

School of Computer Science, Engineering and Applications(SCSEA)

B.C.A. TY (CCSA)

Subject : Infrastructure Orchestration (P)

Name of the Student: Pournima Mohan Patil

PRN: 20220801010

Title of Practicle : Multi website hosting on Ec2

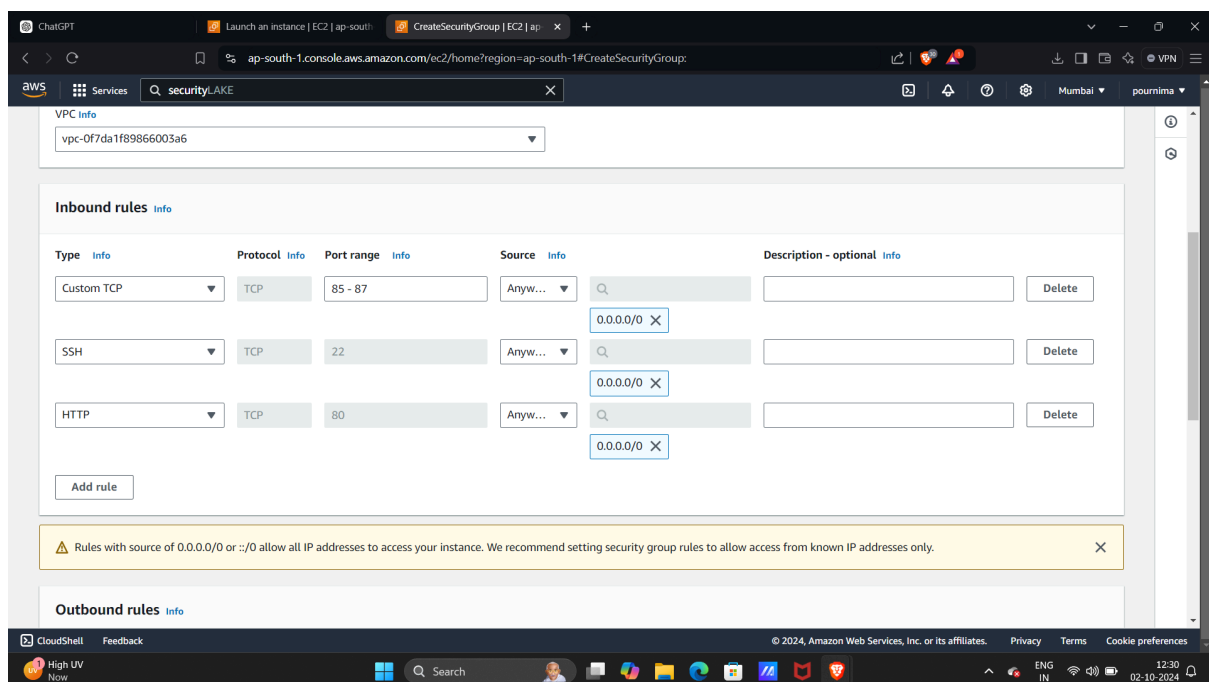
Step 1: Create a Security Group for the AWS Instance

Create a new security group for your AWS instance and add the following rules:

