

Subject: Infrastructure Orchesteation (P)

Name of the Student: Shrushti Krishna Shrivastav PRN: 20220801024

Title of Practicle: HOSTING MULTIPLE WEBSITE ON SINGLE WEB SERVER

USING EC2 INSTANCE

Prerequisites:

1.Key Pair: When launching your instance, make sure to download your key-pair (.pem file), which you'll use to connect via SSH.

2. Security Group with HTTP Allowed: Make sure to set your security group to allow HTTP traffic (port 80), so people can access your websites.

Step 1: Launch your EC2 Instance

Log in and Navigate to the EC2 dashboard. Click on the "Launch Instance" button.

Now name your instance: webhosting-TY-1024



Select AMI: Ubuntu server 22.04





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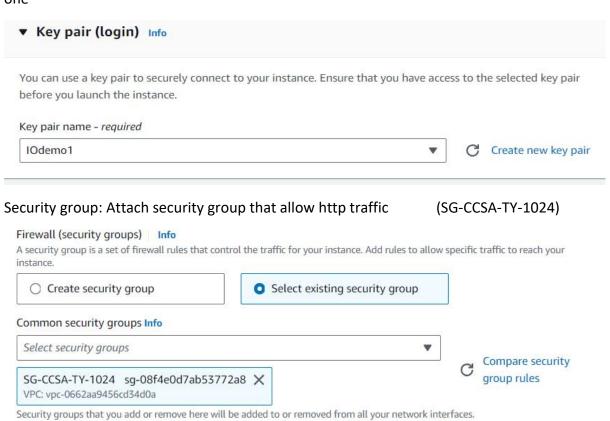
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Instance type: t2 micro



Key pair : attach your key-pair (must know location where it is downloaded) or create a new one





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Now 'LAUNCH' your Instance

Wait for your instance status to show as 'running' and '2/2 checks passed'.

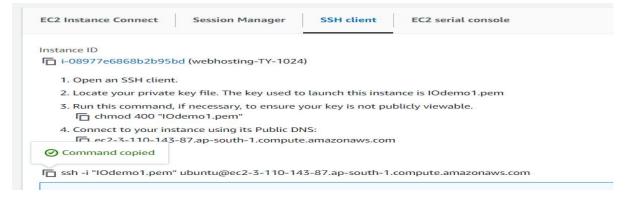


Step 2: Connect to Your EC2 Instance

Open Command Prompt and go to the directory where your key pair is saved.

C:\Users\shrushti\OneDrive\Desktop>

Once you're in the correct directory, copy and paste the SSH command provided to establish a connection to your EC2 instance.



Copy the above command



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C:\Users\shrushti\OneDrive\Desktop>ssh -i "IOdemo1.pem" ubuntu@ec2-3-110-143-87.ap-south-1.compute.amazonaws.com
The authenticity of host 'ec2-3-110-143-87.ap-south-1.compute.amazonaws.com (3.110.143.87)' can't be established.

ECDSA key fingerprint is SHA256:+ovOvi/p23t1vNlEkVG99ztVusdMSFDOmGJSoOWEUq4.

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

You are now connected to your EC2 instance via SSH.

Step 3: Install Apache Web Server and Configure It

Once connected to your EC2 instance, run the following commands to update and upgrade the system packages:

1. sudo apt update -y

```
ubuntu@ip-172-31-37-127:~$ sudo apt update -y
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu
```

2. sudo apt upgrade -y

```
ubuntu@ip-172-31-37-127:~$ sudo apt upgrade -y
Reading package lists... Done
```

3. install the Apache web server: sudo apt install apache2 -y

```
ubuntu@ip-172-31-37-127:~$
ubuntu@ip-172-31-37-127:~$ sudo apt install apache2 -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
    apache2-bin apache2-data apache2-utils bzip2 libapr1 libapru
```



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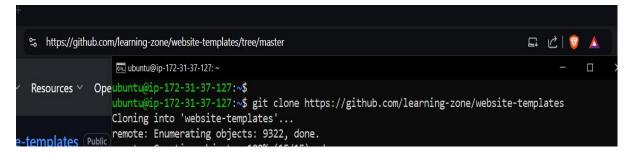
Step 4: Cloning a GitHub Repository for a Website Template

First, install Git on your system and configure it by running the following command: Sudo apt install git -y

```
ubuntu@ip-172-31-37-127:~$
ubuntu@ip-172-31-37-127:~$ sudo apt install git -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

clone the repository of your preferred website template.

Git clone https://github.com/learning-zone/website-templates



I've cloned the 'learning-zone/website-templates' repository to use the website templates from it.



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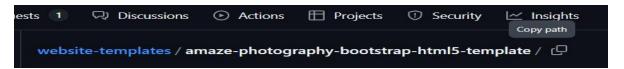
Step 5: Copying web template files to each website folder

Use the `mkdir` command to create a folder for each website inside the `/var/www/html` directory.

Sudo mkdir /var/www/html/'site name'

