

Name: **Piyusha Rajendra Supe**

Enrolment Number: **23CO315** (TE-B)

## **Practical 01**

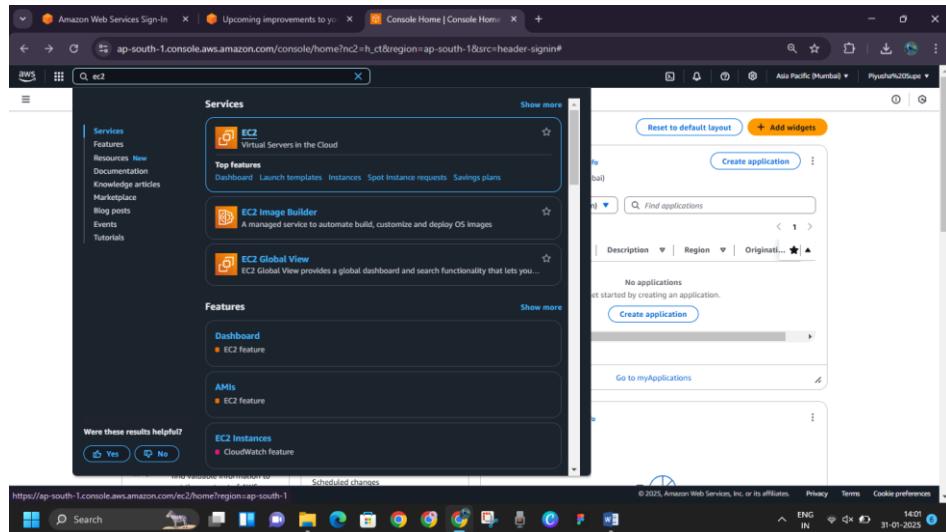
**Aim:** Launch an EC2 instance, create a server and host your website through it

The steps are as follows:

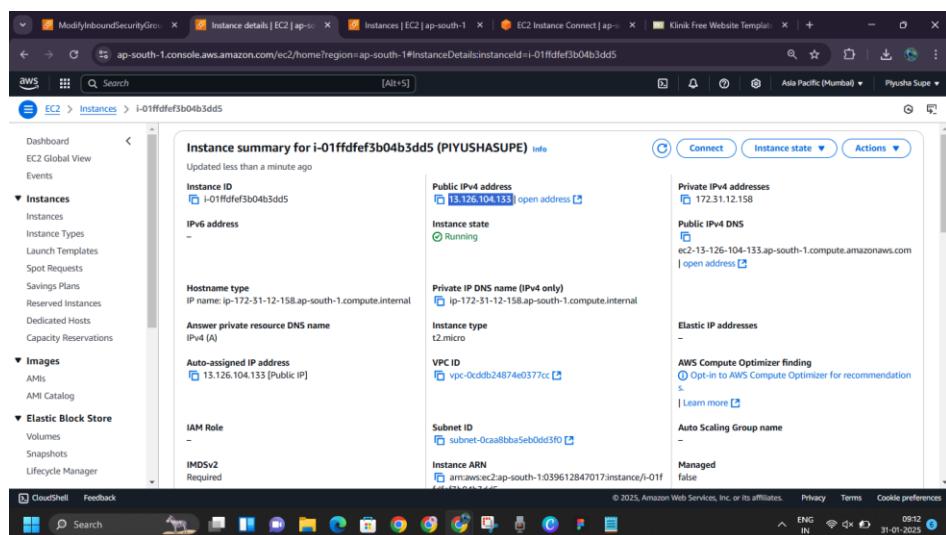
First let's create an instance for launching an OS on it, to create an instance simply navigate to Amazon EC2 console