Inbound: Custom TCP rule: port 85-86-88

HTTP rule: port 80

SSH rule: port 22



Outbound: SSH rule: port 22

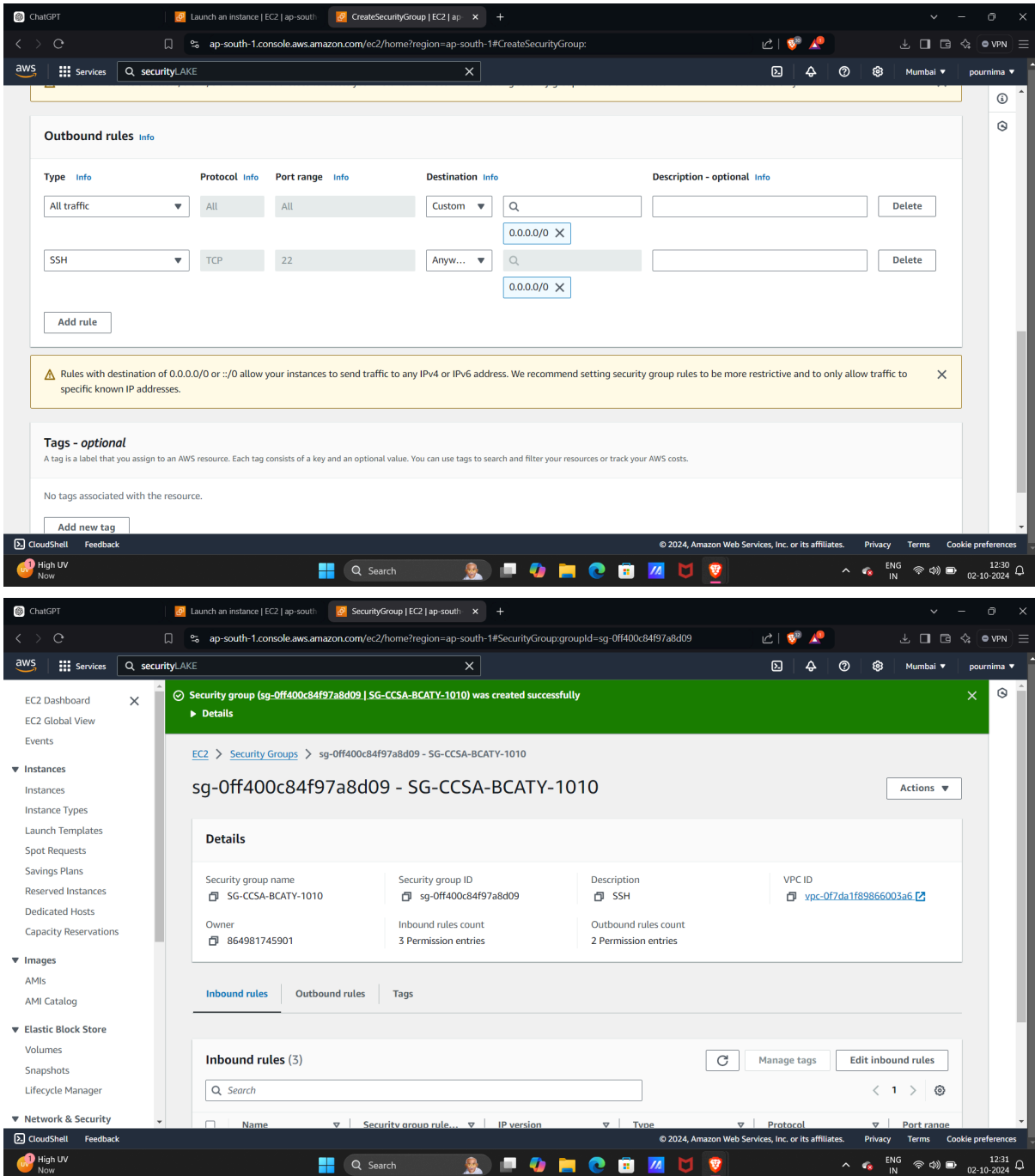
All traffic: allow all traffic

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The screenshot displays the AWS Management Console interface for configuring a Security Group. The top section, titled "Outbound rules", shows a table with columns for Type, Protocol, Port range, Destination, and Description. Two rules are listed: "All traffic" (Type: All, Protocol: All, Port range: All, Destination: Custom, 0.0.0.0/0) and "SSH" (Type: SSH, Protocol: TCP, Port range: 22, Destination: Anyw..., 0.0.0.0/0). A warning message states: "Rules with destination of 0.0.0.0/0 or :::0 allow your instances to send traffic to any IPv4 or IPv6 address. We recommend setting security group rules to be more restrictive and to only allow traffic to specific known IP addresses." Below this, the "Tags - optional" section indicates no tags are associated with the resource.

