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School of Computer Science, Engineering and Applications(SCSEA)
B.C.A. TY (CCSA)
Subject : Infrastructure Orchestration (P)

Name of the Student: Prakhar Anil Sharma

PRN: 20220801121

Title of Practical : Cost-Effective Multi-Site Hosting: Managing Three Websites on a Single EC2 Instance.

Step-1]Go to Ec2 service dashboard

Step-2]Click on launch instance

Step-3]Name the server

Step-4]Select Ubuntu 24.04(Free tier eligible) as an AMI

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The screenshot shows the AWS Cloud9 interface for launching an EC2 instance. The left sidebar lists services like CloudWatch Metrics, Lambda, and CloudWatch Logs. The main area shows the 'Launch an instance' wizard. Step 1: Application and OS Images (Amazon Machine Image) shows a search bar and a grid of AMI icons for Amazon Linux, macOS, Ubuntu, Windows, Red Hat, and SUSE. Step 2: Summary shows the selection of 1 instance, the software image (Canonical, Ubuntu, 24.04, amd64), and the virtual server type (t2.micro). Step 3: Firewall (security group) shows the creation of a new security group. Step 4: Storage (volumes) shows the selection of 1 volume (8 GiB). Step 5: Free tier information is displayed, stating that the first year includes 750 hours of t2.micro usage. Step 6: Instance type shows the selection of t2.micro. Step 7: Launch instance button is highlighted in orange. The bottom of the screen shows standard AWS navigation links: CloudShell, Feedback, and a footer with copyright information.

Step-5] Create new Key Pair

Step-6] Name the key pair



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Step-7]Click on create key pair

A screenshot of the AWS Management Console showing the EC2 service. A modal window titled 'Create key pair' is open over the main instance creation form. In the 'Key pair name' field, 'WebHosting-1121' is typed. Under 'Key pair type', 'RSA' is selected. Under 'Private key file format', 'pem' is selected. A note at the bottom of the modal says: 'When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance.' A large orange 'Create key pair' button is at the bottom right of the modal.

Step-8]Select t2 micro in instance type



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Step-9]Select the created key pair

The screenshot shows the AWS Cloud9 interface for launching an EC2 instance. The 'Summary' section indicates 1 instance is being launched. The 'Software Image (AMI)' is set to Canonical, Ubuntu, 24.04, amd64. The 'Virtual server type (instance type)' is t2.micro. Under 'Network settings', the VPC and subnet are specified. A tooltip for the 'Free tier' is visible, stating: 'Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GiB of bandwidth to the internet.' At the bottom right, there is a large orange 'Launch instance' button.

Step-10]Duplicate the tab and go to Security Group

Step-11]Click on Create security group

Step-12]Name the security group

Step-13]In Inbound rule section Click on add rule

Step-14]Select SSH as type and Anywhere IPv4 as source

Step-15]Click on add rule and select HTTP as type and Anywhere IPv4 as source



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The screenshot shows the 'Create security group' page in the AWS EC2 console. In the 'Basic details' section, the security group name is 'MySG-WH-1121' and the description is 'Allow SSH access to developer'. The VPC is set to 'vpc-08ffe06795a9ec200'. Under 'Inbound rules', there are two rules: one for SSH (TCP port 22) and one for HTTP (TCP port 80). Both rules have 'Anywhere' as the source. The 'Description - optional' field is empty for both rules. At the bottom, there are buttons for 'CloudShell', 'Feedback', and links to '© 2024, Amazon Web Services, Inc. or its affiliates.', 'Privacy', 'Terms', and 'Cookie preferences'.

Step-16]Click on Create security group

The screenshot shows the 'Create security group' page with the configuration completed. The 'Inbound rules' section now includes a third rule for HTTPS (TCP port 443). The 'Outbound rules' section shows a rule for 'All traffic' with 'Custom' as the destination. The 'Tags - optional' section is empty. At the bottom, there are buttons for 'Cancel', 'Create security group', and links to '© 2024, Amazon Web Services, Inc. or its affiliates.', 'Privacy', 'Terms', and 'Cookie preferences'.

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The screenshot shows the AWS Management Console interface for the EC2 service. A modal window is open, confirming the creation of a new security group named 'MySG-WH-1121' with the ID 'sg-04e1b04208f66a409'. The main page displays the security group's details, including its name, ID, owner, and inbound rules. The inbound rules table lists two entries: one for SSH (TCP port 22) and one for HTTP (TCP port 80).

Step-17]Now in the network settings in instance select the created security group

Step-18]Click on Launch Instance

The screenshot shows the 'Launch instance' wizard, step 3: 'Configure instance details'. The 'Network settings' section is selected, showing the choice of an existing subnet ('vpc-05ffe06795a9ec200') and security group ('MySG-WH-1121'). The 'Configure storage' section shows a single volume of 8 GiB using the gp3 volume type. A summary box on the right provides details about the free tier, stating that in the first year, 750 hours of t2.micro usage are included in the free tier, along with other benefits like public IPv4 address usage and EBS storage.

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Step-19]Select the launched instance and click on connect

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with various EC2-related options like Dashboard, Global View, Events, Instances, Images, Elastic Block Store, Network & Security, and Load Balancing. The main area displays a table of instances. One instance is selected, labeled "i-0c4dbdeb0c0544ccb (Web Server-1121)". The instance details show it's a "t2.micro" type, running, and has a public IP of 3.110.122.7. The "Details" tab is active, showing more specific information such as VPC ID (vpc-08ffe06795a9ec200), Subnet ID (subnet-0ef756fee7b640093), and Instance ARN (arn:aws:ec2:ap-south-1:89157727358:instance/i-0c4dbdeb0c0544ccb).



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Step-20] Go to SSH Client and copy the Example

Step-21] Go to EC2 instance Connect and click on connect

A screenshot of a web browser window showing the AWS EC2 Connect to instance interface. The URL is ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ConnectToInstance:instanceId=i-0c4dbdeb0c0544cbb. The page title is "Connect to instance". It shows a list of options: EC2 Instance Connect (selected), Session Manager, and SSH client. Below this, it displays the Instance ID: i-0c4dbdeb0c0544cbb (Web Server-1121). It provides instructions for connecting via SSH: 1. Open an SSH client, 2. Locate your private key file, 3. Run the command chmod 400 "WebHosting-1121.pem", 4. Connect to your instance using its Public DNS: ec2-3-110-122-7.ap-south-1.compute.amazonaws.com. There is also an "Example:" section with the command ssh -i "WebHosting-1121.pem" ubuntu@ec2-3-110-122-7.ap-south-1.compute.amazonaws.com. A note at the bottom says: "Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username." At the bottom right are links for CloudShell, Feedback, Privacy, Terms, and Cookie preferences.