### **METHOD 1: INSTALLING HTTPD SERVER AND HOSTING A WEBSITE**

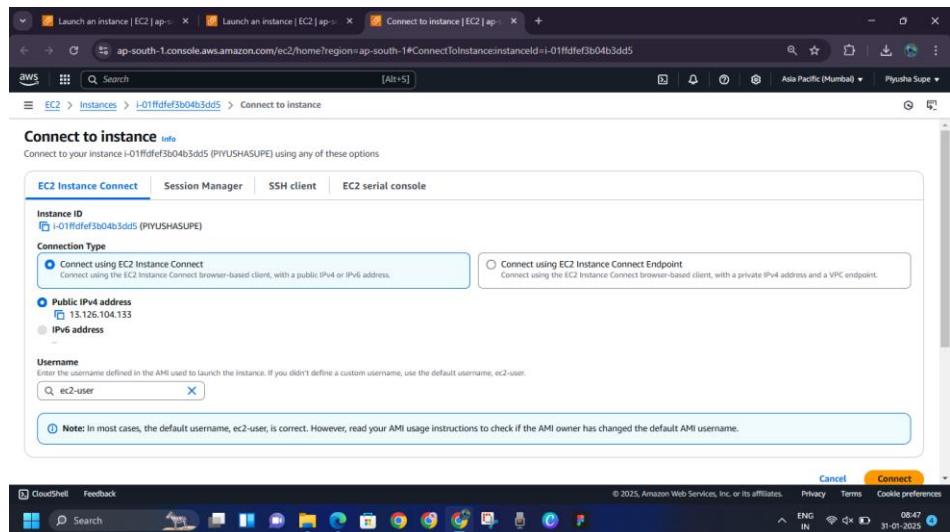
[1] Navigate to EC2 in the AWS Console



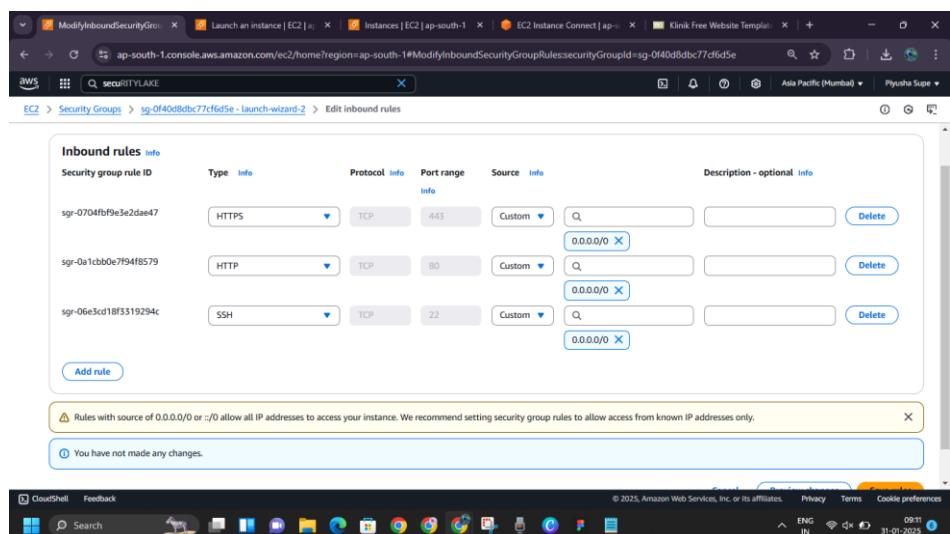
[2] Launch an instance



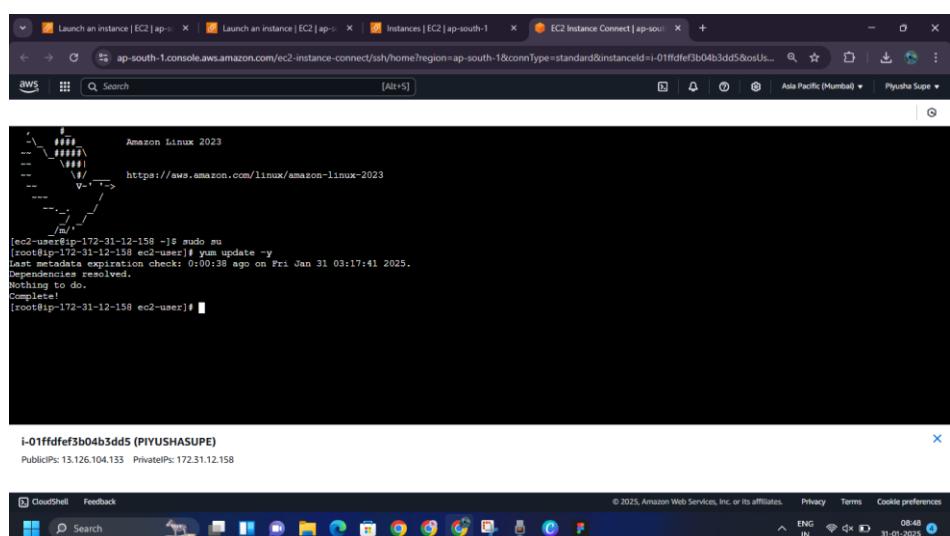
### [3] Connect to your instance



### Edit inbound rules for instance



### [4] Launch your connected instance



## [5] Install the httpd server

```

[ec2-user@ip-172-31-12-158 ~]$ sudo su
[root@ip-172-31-12-158 ec2-user]# yum update -y
Last metadata expiration check: 0:00:38 ago on Fri Jan 31 03:17:41 2025.
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-172-31-12-158 ec2-user]# yum install -y httpd
Last metadata expiration check: 0:00:54 ago on Fri Jan 31 03:17:41 2025.
Dependencies resolved.

Package           Architecture     Version          Repository      Size
Installing:
httpd             x86_64          2.4.62-1.amzn2023   amazonlinux    48 k
Installing dependencies:
apr               x86_64          1.7.5-1.amzn2023.0.2  amazonlinux   130 k
apr-util          x86_64          1.6.3-1.amzn2023.0.1  amazonlinux   98 k
generic-logos-httpd  noarch        18.0.0-12.amzn2023.0.3  amazonlinux   19 k
httpd-core        x86_64          2.4.62-1.amzn2023   amazonlinux   1.4 M
httpd-filesystem  noarch        2.4.62-1.amzn2023   amazonlinux   14 k
httpd-tools       x86_64          2.4.62-1.amzn2023   amazonlinux   81 k
libbrotli         x86_64          1.0.9-4.amzn2023.0.2  amazonlinux   315 k
mailcap           noarch        2.1.49-3.amzn2023.0.3  amazonlinux   33 k
Installing weak dependencies:
apr-util-openssl  x86_64          1.6.3-1.amzn2023.0.1  amazonlinux   17 k

i-01ffdfef3b04b3dd5 (PIYUSHASUPE)
PublicIPs: 13.126.104.133 PrivateIPs: 172.31.12.158

```

## [7] Installation looks like this

```

Installing : httpd-core-2.
Installing : mod_http2-2.0.27-1.amzn2023.0.3.x86_64
Installing : mod_lua-2.4.62-1.amzn2023.x86_64
Installing : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
Installing : httpd-2.4.62-1.amzn2023.x86_64
Running scriptlet: httpd-2.4.62-1.amzn2023.x86_64
Verifying : apr-1.7.5-1.amzn2023.0.2.x86_64
Verifying : apr-util-1.6.3-1.amzn2023.0.1.x86_64
Verifying : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64
Verifying : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
Verifying : httpd-2.4.62-1.amzn2023.x86_64
Verifying : httpd-core-2.4.62-1.amzn2023.x86_64
Verifying : httpd-filesystem-2.4.62-1.amzn2023.noarch
Verifying : httpd-tools-2.4.62-1.amzn2023.x86_64
Verifying : libbrotli-1.0.9-4.amzn2023.0.2.x86_64
Verifying : mailcap-2.1.49-3.amzn2023.0.3.noarch
Verifying : mod_http2-2.0.27-1.amzn2023.0.3.x86_64
Verifying : mod_lua-2.4.62-1.amzn2023.x86_64

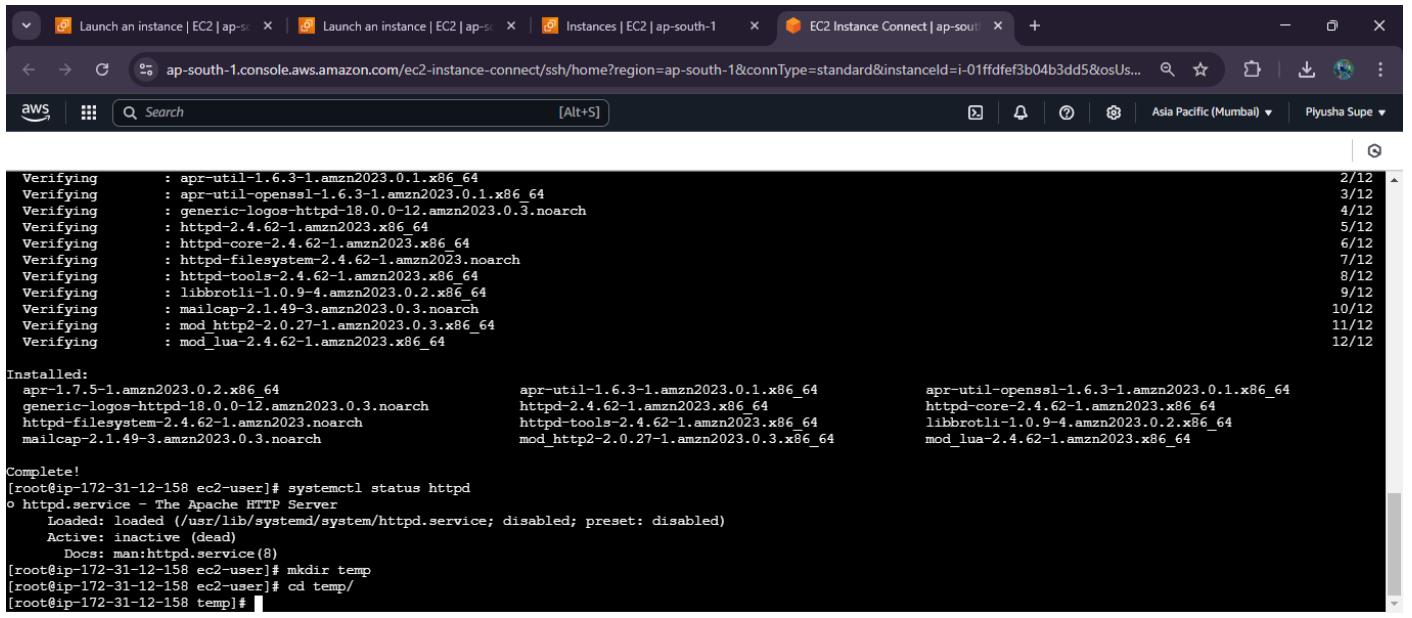
Installed:
apr-1.7.5-1.amzn2023.0.2.x86_64
generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
httpd-filesystem-2.4.62-1.amzn2023.noarch
mailcap-2.1.49-3.amzn2023.0.3.noarch

april-util-1.6.3-1.amzn2023.0.1.x86_64
httpd-2.4.62-1.amzn2023.x86_64
httpd-tools-2.4.62-1.amzn2023.x86_64
mod_http2-2.0.27-1.amzn2023.0.3.x86_64
mod_lua-2.4.62-1.amzn2023.x86_64

Complete!
i-01ffdfef3b04b3dd5 (PIYUSHASUPE)
PublicIPs: 13.126.104.133 PrivateIPs: 172.31.12.158