The bottom section shows the "Security group (sg-0ff400c84f97a8d09 | SG-CCSA-BCATY-1010) was created successfully" message. The "Details" tab is active, displaying the following information:

| Details | | | |
|---------------------|----------------------|----------------------|-----------------------|
| Security group name | Security group ID | Description | VPC ID |
| SG-CCSA-BCATY-1010 | sg-0ff400c84f97a8d09 | SSH | vpc-0f7da1f89866003a6 |
| Owner | Inbound rules count | Outbound rules count | |
| 864981745901 | 3 Permission entries | 2 Permission entries | |

The "Inbound rules" tab is also visible, showing 3 inbound rules. The interface includes a sidebar with navigation options like EC2 Dashboard, Instances, Images, and Elastic Block Store.

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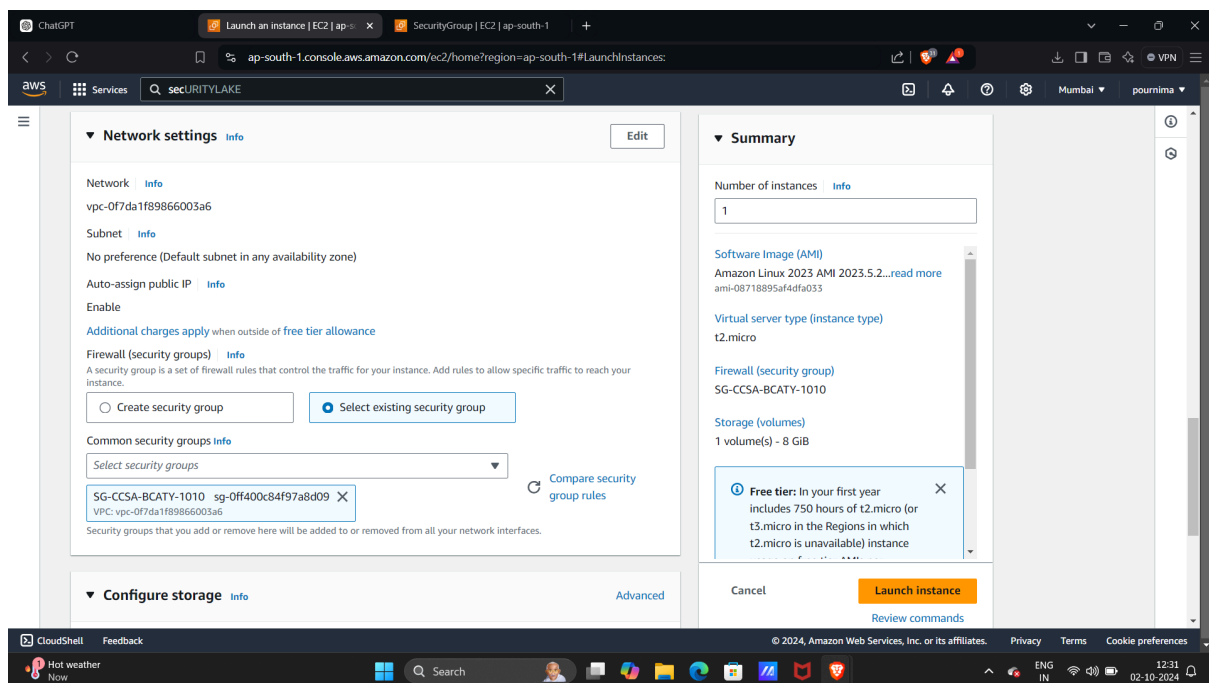
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Step 2: Launch the Instance

Launch a new instance of Amazon Linux.