Step-22] Run these commands one by one in the Ec2 terminal

- sudo apt update
- sudo apt upgrade -y
- sudo apt install apache2
- sudo apt install wget unzip -y



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```
Instances | EC2 | ap-south-1 EC2 Instance Connect + ap-south-1.console.aws.amazon.com/ec2-instance-connect/sh?addressFamily=ipv4&connType=standard&instanceId=i-0c4dbdeb0c0544cbb&ostUser=ubuntu&region=ap-south-1&sshPort=22# AWS Services Q Search [Alt+S] Mumbai Prakhar Sharma Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1016-aws x86_64) * Documentation: https://help.ubuntu.com * Management: https://landscape.canonical.com * Support: https://ubuntu.com/pro System information as of Wed Oct 2 08:02:05 UTC 2024 System load: 0.08 Processes: 103 Usage of /: 22.8% of 6.71GB Users logged in: 0 Memory usage: 10% IPv4 address for enx0: 172.31.9.78 Swap usage: 0% Expanded Security Maintenance for Applications is not enabled. 0 updates can be applied immediately. Enable ESM Apps to receive additional future security updates. See https://ubuntu.com/esm or run: sudo pro status The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*copyright*. Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law. To run a command as administrator (user "root"), use "sudo <command>". See "man sudo_root" for details. ubuntu@ip-172-31-9-78:~$ sudo apt update i-0c4dbdeb0c0544cbb (Web Server-1121) PublicIPs: 3.110.122.7 PrivateIPs: 172.31.9.78 CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences
```

```
Instances | EC2 | ap-south-1 EC2 Instance Connect + ap-south-1.console.aws.amazon.com/ec2-instance-connect/sh?addressFamily=ipv4&connType=standard&instanceId=i-0c4dbdeb0c0544cbb&ostUser=ubuntu&region=ap-south-1&sshPort=22# AWS Services Q Search [Alt+S] Mumbai Prakhar Sharma Get:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB] Get:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [110 kB] Get:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB] Get:12 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328 B] Get:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [535 kB] Get:14 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [103 kB] Get:15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [8676 B] Get:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [380 kB] Get:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [157 kB] Get:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [14.9 kB] Get:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [14.9 kB] Get:20 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [14.4 kB] Get:21 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [3609 kB] Get:22 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [212 kB] Get:23 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Metadata [532 B] Get:24 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [208 B] Get:25 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [112 B] Get:26 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [10.6 kB] Get:27 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [10.6 kB] Get:28 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [17.6 kB] Get:29 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1104 B] Get:30 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [1104 B] Get:31 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [116 B] Get:32 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B] Get:33 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 B] Get:34 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [380 kB] Get:35 http://security.ubuntu.com/ubuntu noble-security/main amd64 Translation-en [157 kB] Get:36 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [4576 B] Get:37 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [275 kB] Get:38 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [116 kB] Get:39 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [116 B] Get:40 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [10.4 kB] Get:41 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [10.9 kB] Get:42 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [2008 B] Get:43 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B] Get:44 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [344 B] Fetches: 28.2 MB in 7s (4059 kB/s) Reading package lists... Done Building dependency tree... Done Reading status information... Done 6 packages can be upgraded. Run 'apt list --upgradable' to see them. ubuntu@ip-172-31-9-78:~$ sudo apt upgrade i-0c4dbdeb0c0544cbb (Web Server-1121) PublicIPs: 3.110.122.7 PrivateIPs: 172.31.9.78 CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences
```



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```
Instances | EC2 | ap-south-1 EC2 Instance Connect + ap-south-1.console.aws.amazon.com/ec2-instance-connect/sh?addressFamily=ipv4&connType=standard&instanceId=i-0c4dbdeb0c0544ccb8&ostUser=ubuntu&region=ap-south-1&sshPort=22# AWS Services Search [Alt+S] Mumbai Prakhar Sharma

The following packages will be upgraded:
  Vim: 2:9.1.0016-lubuntu7.3 -> 2:9.1.0016-lubuntu7.3 [1880 kB]
  Vim-tiny: 2:9.1.0016-lubuntu7.3 -> 2:9.1.0016-lubuntu7.3 [305 kB]
  standard LFS security updates
  0 upgraded, 0 newly installed, 0 to remove and 1 not upgraded.
Need to get 10.4 kB of archives.
After this operation, 0 B of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 vim amd64 2:9.1.0016-lubuntu7.3 [1880 kB]
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 vim-common all 2:9.1.0016-lubuntu7.3 [305 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 vim-tiny amd64 2:9.1.0016-lubuntu7.3 [803 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 vim-runtime all 2:9.1.0016-lubuntu7.3 [7281 kB]
Get:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 xxd amd64 2:9.1.0016-lubuntu7.3 [63.1 kB]
Fetched 10.4 MB in 0s (55.1 MB/s)
(Reading database ... 67836 files and directories currently installed.)
Preparing to unpack .../vim_2:9.1.0016-lubuntu7.3_amd64.deb ...
Unpacking vim: 2:9.1.0016-lubuntu7.3 over (2:9.1.0016-lubuntu7.2) ...
Preparing to unpack .../vim-common_2:9.1.0016-lubuntu7.3_all.deb ...
Unpacking vim-common (2:9.1.0016-lubuntu7.3) over (2:9.1.0016-lubuntu7.2) ...
Preparing to unpack .../vim-tiny_2:9.1.0016-lubuntu7.3_amd64.deb ...
Unpacking vim-tiny: 2:9.1.0016-lubuntu7.3 over (2:9.1.0016-lubuntu7.2) ...
Preparing to unpack .../vim-runtime_2:9.1.0016-lubuntu7.3_all.deb ...
Unpacking vim-runtime (2:9.1.0016-lubuntu7.3) over (2:9.1.0016-lubuntu7.2) ...
Preparing to unpack .../xxd_2:9.1.0016-lubuntu7.3_amd64.deb ...
Unpacking xxd: 2:9.1.0016-lubuntu7.3 over (2:9.1.0016-lubuntu7.2) ...
Setting up vim: 2:9.1.0016-lubuntu7.3 ...
Setting up vim-common (2:9.1.0016-lubuntu7.3) ...
Setting up vim-runtime (2:9.1.0016-lubuntu7.3) ...
Setting up xxd (2:9.1.0016-lubuntu7.3) ...
Processing triggers for man-db (2.12.0-4ubuntu2) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.

ubuntu@ip-172-31-9-78:~$ sudo apt install apache2

i-0c4dbdeb0c0544ccb (Web Server-1121)
PrivateIPs: 5.110.122.7 PrivateIPs: 172.31.9.78

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```