```

[8] Check the status and make a directory for example temp



```

Verifying : apr-util-1.6.3-1.amzn2023.0.1.x86_64          2/12
Verifying : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64    3/12
Verifying : generic-logos-httd-18.0.0-12.amzn2023.0.3.noarch 4/12
Verifying : httpd-2.4.62-1.amzn2023.x86_64                5/12
Verifying : httpd-core-2.4.62-1.amzn2023.x86_64            6/12
Verifying : httpd-filesystem-2.4.62-1.amzn2023.noarch       7/12
Verifying : httpd-tools-2.4.62-1.amzn2023.x86_64           8/12
Verifying : libbrotli-1.0.9-4.amzn2023.0.2.x86_64          9/12
Verifying : mailcap-2.1.49-3.amzn2023.0.3.noarch           10/12
Verifying : mod_http2-2.0.27-1.amzn2023.0.3.x86_64         11/12
Verifying : mod_lua-2.4.62-1.amzn2023.x86_64               12/12

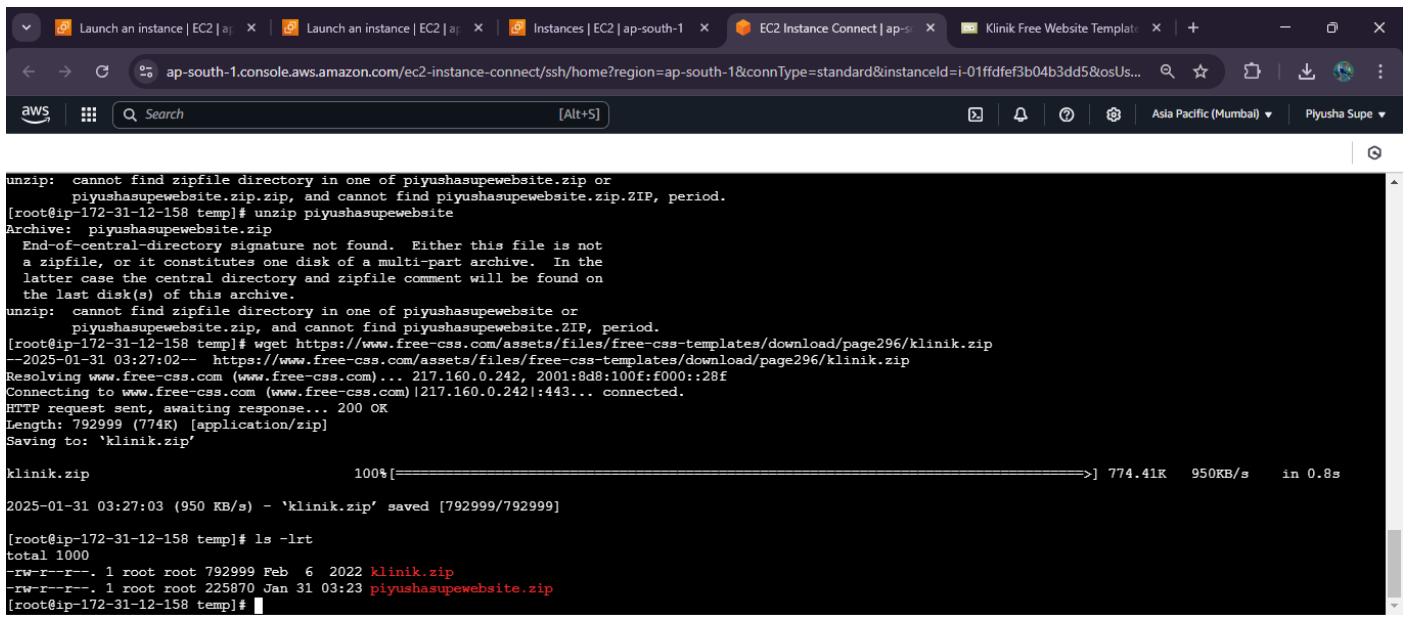
Installed:
apr-1.7.5-1.amzn2023.0.2.x86_64
generic-logos-httd-18.0.0-12.amzn2023.0.3.noarch
httpd-filesystem-2.4.62-1.amzn2023.noarch
mailcap-2.1.49-3.amzn2023.0.3.noarch
mod_http2-2.0.27-1.amzn2023.0.3.x86_64
mod_lua-2.4.62-1.amzn2023.x86_64

Complete!
[root@ip-172-31-12-158 ec2-user]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: disabled)
     Active: inactive (dead)
       Docs: man:httpd.service(8)
[root@ip-172-31-12-158 ec2-user]# mkdir temp
[root@ip-172-31-12-158 ec2-user]# cd temp/
[root@ip-172-31-12-158 temp]#