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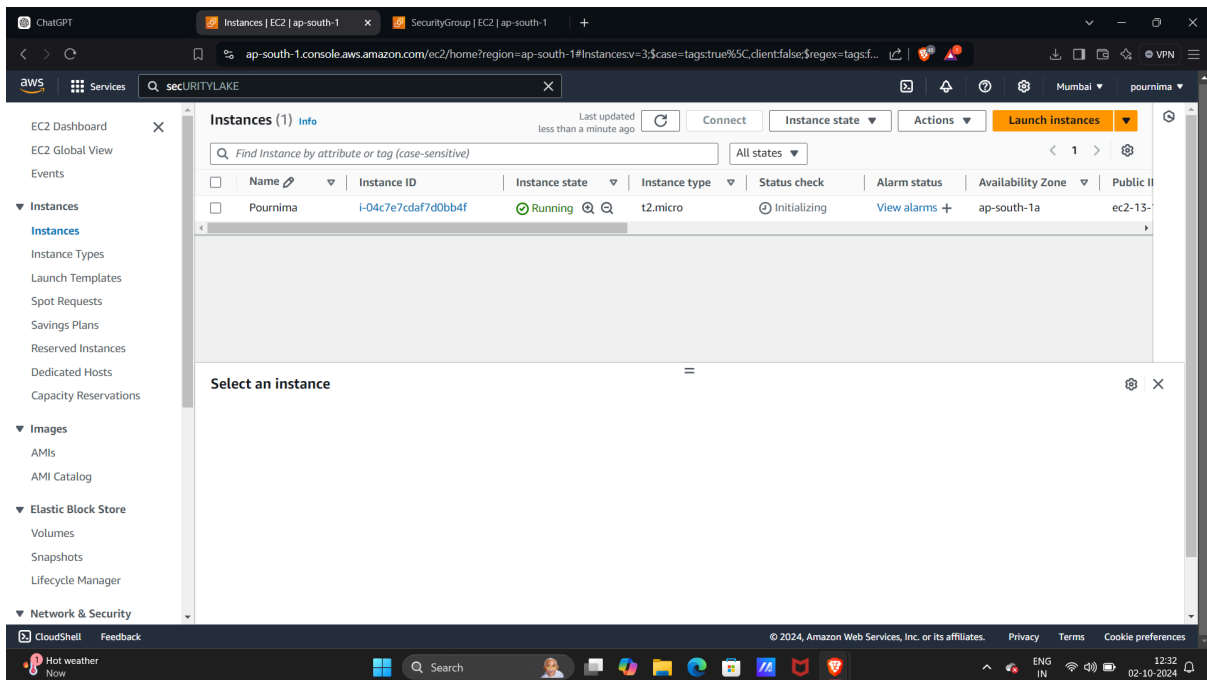
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Step 3: Connect to the Instance using SSH

Connect to the instance using SSH from your Windows terminal.

```
"ssh -i "path/to/your/pem/file" ec2-user@instance-ip-address"
```

Step 4: Update the Instance

Update the instance to ensure you have the latest packages

```
"sudo yum update -y"
```

Step 5: Install the HTTP Server

Install the HTTP server (Apache) on the instance.

```
"sudo yum install httpd -y"
```

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Step 6: Create Directories for Each Website

Create directories for each website.

```
"sudo mkdir -p /var/www/web1 /var/www/web2 /var/www/web3"
```

Step 7: Create an index.html File in the Home Directory

Create an index.html file in the home directory.

```
"sudo nano index.htm"
```

Step 8: Copy the index.html File to Each Website Directory

Copy the index.html file to each website directory.

```
"sudo cp -r ~/index.html /var/www/web1 && sudo cp -r ~/index.html /var/www/web2 && sudo cp -r  
~/index.html /var/www/web3"
```

Step 9: Change Ownership of the Website Directories

Change ownership of the website directories to the Apache user.

```
sudo chown -R apache:apache /var/www/web1 /var/www/web2 /var/www/web3
```



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tep 10: Configure the HTTP Server

Configure the HTTP server by editing the httpd.conf file.

`"sudo nano /etc/httpd/conf/httpd.conf"`

Add the following content to the file:

Listen 85

Listen 86

Listen 88

`"<VirtualHost *:81>`

`DocumentRoot /var/www/web1`

`</VirtualHost>`

`<VirtualHost *:82>`

`DocumentRoot /var/www/web2`

`</VirtualHost>`

`<VirtualHost *:83>`

`DocumentRoot /var/www/web3`

`</VirtualHost>"`

Step 11: Start the httpd server

`"sudo systemctl start httpd"`

Step 12: Configure the DNS Settings

Configure the DNS settings to point to the instance IP address.

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DNS Settings

Note: Replace the ServerName directives with your own domain names or IP addresses.