```
Instances | EC2 | ap-south-1 EC2 Instance Connect + ap-south-1.console.aws.amazon.com/ec2-instance-connect/sh?addressFamily=ipv4&connType=standard&instanceId=i-0c4dbdeb0c0544ccb8&ostUser=ubuntu&region=ap-south-1&sshPort=22# AWS Services Search [Alt+S] Mumbai Prakhar Sharma

Enabling module authn_core.
Enabling module authn_host.
Enabling module authz_core.
Enabling module authz_user.
Enabling module auth_basic.
Enabling module access_compat.
Enabling module alias.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling module expires.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf env.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /usr/lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /usr/lib/systemd/system/apache-htcacheclean.service.
Processing triggers for systemd (2.49.5-1ubuntu0.2) ...
Processing triggers for man-db (2.12.0-4ubuntu2) ...
Processing triggers for libc-bin (2.39-0ubuntu0.3) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.

ubuntu@ip-172-31-9-78:~$ sudo apt install wget unzip -y

i-0c4dbdeb0c0544ccb (Web Server-1121)
PrivateIPs: 5.110.122.7 PrivateIPs: 172.31.9.78

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```

Step-23] Then Type To Become a Root User



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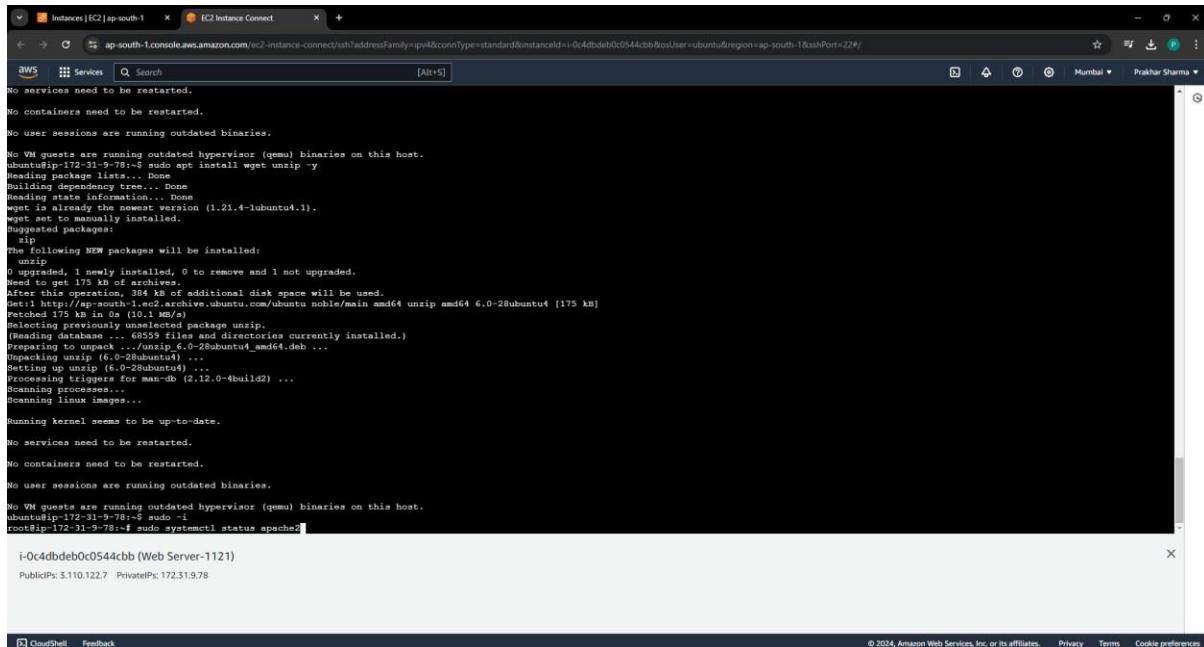
Name of the Student: Prakhar Anil Sharma **PRN:** 20220801121

Title of Practical : Cost-Effective Multi-Site Hosting: Managing Three Websites on a Single EC2 Instance.

- sudo -i

Step-24]After running the above command , Check the status of APACHE Server by running this command