```

**i-01ffdef3b04b3dd5 (PIYUSHASUPE)**  
PublicIPs: 13.126.104.133 PrivateIPs: 172.31.12.158

[9] Take the zip file of the default website which you want to host on the server



```

unzip: cannot find zipfile directory in one of piyushasupewebsite.zip or
piyushasupewebsite.zip.zip, and cannot find piyushasupewebsite.zip.ZIP, period.
[root@ip-172-31-12-158 temp]# unzip piyushasupewebsite
Archive: piyushasupewebsite.zip
End-of-central-directory signature not found. Either this file is not
a zipfile, or it constitutes one disk of a multi-part archive. In the
latter case the central directory and zipfile comment will be found on
the last disk(s) of this archive.
unzip: cannot find zipfile directory in one of piyushasupewebsite or
piyushasupewebsite.zip, and cannot find piyushasupewebsite.ZIP, period.
[root@ip-172-31-12-158 temp]# wget https://www.free-css.com/assets/files/free-css-templates/download/page296/klinik.zip
2025-01-31 03:27:02-- https://www.free-css.com/assets/files/free-css-templates/download/page296/klinik.zip
Resolving www.free-css.com (www.free-css.com)... 217.160.0.242, 2001:8d8:100f:f000::28f
Connecting to www.free-css.com (www.free-css.com)|217.160.0.242|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 792999 (774K) [application/zip]
Saving to: 'klinik.zip'

klinik.zip          100%[=====] 774.41K  950KB/s   in 0.8s

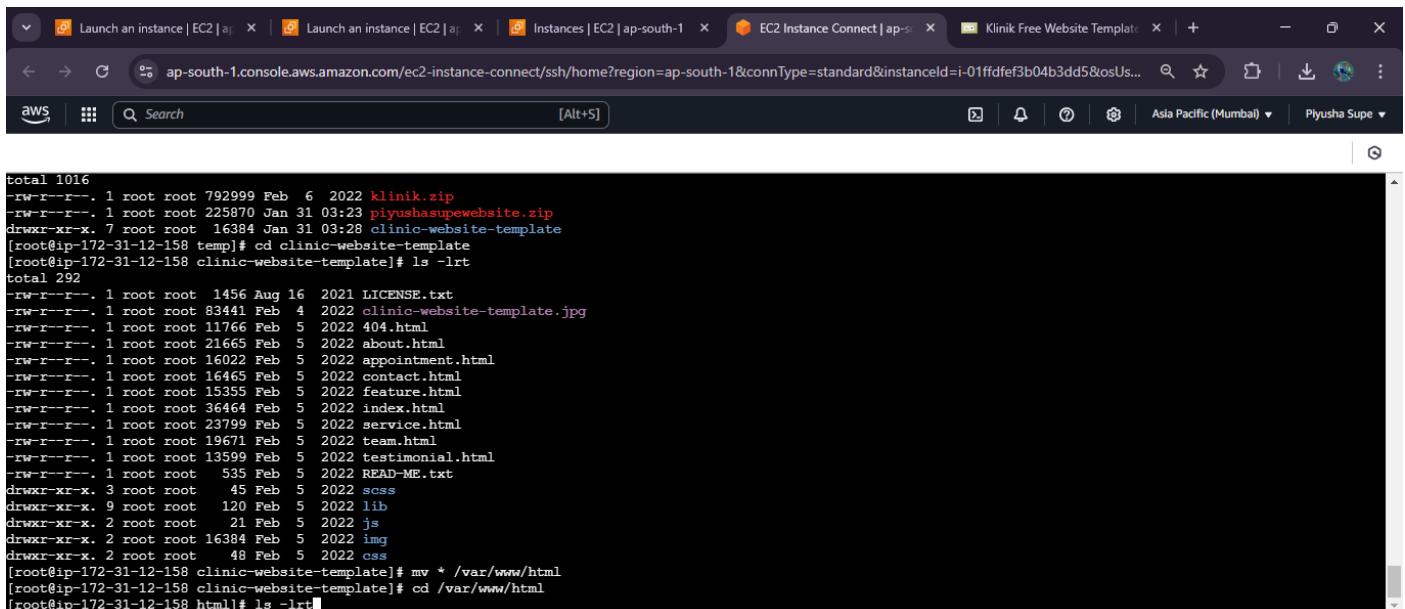
2025-01-31 03:27:03 (950 KB/s) - 'klinik.zip' saved [792999/792999]

[root@ip-172-31-12-158 temp]# ls -lrt
total 1000
-rw-r--r--. 1 root root 792999 Feb  6 2022 klinik.zip
-rw-r--r--. 1 root root 225870 Jan 31 03:23 piyushasupewebsite.zip
[root@ip-172-31-12-158 temp]#