Step 13: Restart the HTTP server

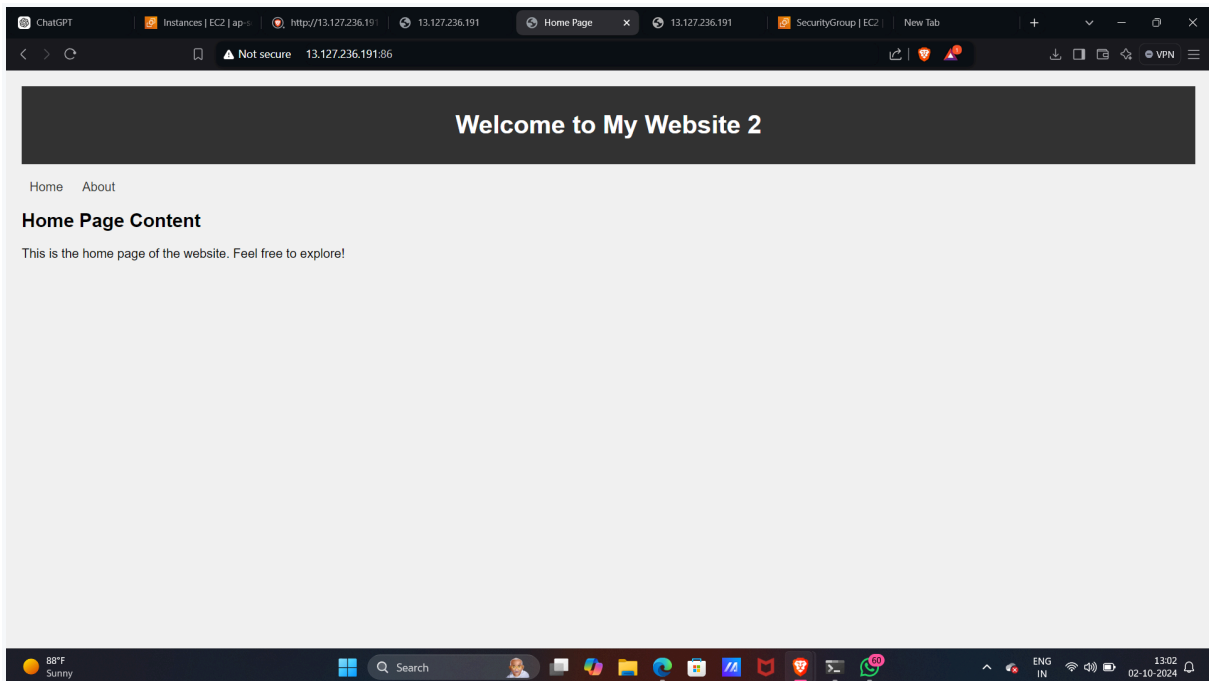
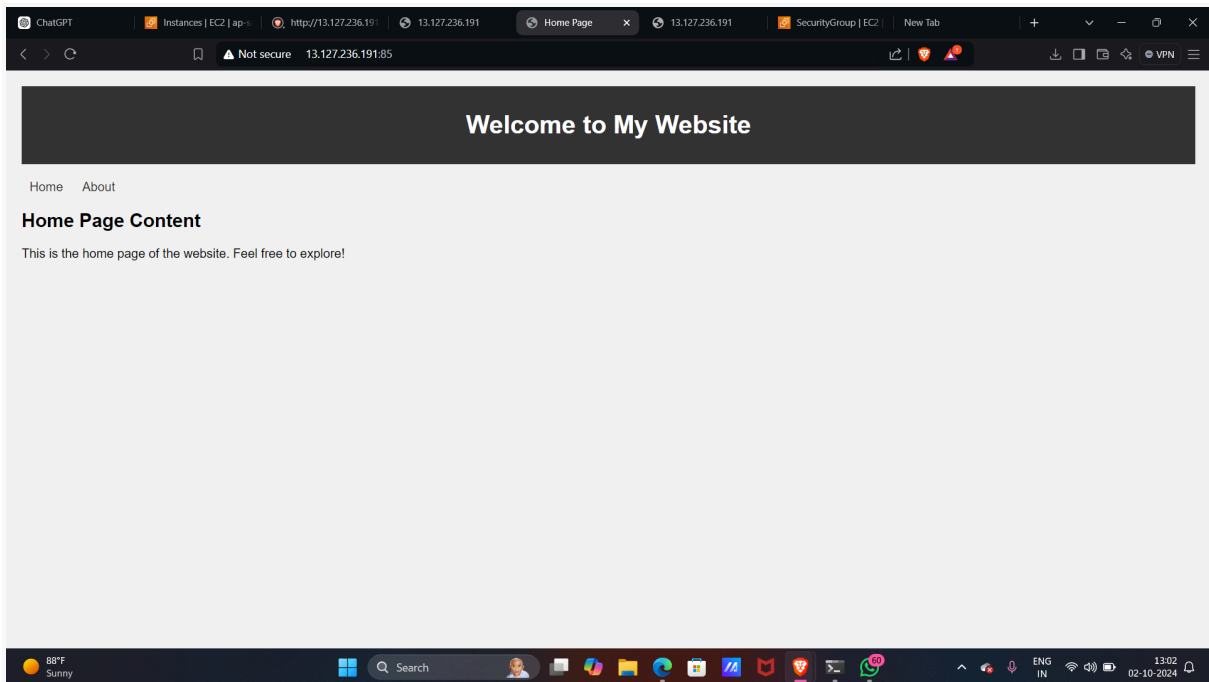