- sudo systemctl status apache2



```
Instances | EC2 | ap-south-1 | EC2 Instance Connect | +  
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?addressFamily=ipv4&connType=standard&instanceId=i-0c4dbdeb0c0544ccb&osUser=ubuntu&region=ap-south-1&sshPort=22#/  
aws Services Q Search [Alt+S]  
No services need to be restarted.  
No containers need to be restarted.  
No user sessions are running outdated binaries.  
No VM guests are running outdated hypervisor (qemu) binaries on this host.  
ubuntu@ip-172-31-9-78:~$ sudo apt install wget unzip -y  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
wget is already the newest version (1.21.4-lubuntu4.1).  
wget is set to manually installed.  
Suggested packages:  
  zip  
The following NEW packages will be installed:  
  unzip  
0 upgraded, 1 newly installed, 0 to remove and 1 not upgraded.  
Need to get 175 kB of archives.  
After this operation, 384 kB of additional disk space will be used.  
Get:1 http://archive.ubuntu.com/ubuntu main amd64 unzip amd64 6.0-28ubuntu4 [175 kB]  
Patched 175 kB in 0s (10.1 kB/s)  
Selecting previously unselected package unzip.  
(Reading database ... 68559 files and directories currently installed.)  
Preparing to unpack .../unzip_6.0-28ubuntu4_amd64.deb ...  
Unpacking unzip (6.0-28ubuntu4) ...  
Setting up unzip (6.0-28ubuntu4) ...  
Processing triggers for man-db (2.12.0-4build2) ...  
Scanning processes...  
Scanning linux images...  
Running kernel seems to be up-to-date.  
No services need to be restarted.  
No containers need to be restarted.  
No user sessions are running outdated binaries.  
No VM guests are running outdated hypervisor (qemu) binaries on this host.  
ubuntu@ip-172-31-9-78:~$ sudo systemctl status apache2  
root@ip-172-31-9-78:~$ sudo systemctl status apache2  
i-0c4dbdeb0c0544ccb (Web Server-1121)  
PublicIPs: 3.110.122.7 PrivateIP: 172.31.9.78  
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```

Step-25]Then Type the following Commands

- cd /var/www/html/

- ls

- mkdir web1 web2 web3(we are making 3 directories ... to store our 3 websites in these 3 directories)

- ls

- rm index.html(we are removing the default index.html file as we don't need it)

- ls



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```
Instances | EC2 | ap-south-1 | EC2 Instance Connect | + ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?addressFamily=ipv4&connType=standard&instanceId=i-0c4dbdeb0c0544ccb8&osUser=ubuntu&region=ap-south-1&sshPort=22# [Alt+S] Services Search Mumbai Prakhar Sharma AWS Upgrading... Unpacking unix (6.0-0~ubuntuf4) ... Getting up to date (16.0-2~ubuntuf4) ... Pre-removal triggers for man-db (2.1.2.0-4build2) ... Scanning processes... Scanning linux images... Running kernel seems to be up-to-date. No services need to be restarted. No containers need to be restarted. No user sessions are running outdated binaries. No VM guests are running outdated hypervisor (qemu) binaries on this host. ubuntu@ip-172-31-9-78:~$ sudo -i root@ip-172-31-9-78:~$ sudo systemctl status apache2 * apache2.service - The Apache HTTP Server Main PID: 2591 (apache2) Tasks: 1 (limit: 1193) Memory: 5.4M (peak: 5.7M) CPU: 3ms CGroup: /system.slice/apache2.service └─2591 /usr/sbin/apache2 -k start root@ip-172-31-9-78:~$ systemctl enable apache2.service; enabled; preset: enabled Active: active (running) since Wed 2024-10-02 08:04:13 UTC; 2min 9s ago Docs: https://httpd.apache.org/docs/2.4/ Main PID: 2591 (apache2) Tasks: 1 (limit: 1193) Memory: 5.4M (peak: 5.7M) CPU: 3ms CGroup: /system.slice/apache2.service └─2591 /usr/sbin/apache2 -k start root@ip-172-31-9-78:~$ cd /var/www/html/ root@ip-172-31-9-78:~/var/www/html$ ls index.html root@ip-172-31-9-78:~/var/www/html$ a2diss web1 web2 web3 root@ip-172-31-9-78:~/var/www/html$ ls index.html root@ip-172-31-9-78:~/var/www/html$ rm index.html root@ip-172-31-9-78:~/var/www/html$ ls web1 web2 web3 root@ip-172-31-9-78:~/var/www/html$ ls index.html root@ip-172-31-9-78:~/var/www/html$ a2enb web1 web2 web3 root@ip-172-31-9-78:~/var/www/html$ ls index.html root@ip-172-31-9-78:~/var/www/html$ i-0c4dbdeb0c0544ccb (Web Server-1121) PublicIPs: 3.110.122.7 PrivateIPs: 172.31.9.78
```

Step-26] Now get any 3 websites templates from any opensource websites

Step-27] Pick any 3 websites you want

Step-28] Copy website link address and paste it in notepad

Step-29] For example

Your link look like this

https://www.tooplate.com/download/2110_character

Do the following changes to the link and it should look like this

`wget https://www.tooplate.com/zip-templates/2110_character.zip`

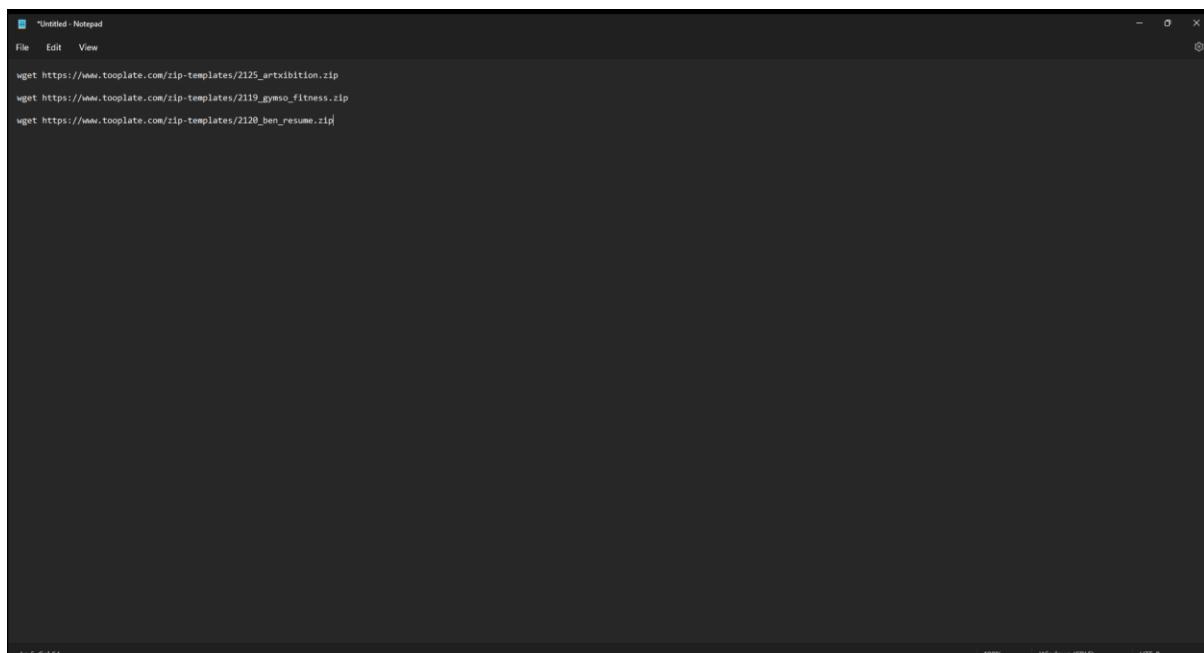
copy this text and then paste using mouse not with shortcut keys in the terminal