```

**i-01ffdef3b04b3dd5 (PIYUSHASUPE)**  
PublicIPs: 13.126.104.133 PrivateIPs: 172.31.12.158

[10] Download the zip file and unzip it and check the contents of the folder



```

total 1016
-rw-r--r--. 1 root root 792999 Feb  6 2022 klinik.zip
-rw-r--r--. 1 root root 225870 Jan 31 03:23 piyushasupewebsite.zip
drwxr-xr-x. 7 root root 16384 Jan 31 03:28 clinic-website-template
[root@ip-172-31-12-158 temp]# cd clinic-website-template
[root@ip-172-31-12-158 clinic-website-template]# ls -lrt
total 292
-rw-r--r--. 1 root root 1456 Aug 16 2021 LICENSE.txt
-rw-r--r--. 1 root root 83441 Feb  4 2022 clinic-website-template.jpg
-rw-r--r--. 1 root root 11766 Feb  5 2022 404.html
-rw-r--r--. 1 root root 21665 Feb  5 2022 about.html
-rw-r--r--. 1 root root 16022 Feb  5 2022 appointment.html
-rw-r--r--. 1 root root 16465 Feb  5 2022 contact.html
-rw-r--r--. 1 root root 15355 Feb  5 2022 feature.html
-rw-r--r--. 1 root root 36464 Feb  5 2022 index.html
-rw-r--r--. 1 root root 23799 Feb  5 2022 service.html
-rw-r--r--. 1 root root 19671 Feb  5 2022 team.html
-rw-r--r--. 1 root root 13599 Feb  5 2022 testimonial.html
-rw-r--r--. 1 root root 535 Feb  5 2022 READ-ME.txt
drwxr-xr-x. 3 root root  45 Feb  5 2022 scss
drwxr-xr-x. 9 root root 120 Feb  5 2022 lib
drwxr-xr-x. 2 root root  21 Feb  5 2022 js
drwxr-xr-x. 2 root root 16384 Feb  5 2022 img
drwxr-xr-x. 2 root root  48 Feb  5 2022 css
[root@ip-172-31-12-158 clinic-website-template]# mv * /var/www/html
[root@ip-172-31-12-158 clinic-website-template]# cd /var/www/html
[root@ip-172-31-12-158 html]# ls -lrt

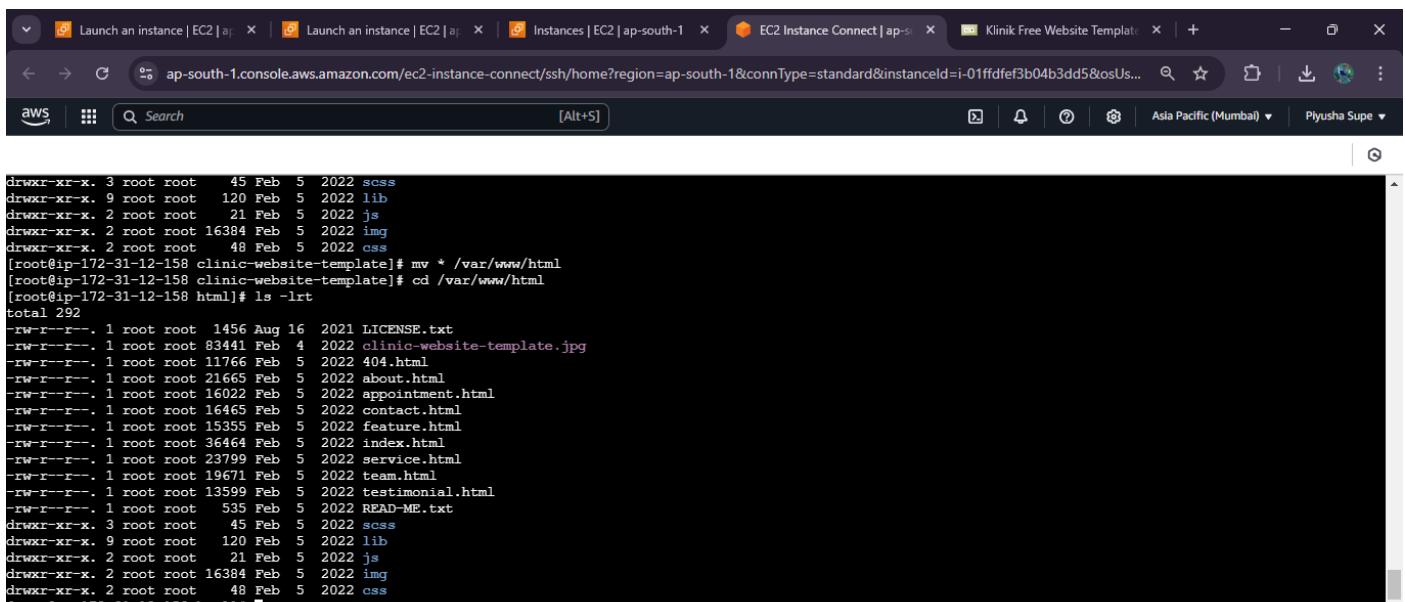
```

**i-01ffdfef3b04b3dd5 (PIYUSHASUPE)**

PublicIPs: 13.126.104.133 PrivateIPs: 172.31.12.158



[11] Move to the server folders



```

drwxr-xr-x. 3 root root  45 Feb  5 2022 scss
drwxr-xr-x. 9 root root 120 Feb  5 2022 lib
drwxr-xr-x. 2 root root  21 Feb  5 2022 js
drwxr-xr-x. 2 root root 16384 Feb  5 2022 img
drwxr-xr-x. 2 root root  48 Feb  5 2022 css
[root@ip-172-31-12-158 clinic-website-template]# mv * /var/www/html
[root@ip-172-31-12-158 clinic-website-template]# cd /var/www/html
[root@ip-172-31-12-158 html]# ls -lrt
total 292
-rw-r--r--. 1 root root 1456 Aug 16 2021 LICENSE.txt
-rw-r--r--. 1 root root 83441 Feb  4 2022 clinic-website-template.jpg
-rw-r--r--. 1 root root 11766 Feb  5 2022 404.html
-rw-r--r--. 1 root root 21665 Feb  5 2022 about.html
-rw-r--r--. 1 root root 16022 Feb  5 2022 appointment.html
-rw-r--r--. 1 root root 16465 Feb  5 2022 contact.html
-rw-r--r--. 1 root root 15355 Feb  5 2022 feature.html
-rw-r--r--. 1 root root 36464 Feb  5 2022 index.html
-rw-r--r--. 1 root root 23799 Feb  5 2022 service.html
-rw-r--r--. 1 root root 19671 Feb  5 2022 team.html
-rw-r--r--. 1 root root 13599 Feb  5 2022 testimonial.html
-rw-r--r--. 1 root root 535 Feb  5 2022 READ-ME.txt
drwxr-xr-x. 3 root root  45 Feb  5 2022 scss
drwxr-xr-x. 9 root root 120 Feb  5 2022 lib
drwxr-xr-x. 2 root root  21 Feb  5 2022 js
drwxr-xr-x. 2 root root 16384 Feb  5 2022 img
drwxr-xr-x. 2 root root  48 Feb  5 2022 css
[root@ip-172-31-12-158 html]# 

```

**i-01ffdfef3b04b3dd5 (PIYUSHASUPE)**

PublicIPs: 13.126.104.133 PrivateIPs: 172.31.12.158



[12] Enable server and check again if the server is started

```

total 292
-rw-r--r--. 1 root root 1456 Aug 16 2021 LICENSE.txt
-rw-r--r--. 1 root root 83441 Feb 4 2022 clinic-website-template.jpg
-rw-r--r--. 1 root root 11766 Feb 5 2022 404.html
-rw-r--r--. 1 root root 21665 Feb 5 2022 about.html
-rw-r--r--. 1 root root 16022 Feb 5 2022 appointment.html
-rw-r--r--. 1 root root 16465 Feb 5 2022 contact.html
-rw-r--r--. 1 root root 15355 Feb 5 2022 feature.html
-rw-r--r--. 1 root root 36464 Feb 5 2022 index.html
-rw-r--r--. 1 root root 23799 Feb 5 2022 service.html
-rw-r--r--. 1 root root 19671 Feb 5 2022 team.html
-rw-r--r--. 1 root root 13599 Feb 5 2022 testimonial.html
-rw-r--r--. 1 root root 535 Feb 5 2022 READ-ME.txt
drwxr-xr-x. 3 root root 45 Feb 5 2022 scss
drwxr-xr-x. 9 root root 120 Feb 5 2022 lib
drwxr-xr-x. 2 root root 21 Feb 5 2022 js
drwxr-xr-x. 2 root root 16384 Feb 5 2022 img
drwxr-xr-x. 2 root root 48 Feb 5 2022 css
[root@ip-172-31-12-158 html]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: disabled)
   Active: inactive (dead)
     Docs: man:httpd.service(8)
[root@ip-172-31-12-158 html]# systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-12-158 html]# systemctl start httpd
[root@ip-172-31-12-158 html]#

```

i-01ffdef3b04b3dd5 (PIYUSHASUPE)

