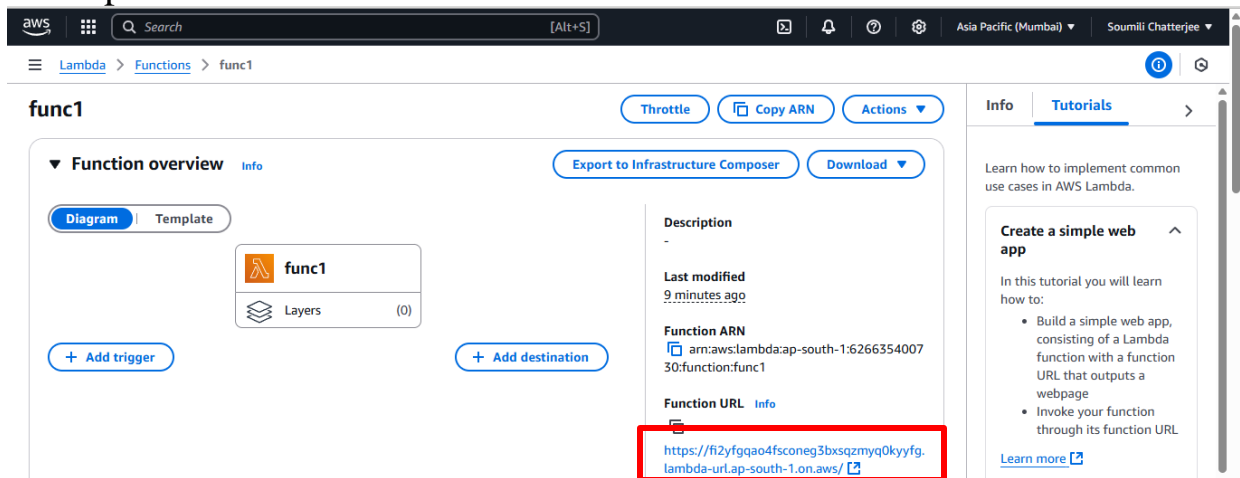


4. Under **Create function**, select **author from scratch**, give a **function name**, then scroll down and click on **additional configurations** and check the **enable function URL** box and select the auth type as **none** and then click on **create function**.