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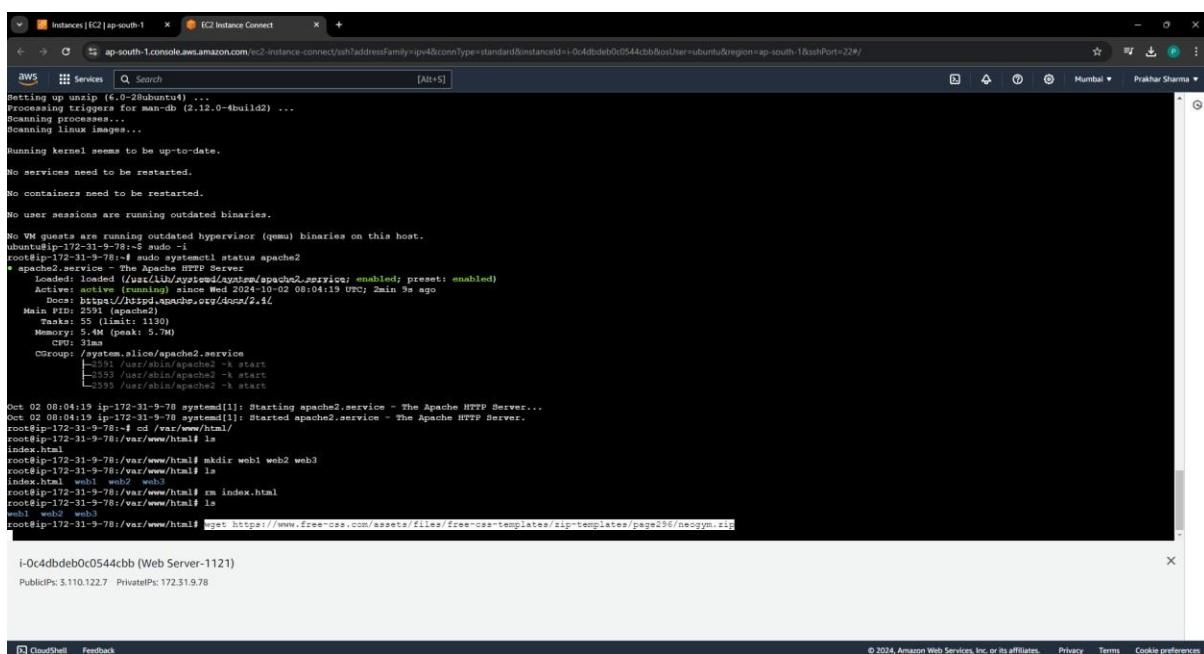
Name of the Student: Prakhar Anil Sharma **PRN:** 20220801121

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```
*Untitled - Notepad
File Edit View

wget https://www.tooplate.com/zip-templates/2125_artxhibition.zip
wget https://www.tooplate.com/zip-templates/2119_gymso_fitness.zip
wget https://www.tooplate.com/zip-templates/2120_ben_resume.zip
```



```
Instances | EC2 | ap-south-1 EC2 Instance Connect + ap-south-1.consoleaws.amazon.com/ec2-instance-connect/ssh?addressFamily=ipv4&connType=standard&instanceId=i-0c4dbdeb0c0544cbb&hostUser=ubuntu&region=ap-south-1&sshPort=22&]

AWS Services Q Search [Alt+S]
AWS Services Q Search [Alt+S]

Priming: unipc (6.0-2~ubuuntu4) ...
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.

ubuntu@ip-172-31-9-78:~$ sudo -i
root@ip-172-31-9-78:~# sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
   Active: active (running) since Sun 2024-10-02 08:04:15 UTC; 2min 5s ago
     Docs: https://httpd.apache.org/docs/2.4/
Main PID: 2591 (apache2)
Tasks: 1 (limit: 1130)
Memory: 5.4MiB (peak: 5.7MiB)
CPU: 3ms
CGroup: /system.slice/apache2.service
        └─2591 /usr/sbin/apache2 -k start
           ├─2595 /usr/sbin/apache2 -k start
           ├─2596 /usr/sbin/apache2 -k start
           └─2597 /usr/sbin/apache2 -k start

Oct 02 08:04:19 ip-172-31-9-78 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Oct 02 08:04:19 ip-172-31-9-78 systemd[1]: Started apache2.service - The Apache HTTP Server.
root@ip-172-31-9-78:~# cd /var/www/html/
root@ip-172-31-9-78:/var/www/html# ls
index.html
root@ip-172-31-9-78:/var/www/html# mkdir web1 web2 web3
root@ip-172-31-9-78:/var/www/html# ls
index.html web1 web2 web3
root@ip-172-31-9-78:/var/www/html# rm index.html
root@ip-172-31-9-78:/var/www/html# ls
web1 web2 web3
root@ip-172-31-9-78:/var/www/html# wget https://www.free-css.com/assets/files/free-css-templates/zip-templates/page36/neogym.zip
i-0c4dbdeb0c0544cbb (Web Server-1121)
PublicIPs: 3.110.122.7 PrivateIPs: 172.31.9.78

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```

Step-30] Then type the following commands



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- unzip 2110_character.zip (IN YOUR CASE TYPE YOUR WEBSITE NAME)

- sudo cp -r 2110_character/* /var/www/html/web1 (THIS WILL SAVE YOUR WEBSITE IN WEB1 DIR)