PublicIPs: 13.126.104.133 PrivateIPs: 172.31.12.158

[13] When started successfully it will show active (running)

```

Last login: Fri Jan 31 03:17:24 2025 from 13.233.177.5
[ec2-user@ip-172-31-12-158 ~]$ systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
   Active: active (running) since Fri 2025-01-31 03:34:00 UTC; 4min 17s ago
     Docs: man:httpd.service(8)
Main PID: 26793 (httpd)
   Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served/sec: 0 B/sec"
      Tasks: 177 (limit: 1111)
     Memory: 12.9M
        CPU: 198ms
       CGroup: /system.slice/httpd.service
           ├─26793 /usr/sbin/httpd -DFOREGROUND
           ├─26794 /usr/sbin/httpd -DFOREGROUND
           ├─26795 /usr/sbin/httpd -DFOREGROUND
           ├─26796 /usr/sbin/httpd -DFOREGROUND
           └─26797 /usr/sbin/httpd -DFOREGROUND

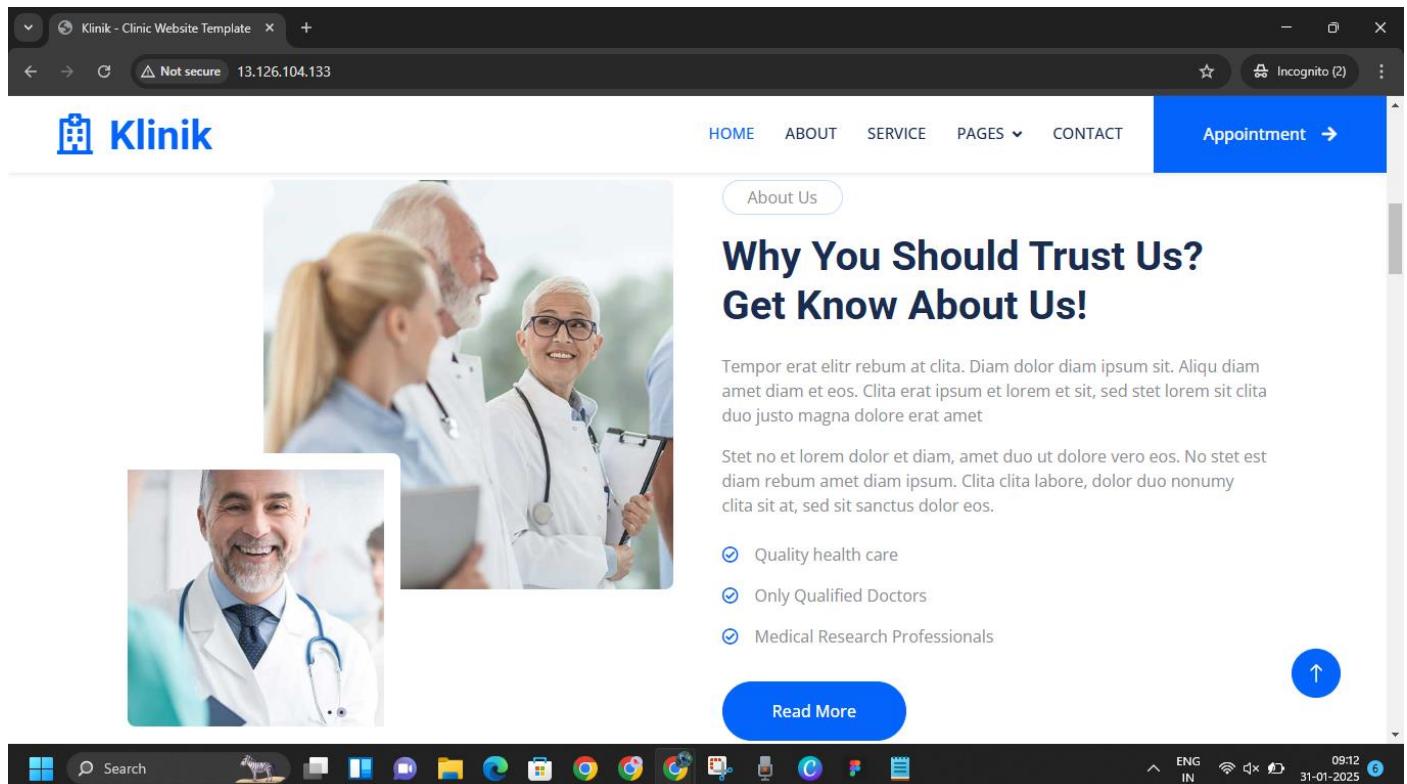
Jan 31 03:34:00 ip-172-31-12-158.ap-south-1.compute.internal systemd[1]: Starting httpd.service - The Apache HTTP Server...
Jan 31 03:34:00 ip-172-31-12-158.ap-south-1.compute.internal systemd[1]: Started httpd.service - The Apache HTTP Server.
Jan 31 03:34:00 ip-172-31-12-158.ap-south-1.compute.internal httpd[26793]: Server configured, listening on: port 80
[ec2-user@ip-172-31-12-158 ~]$ 

```

i-01ffdef3b04b3dd5 (PIYUSHASUPE)

PublicIPs: 13.126.104.133 PrivateIPs: 172.31.12.158

[14] Now only copy the IP address of the instances public IP and access your website



## METHOD 2: USING UBUNTU FOR LAUNCHING APACHE SERVER

[1] Launch an instance first

## [2] Connect to your instance

The screenshot shows the AWS EC2 Connect interface for connecting to an instance. The instance ID is i-0e31e54524f540bdc (PIYUSHA-SUPE-UBUNTU). The 'EC2 Instance Connect' tab is selected. Under 'Connection Type', the 'Public IPv4 address' option is chosen, showing 13.201.89.68. The 'Username' field contains 'ubuntu'. A note at the bottom states: 'Note: In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.' The 'Connect' button is highlighted with a mouse cursor.