```
ubuntu@ip-172-31-37-127:~$
ubuntu@ip-172-31-37-127:~$ sudo mkdir /var/www/html/site1
ubuntu@ip-172-31-37-127:~$ sudo mkdir /var/www/html/site2
ubuntu@ip-172-31-37-127:~$ sudo mkdir /var/www/html/site3
ubuntu@ip-172-31-37-127:~$
```

Copy the website templates you need into these folders using the 'cp' command.



Sudo cp -r website-templates/'paste-the-copied-path-here-of -the-website'/* /var/www/html/'site name'

```
ubuntu@ip-172-31-37-127:~$
ubuntu@ip-172-31-37-127:~$ sudo cp -r website-templates/amaze-photography-bootstrap-html5-template/* /var/www/html/site1
ubuntu@ip-172-31-37-127:~$
```

Follow the same command to copy website template to folder

```
ubuntu@ip-172-31-37-127:~$
ubuntu@ip-172-31-37-127:~$
ubuntu@ip-172-31-37-127:~$
ubuntu@ip-172-31-37-127:~$
sudo cp -r website-templates/amaze-photography-bootstrap-html5-template/* /var/www/html/site1
ubuntu@ip-172-31-37-127:~$
sudo cp -r website-templates/aerosky-real-estate-html-responsive-website-template/* /var/www/html/site2
ubuntu@ip-172-31-37-127:~$
sudo cp -r website-templates/atlanta-free-business-bootstrap-template/* /var/www/html/site2
ubuntu@ip-172-31-37-127:~$
sudo cp -r website-templates/aerosky-real-estate-html-responsive-website-template/* /var/www/html/site3
ubuntu@ip-172-31-37-127:~$
```



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Step 6: Restart Apache to apply the changes.

Sudo systemctl restart apache2

```
ubuntu@ip-172-31-37-127:~$
ubuntu@ip-172-31-37-127:~$ sudo systemctl restart apache2
ubuntu@ip-172-31-37-127:~$
```

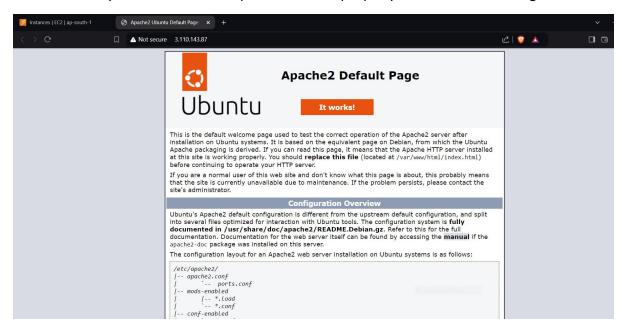
Step 7: Access the Apache server.

Make sure to use http:// (not https://) when accessing the Apache server.

First, copy the public IPv4 address of your EC2 instance.

Then, paste it into your browser's address bar (e.g., '(http://your-ec2-ip-add)')

This will allow you to check if the Apache server is properly installed and running.





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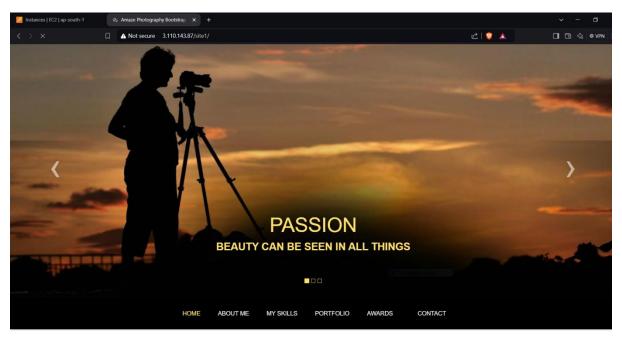
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Once you confirm that Apache is running, you can proceed to access your specific websites using:

(Replace "your-ec2-public-ip" with the public IPv4 address of your EC2 instance, then append the respective site names to view the content from each website template.)

http://your-ec2-public-ip/site1





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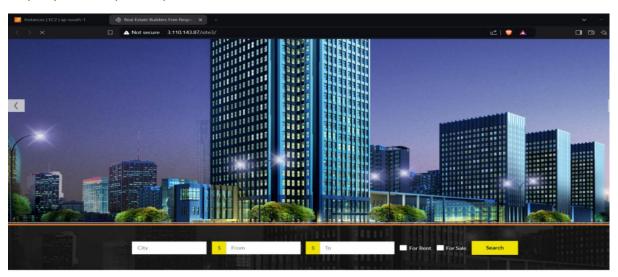
http://your-ec2-public-ip/site2



Atlanta is a modern and fully responsive Template by WebThemez.

Juliam ac rhoncus sapien, non gravida purus. Alinon elit imperdiet congue. Integer ultricies sed ligula eget tempus.

http://your-ec2-public-ip/site3



Done.