A screenshot of an AWS CloudShell terminal window titled "Instances | EC2 | ap-south-1". The terminal shows a command-line session where a ZIP file is being downloaded from a website and then extracted into the "/var/www/html/web1" directory. The session starts with "wget https://www.tooplate.com/zip-templates/2125_artxhibition.zip", followed by "unzip 2125_artxhibition.zip". The terminal then lists numerous files being inflated and created, including CSS, JS, and font files for a website template. The session ends with "i-0c4dbdeb0c0544ccb (Web Server-1121)" and "PublicIPs: 3.110.122.7 PrivateIPs: 172.31.9.78".

```
root@ip-172-31-9-78:/var/www/html# wget https://www.tooplate.com/zip-templates/2125_artxhibition.zip
--2024-10-02 08:38:29-- https://www.tooplate.com/zip-templates/2125_artxhibition.zip
Resolving www.tooplate.com (www.tooplate.com)... 72.52.176.250
Connecting to www.tooplate.com (www.tooplate.com)|72.52.176.250|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 5180605 (4.9M) [application/xzip]
Saving to: '2125_artxhibition.zip'

2125_artxhibition.zip          100%[=====]  4.94M   777KB/s    in 26s

2024-10-02 08:38:29 (197 KB/s) - '2125_artxhibition.zip' saved [5180605/5180605]
root@ip-172-31-9-78:/var/www/html# unzip 2125_artxhibition.zip
Archive: 2125_artxhibition.zip
Archive: 2125_artxhibition/
  inflating: 2125_artxhibition/about.html
  creating: 2125_artxhibition/assets/
  creating: 2125_artxhibition/assets/css/
  inflating: 2125_artxhibition/assets/css/bootstrap.min.css
  inflating: 2125_artxhibition/assets/css/font-awesome.css
  inflating: 2125_artxhibition/assets/css/owl-carousel.css
  inflating: 2125_artxhibition/assets/css/tooplate-artxhibition.css
  creating: 2125_artxhibition/assets/fonts/
  inflating: 2125_artxhibition/assets/fonts/flaticon.woff
  inflating: 2125_artxhibition/assets/fonts/flexslider-icon.woff
  inflating: 2125_artxhibition/assets/fonts/flexslider-icon.svg
  inflating: 2125_artxhibition/assets/fonts/flexslider-icon.ttf
  inflating: 2125_artxhibition/assets/fonts/flaticon.woff
  inflating: 2125_artxhibition/assets/fonts/fontawesome-webfont.eot
  inflating: 2125_artxhibition/assets/fonts/fontawesome-webfont.svg
  inflating: 2125_artxhibition/assets/fonts/fontawesome-webfont.ttf
  inflating: 2125_artxhibition/assets/fonts/fontawesome-webfont.woff
  inflating: 2125_artxhibition/assets/fonts/fontawesome-webfont.woff2
  inflating: 2125_artxhibition/assets/fonts/FontAwesome.otf
  inflating: 2125_artxhibition/assets/fonts/slick.woff
  inflating: 2125_artxhibition/assets/fonts/slick.svg
  inflating: 2125_artxhibition/assets/fonts/slick.ttf
  inflating: 2125_artxhibition/assets/fonts/slick.woff
  creating: 2125_artxhibition/assets/images/
  inflating: 2125_artxhibition/assets/images/about-image.jpg
  inflating: 2125_artxhibition/assets/images/about-map-image.jpg
  inflating: 2125_artxhibition/assets/images/about_bg.jpg

i-0c4dbdeb0c0544ccb (Web Server-1121)
PublicIPs: 3.110.122.7 PrivateIPs: 172.31.9.78
```

Step-31] Do these Above 3 Steps for remaining of sites(KEEP IN MIND TO:- CHANGE LINK FORMAT, CHANGE SITE NAME, CHANGE WEB DIRECTORY[WEB2][WEB3])



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```
Instances | EC2 | ap-south-1 EC2 Instance Connect +  
ap-south-1.console.aws.amazon.com/ec2-instance-connect/sh/  
addressFamily=ipv4&connType=standard&instanceId=i-0c4dbdeb0c544ccb8&osUser=ubuntu&region=ap-south-1&sshPort=22#  
AWS Services Search [Alt+S]  
root@ip-172-31-9-78:/var/www/html# sudo cp -r 2125_artxhibition/* /var/www/html/web1  
root@ip-172-31-9-78:/var/www/html# wget https://www.tooplate.com/zip-templates/2119_gymso_fitness.zip  
--2024-10-02 08:41:52 (98.9 KB/s) - '2119_gymso_fitness.zip' saved [1440478/1440478]  
Resolving www.tooplate.com (www.tooplate.com)|72.52.176.250:  
Connecting to www.tooplate.com (www.tooplate.com)|72.52.176.250|:443... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 1440478 (1.4M) [application/zip]  
Saving to: '2119_gymso_fitness.zip'  
  
2119_gymso_fitness.zip 100%[=====] 1.37M 104kB/s in 14s  
2024-10-02 08:41:52 (98.9 KB/s) - '2119_gymso_fitness.zip' saved [1440478/1440478]  
root@ip-172-31-9-78:/var/www/html#  
  
i-0c4dbdeb0c544ccb (Web Server-1121)  
PublicIPs: 3.110.122.7 PrivateIPs: 172.31.9.78  
  