## [3] Run command sudo apt update -y

The screenshot shows the EC2 Instance Connect terminal window. The user runs the command `sudo apt update -y`. The output shows the system load, memory usage, and swap usage. It indicates that no updates can be applied immediately. It also mentions ESM Apps and the availability of updates. The terminal shows the user's session details: PublicIP: 13.201.89.68 and PrivateIP: 172.31.4.232. The bottom status bar shows the date and time as 31-01-2025 14:40.

```

System load: 0.94      Processes:          105
Usage of /: 24.9% of 6.71GB   Users logged in: 0
Memory usage: 22%
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 list of available updates is more than a week old.
To check for new updates run: sudo apt update

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.

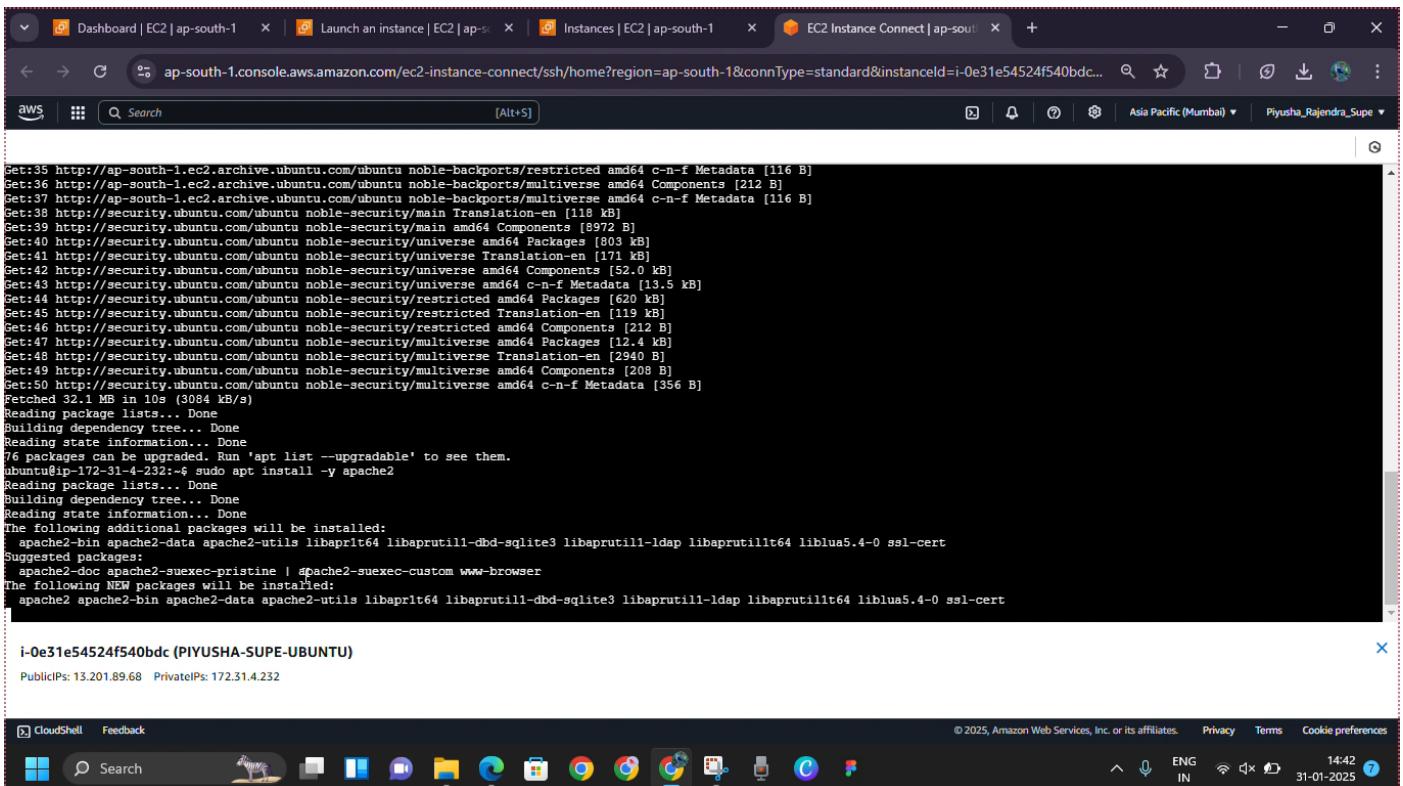
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-4-232:~$ sudo apt update -y
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
0% [Waiting for headers]
i-0e31e54524f540bdc (PIYUSHA-SUPE-UBUNTU)
PublicIP: 13.201.89.68 PrivateIP: 172.31.4.232

```

#### [4] sudo apt install -y apache2

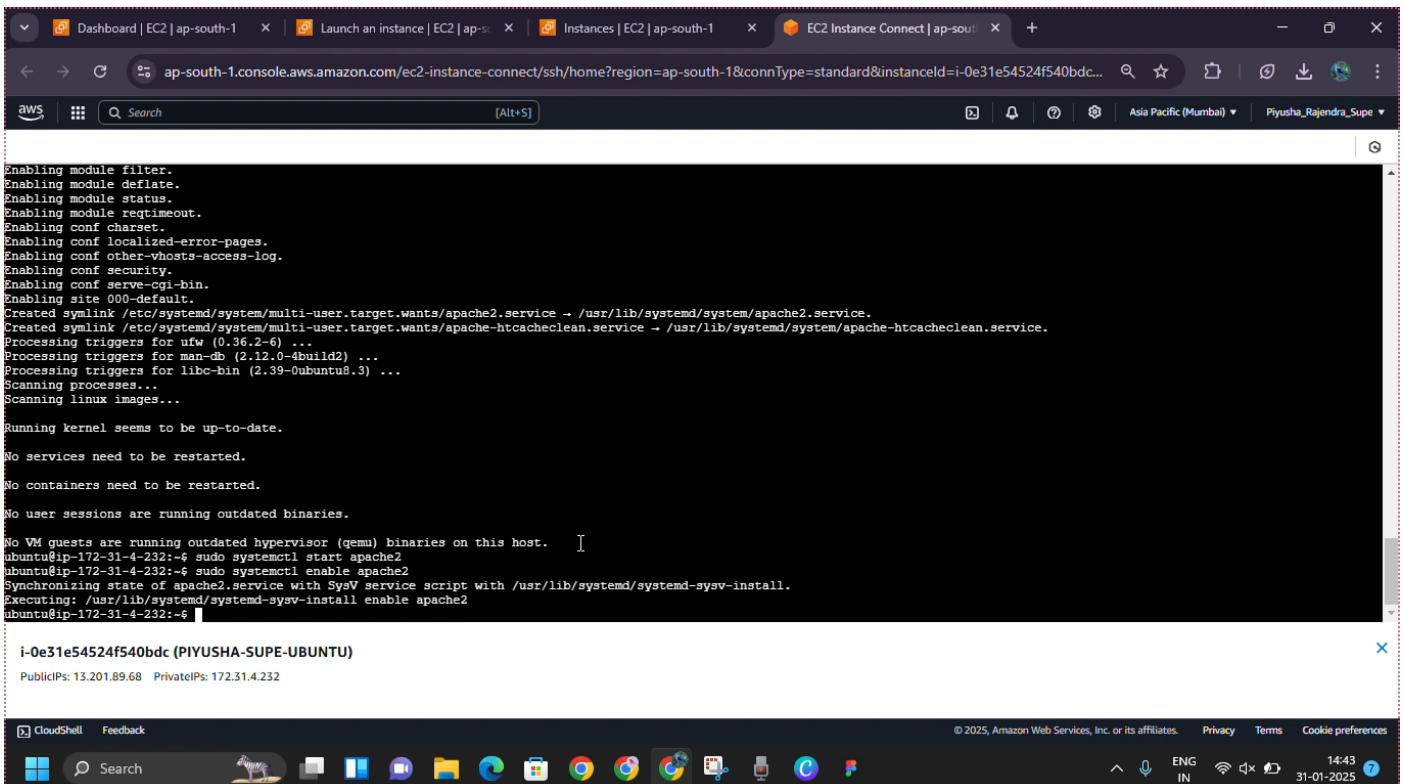


```

Get:35 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 B]
Get:36 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:37 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:38 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [118 kB]
Get:39 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [8972 B]
Get:40 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [803 kB]
Get:41 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [171 kB]
Get:42 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.0 kB]
Get:43 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [13.5 kB]
Get:44 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [620 kB]
Get:45 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [119 kB]
Get:46 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 kB]
Get:47 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [12.4 kB]
Get:48 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [2940 B]
Get:49 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
Get:50 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [356 B]
Fetched 32.1 MB in 10s (3084 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
76 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-4-232:~$ sudo apt install -y apache2
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 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64 liblua5.4-0 ssl-cert
Suggested packages:
apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser
The following NEW packages will be installed:
apache2 apache2-bin apache2-data apache2-utils libaprilt64 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64 liblua5.4-0 ssl-cert
i-0e31e54524f540bdc (PIYUSHA-SUPE-UBUNTU)
PublicIPs: 13.201.89.68 PrivateIPs: 172.31.4.232