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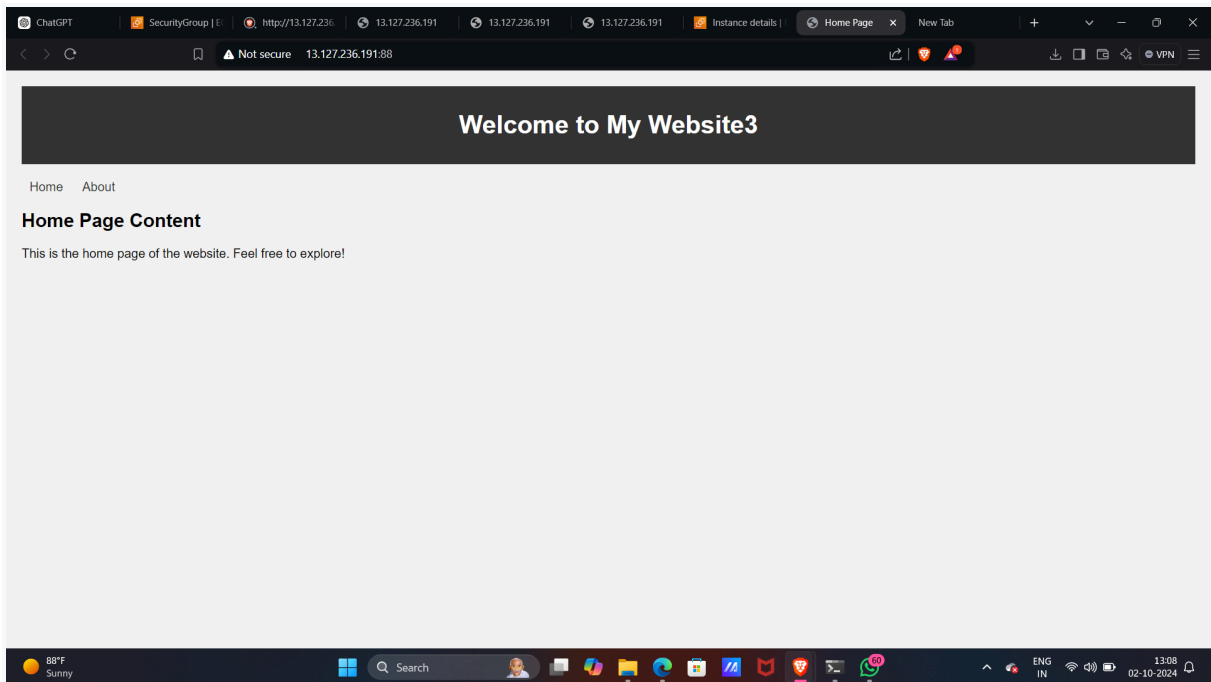


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