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```

```
Instances | EC2 | ap-south-1 EC2 Instance Connect +  
ap-south-1.console.aws.amazon.com/ec2-instance-connect/sh/  
addressFamily=ipv4&connType=standard&instanceId=i-0c4dbdeb0c544ccb8&osUser=ubuntu&region=ap-south-1&sshPort=22#  
AWS Services Search [Alt+S]  
root@ip-172-31-9-78:/var/www/html# unzip 2119_gymso_fitness.zip  
Archive: 2119_gymso_fitness.zip  
  creating: 2119_gymso_fitness/  
  creating: 2119_gymso_fitness/css/  
  inflating: 2119_gymso_fitness/css/aos.css  
  inflating: 2119_gymso_fitness/css/bootstrap.min.css  
  inflating: 2119_gymso_fitness/css/fontawesome.min.css  
  inflating: 2119_gymso_fitness/css/tooplate-gymso-style.css  
  creating: 2119_gymso_fitness/fonts/  
  inflating: 2119_gymso_fitness/fonts/fontawesome-woff.eot  
  inflating: 2119_gymso_fitness/fonts/fontawesome-woff.svg  
  inflating: 2119_gymso_fitness/fonts/fontawesome-woff.ttf  
  inflating: 2119_gymso_fitness/fonts/fontawesome-woff.woff  
  inflating: 2119_gymso_fitness/fonts/fontawesome-woff2.eot  
  inflating: 2119_gymso_fitness/fonts/fontawesome-woff2.svg  
  inflating: 2119_gymso_fitness/fonts/fontawesome-woff2.ttf  
  inflating: 2119_gymso_fitness/fonts/Plain-Light.woff  
  inflating: 2119_gymso_fitness/fonts/Plain-Light.woff2  
  inflating: 2119_gymso_fitness/fonts/Plain-Regular.woff  
  inflating: 2119_gymso_fitness/fonts/Plain-Regular.woff2  
  creating: 2119_gymso_fitness/images/  
  creating: 2119_gymso_fitness/images/class/  
  inflating: 2119_gymso_fitness/images/class/cardio-class.jpg  
  inflating: 2119_gymso_fitness/images/class/crossfit-class.jpg  
  inflating: 2119_gymso_fitness/images/class/yoga-class.jpg  
  inflating: 2119_gymso_fitness/images/hero-bg.jpg  
  creating: 2119_gymso_fitness/images/team/  
  inflating: 2119_gymso_fitness/images/team/teen-image-teen-image.jpg  
  inflating: 2119_gymso_fitness/images/team/teen-image01.jpg  
  inflating: 2119_gymso_fitness/index.html  
  creating: 2119_gymso_fitness/js/  
  inflating: 2119_gymso_fitness/js/bootstrap.js  
  inflating: 2119_gymso_fitness/js/bootstrapstrap.min.js  
  inflating: 2119_gymso_fitness/js/custom.js  
  inflating: 2119_gymso_fitness/js/jquery.slim.js  
  inflating: 2119_gymso_fitness/js/popper.slim.js  
  inflating: 2119_gymso_fitness/js/ABOUT THIS TEMPLATE.txt  
root@ip-172-31-9-78:/var/www/html# sudo cp -r 2119_gymso_fitness/* /var/www/html/web2  
root@ip-172-31-9-78:/var/www/html#  
  
i-0c4dbdeb0c544ccb (Web Server-1121)  
PublicIPs: 3.110.122.7 PrivateIPs: 172.31.9.78  
  
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```



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```
Instances | EC2 | ap-south-1 EC2 Instance Connect + ap-south-1.console.aws.amazon.com/ec2-instance-connect/sh?addressFamily=ipv4&connType=standard&instanceId=i-0c4dbdeb0c0544ccb8ccUser=ubuntu&region=ap-south-1&sshPort=22# AWS Services Search [Alt+S] infating: 2119_gymao_fitness/s/assets/bootstrap.min.js infating: 2119_gymao_fitness/s/assets/bootstrap.min.css infating: 2119_gymao_fitness/s/assets/jquery.min.js infating: 2119_gymao_fitness/s/smoothscroll.js infating: 2119_gymao_fitness/ABOUT THIS TEMPLATE.txt root@ip-172-31-9-78:/var/www/html# sudo cp -r 2119_gymao_fitness/* /var/www/html/web3 root@ip-172-31-9-78:/var/www/html# curl https://www.tooplate.com/zip-templates/2120_ben_resume.zip -O 2024-10-02 08:43:57-- https://www.tooplate.com/zip-templates/2120_ben_resume.zip Resolving www.tooplate.com (www.tooplate.com)... 72.52.176.250... connected. HTTP request sent, awaiting response... 200 OK Length: 1843803 (1.8M) [application/zip] Saving to: '2120_ben_resume.zip' Having to: '2120_ben_resume.zip' 2120_ben_resume.zip 100%[=====] 1.76M 86.1KB/s in 21s 2024-10-02 08:44:15 (86.1 KB/s) - '2120_ben_resume.zip' saved [1843803/1843803] root@ip-172-31-9-78:/var/www/html# unzip 2120_ben_resume.zip Archive: 2120_ben_resume.zip creating: 2120_ben_resume/ creating: 2120_ben_resume/css/infating: 2120_ben_resume/css/all.min.css infating: 2120_ben_resume/css/bootstrap.min.css infating: 2120_ben_resume/css/owl.carousel.min.css infating: 2120_ben_resume/css/owl.theme.default.min.css infating: 2120_ben_resume/css/tooplate-ben-resume-style.css creating: 2120_ben_resume/images/ infating: 2120_ben_resume/images/ben.jpg creating: 2120_ben_resume/images/testimonials/ infating: 2120_ben_resume/images/testimonials/testimonial-image01.jpg infating: 2120_ben_resume/images/testimonials/testimonial-image02.jpg infating: 2120_ben_resume/images/testimonials/testimonial-image03.jpg infating: 2120_ben_resume/images/testimonials/testimonial-image04.jpg infating: 2120_ben_resume/images/true-agency.jpg infating: 2120_ben_resume/images/tooplate.html creating: 2120_ben_resume/ja/ infating: 2120_ben_resume/ja/bootstrap.min.js infating: 2120_ben_resume/ja/custom.js infating: 2120_ben_resume/ja/owl.carousel.min.js infating: 2120_ben_resume/ja/smoothscroll.js infating: 2120_ben_resume/ja/smoothscroll.js i-0c4dbdeb0c0544ccb (Web Server-1121) PublicIPs: 3.110.122.7 PrivateIPs: 172.31.9.78
```

```
Instances | EC2 | ap-south-1 EC2 Instance Connect + ap-south-1.console.aws.amazon.com/ec2-instance-connect/sh?addressFamily=ipv4&connType=standard&instanceId=i-0c4dbdeb0c0544ccb8ccUser=ubuntu&region=ap-south-1&sshPort=22# AWS Services Search [Alt+S] infating: 2120_ben_resume/css/owl.theme.default.min.css infating: 2120_ben_resume/css/tooplate-ben-resume-style.css creating: 2120_ben_resume/images/ infating: 2120_ben_resume/images/ben.jpg creating: 2120_ben_resume/images/testimonials/ infating: 2120_ben_resume/images/testimonials/testimonial-image01.jpg infating: 2120_ben_resume/images/testimonials/testimonial-image02.jpg infating: 2120_ben_resume/images/testimonials/testimonial-image03.jpg infating: 2120_ben_resume/images/testimonials/testimonial-image04.jpg infating: 2120_ben_resume/images/true-agency.jpg infating: 2120_ben_resume/images/tooplate.html creating: 2120_ben_resume/ja/ infating: 2120_ben_resume/ja/bootstrap.min.js infating: 2120_ben_resume/ja/custom.js infating: 2120_ben_resume/ja/owl.carousel.min.js infating: 2120_ben_resume/ja/smoothscroll.js infating: 2120_ben_resume/localfonts/infating: 2120_ben_resume/localfonts/Plain-Bold.woff infating: 2120_ben_resume/localfonts/Plain-Bold.woff2 infating: 2120_ben_resume/localfonts/Plain-Light.woff infating: 2120_ben_resume/localfonts/Plain-Light.woff2 infating: 2120_ben_resume/localfonts/Plain-Regular.woff infating: 2120_ben_resume/localfonts/Plain-Regular.woff2 creating: 2120_ben_resume/webfonts/ infating: 2120_ben_resume/webfonts/fa-brands-400.eot infating: 2120_ben_resume/webfonts/fa-brands-400.svg infating: 2120_ben_resume/webfonts/fa-brands-400.ttf infating: 2120_ben_resume/webfonts/fa-brands-400.woff infating: 2120_ben_resume/webfonts/fa-brands-400.woff2 infating: 2120_ben_resume/webfonts/fa-regular-400.svg infating: 2120_ben_resume/webfonts/fa-regular-400.ttf infating: 2120_ben_resume/webfonts/fa-regular-400.woff infating: 2120_ben_resume/webfonts/fa-regular-400.woff2 infating: 2120_ben_resume/webfonts/fa-solid-900.eot infating: 2120_ben_resume/webfonts/fa-solid-900.ttf infating: 2120_ben_resume/webfonts/fa-solid-900.woff infating: 2120_ben_resume/webfonts/fa-solid-900.woff2 i-0c4dbdeb0c0544ccb (Web Server-1121) PublicIPs: 3.110.122.7 PrivateIPs: 172.31.9.78
```