```

#### [5] Start and enable your apache2 server



```

Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
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 ufw (0.36.2-6) ...
Processing triggers for man-db (2.12.0-4ubuntu2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...
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-172-31-4-232:~$ sudo systemctl start apache2
ubuntu@ip-172-31-4-232:~$ sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable apache2
ubuntu@ip-172-31-4-232:~$ 
i-0e31e54524f540bdc (PIYUSHA-SUPE-UBUNTU)
PublicIPs: 13.201.89.68 PrivateIPs: 172.31.4.232

```

[6] Check status of your server

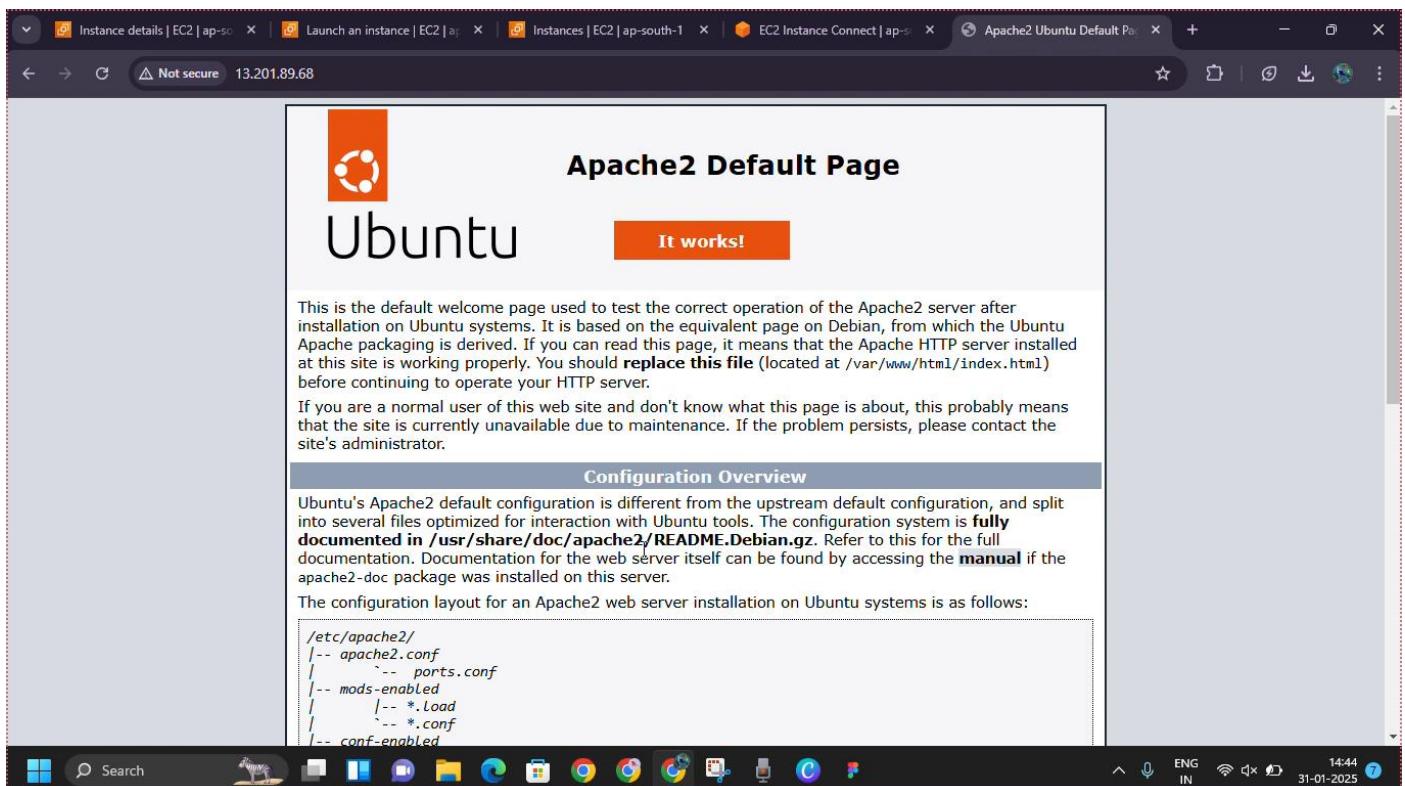
```
No containers need to be restarted.
No user sessions are running outdated binaries.

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

ubuntu@ip-172-31-4-232:~$ sudo systemctl start apache2
ubuntu@ip-172-31-4-232:~$ sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable apache2
ubuntu@ip-172-31-4-232:~$ sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable apache2
ubuntu@ip-172-31-4-232:~$ sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable apache2
ubuntu@ip-172-31-4-232:~$ 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 Fri 2025-01-31 09:12:17 UTC; 1min 23s ago
     Docs: http://httpd.apache.org/docs/2.4/
Main PID: 2524 (apache2)
   Tasks: 55 (limit: 1130)
  Memory: 5.4M (peak: 5.6M)
    CPU: 40ms
   CGroup: /system.slice/apache2.service
           ├─2524 /usr/sbin/apache2 -k start
           ├─2527 /usr/sbin/apache2 -k start
           ├─2528 /usr/sbin/apache2 -k start

Jan 31 09:12:17 ip-172-31-4-232 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Jan 31 09:12:17 ip-172-31-4-232 systemd[1]: Started apache2.service - The Apache HTTP Server.
ubuntu@ip-172-31-4-232:~$ i-0e31e54524f540bdc (PIYUSHA-SUPE-UBUNTU)
PublicIPs: 13.201.89.68 PrivateIPs: 172.31.4.232
```

[7] Now go to the public IP of your instance and then access the default page of your server



**CONCLUSION:** Thus I have successfully launched an EC2 instance and hosted webservers of httpd and apache2 with a website