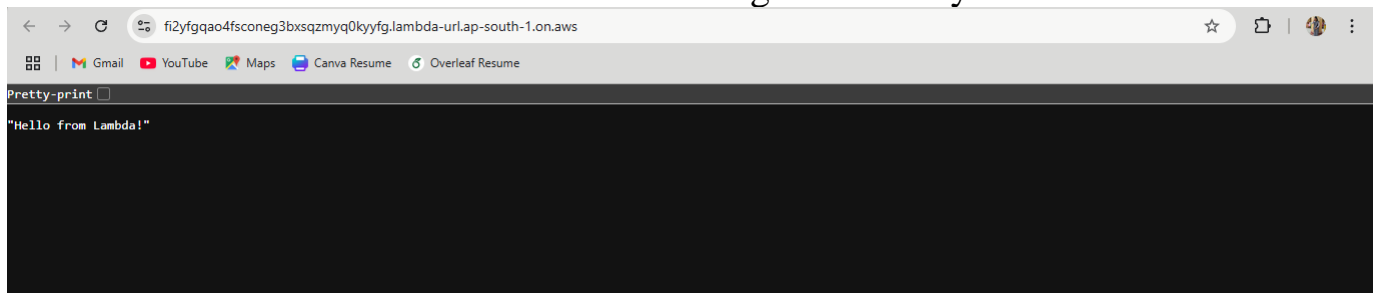




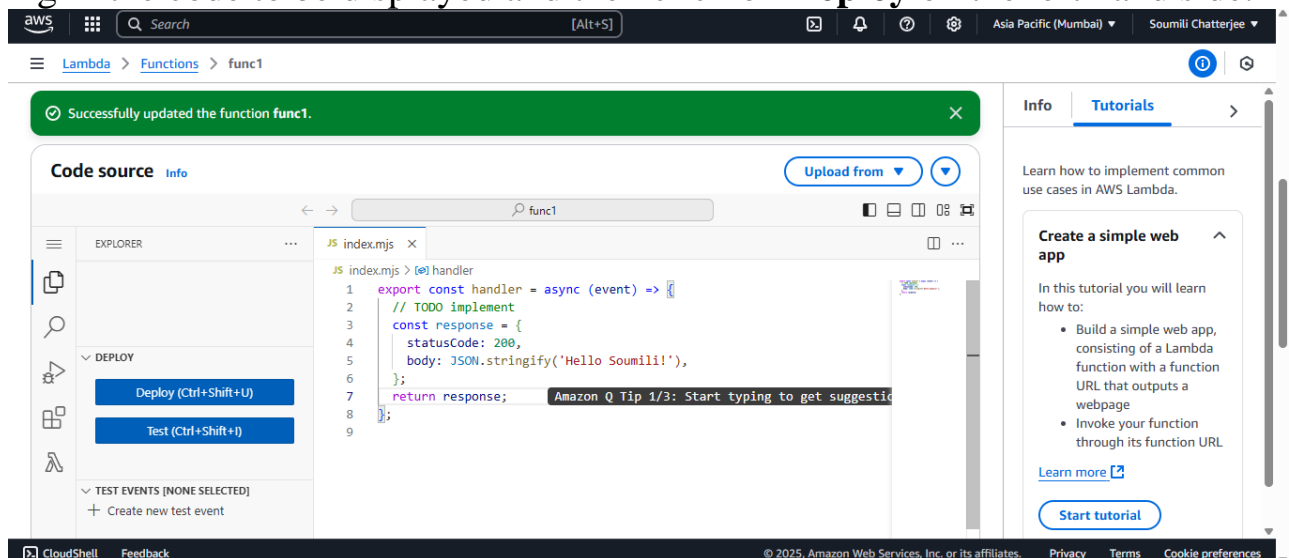
5. A default code is given, first we will execute it and for that copy the **function URL** and paste it in a new window.



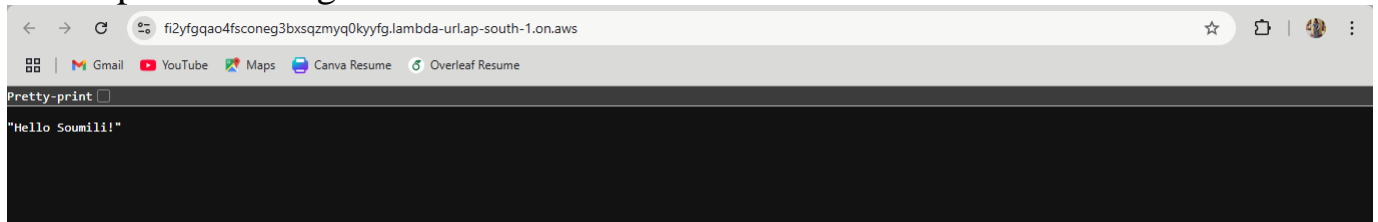
6. You will notice that the function is executing without any server.