Step-32] Then After Doing the steps

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--> Go to your instance

-->Copy Ipv4 public address and paste in a new tab

-->ex:- your address looks like this

-->0.0.0.0.0.0.0.0

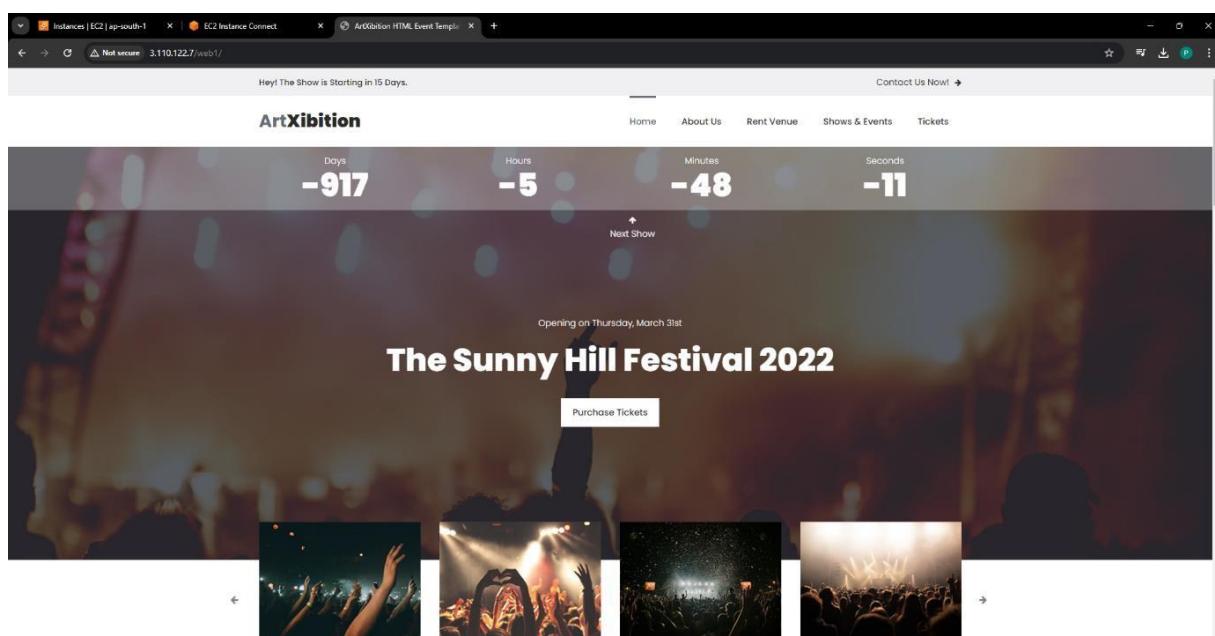
--> do the changes and then it should look like

--> 0.0.0.0.0.0.0.0/web1/

Step-33 In-order to access the other 2 websites in a new tab:

0.0.0.0.0.0.0.0/web2/

0.0.0.0.0.0.0.0/web3/





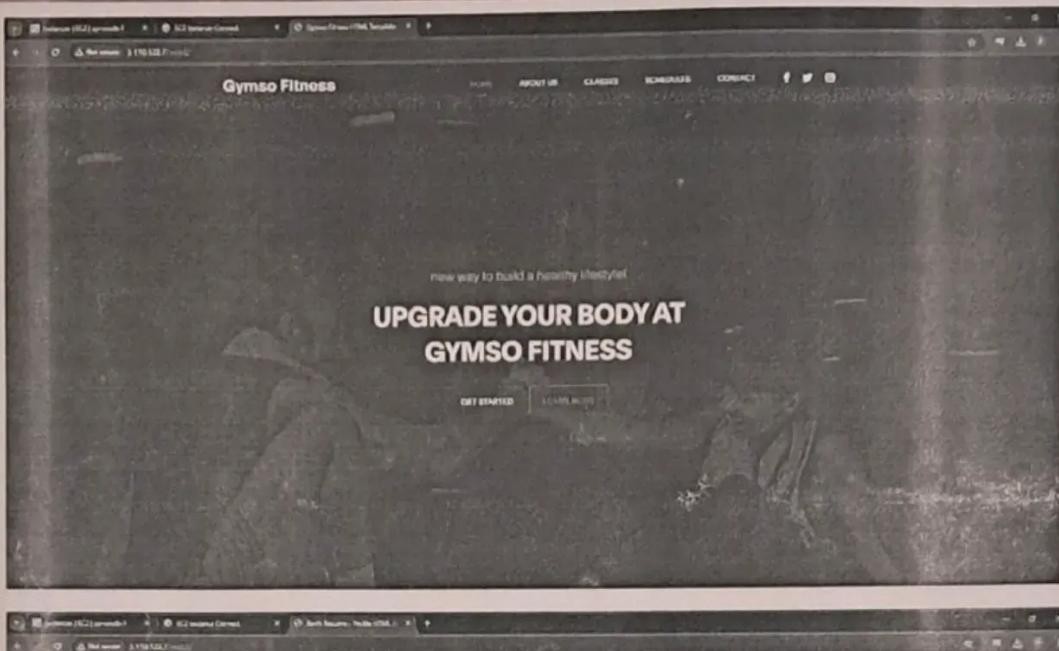
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