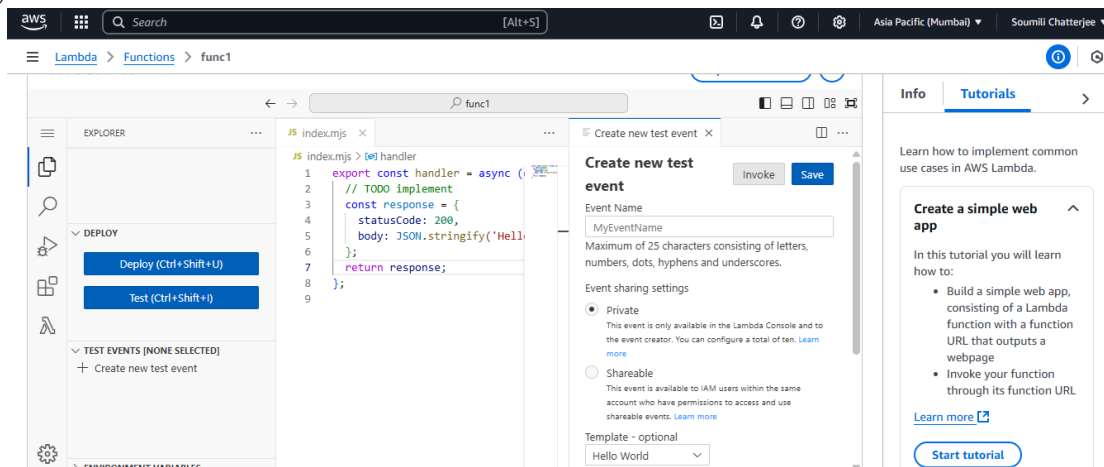
7. Now scroll down to the code section of the newly created function. Change the string in the code to be displayed and then click on **Deploy** on the left hand side.



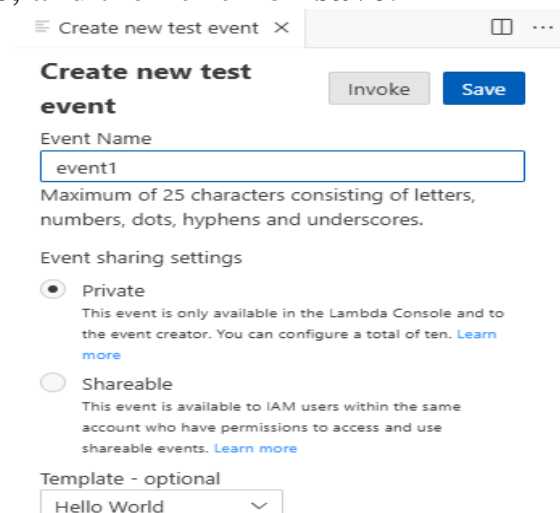
8. Again, copy the **function URL** and paste it in a new window and check whether the output has changed.



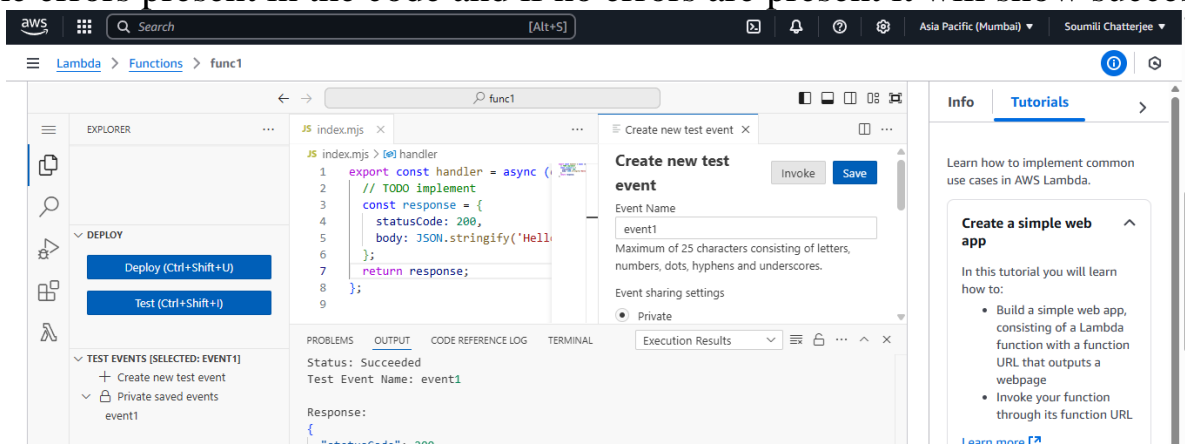
9. Next, click on **Test** under **code** section and then click on **create a new test event**.



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.