

Name: **Piyusha Rajendra Supe**

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

## Practical 01

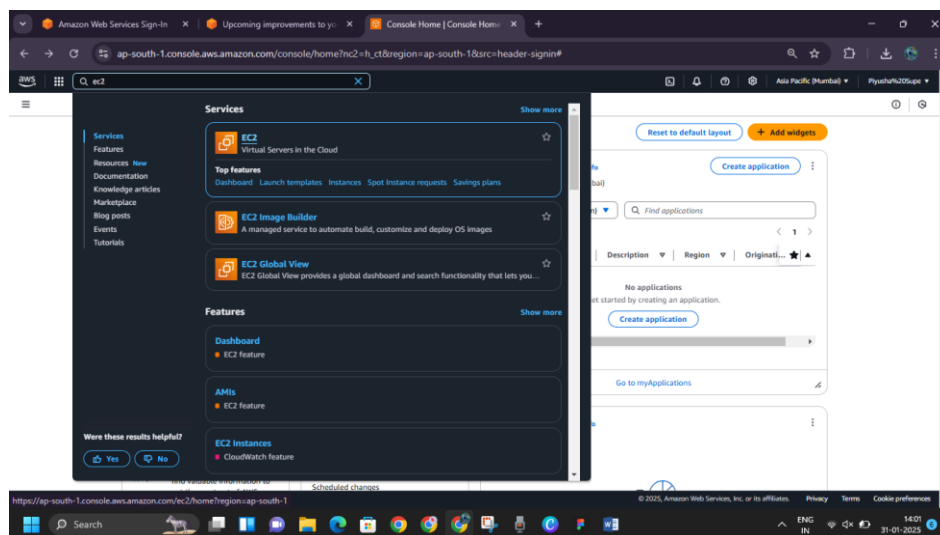
**Aim:** Launch an EC2 instance, create a server and host your website through it

The steps are as follows:

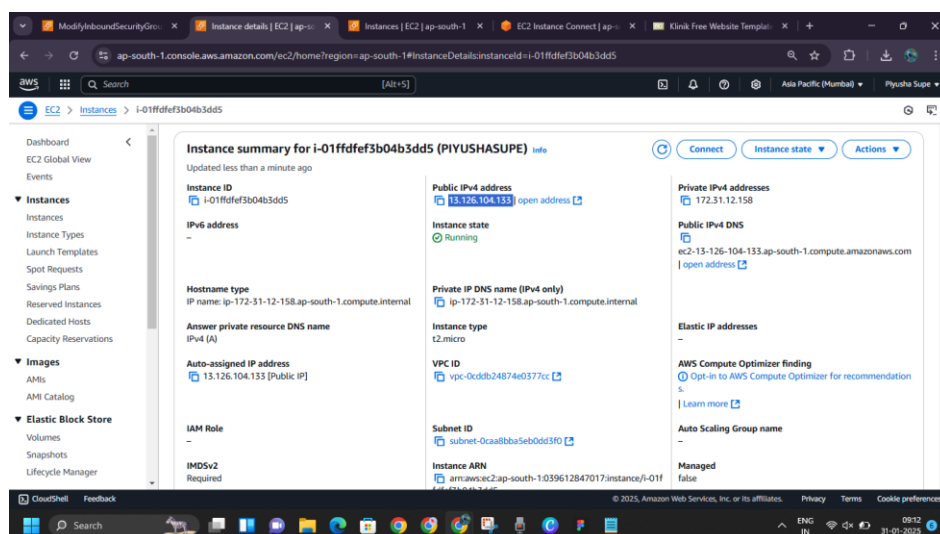
First let's create an instance for launching an OS on it, to create an instance simply navigate to Amazon EC2 console

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

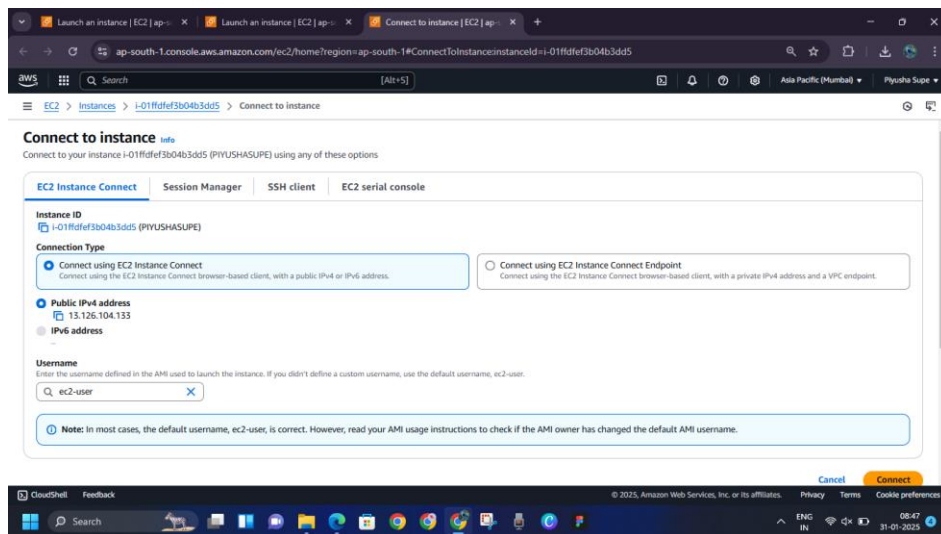
[1] Navigate to EC2 in the AWS Console



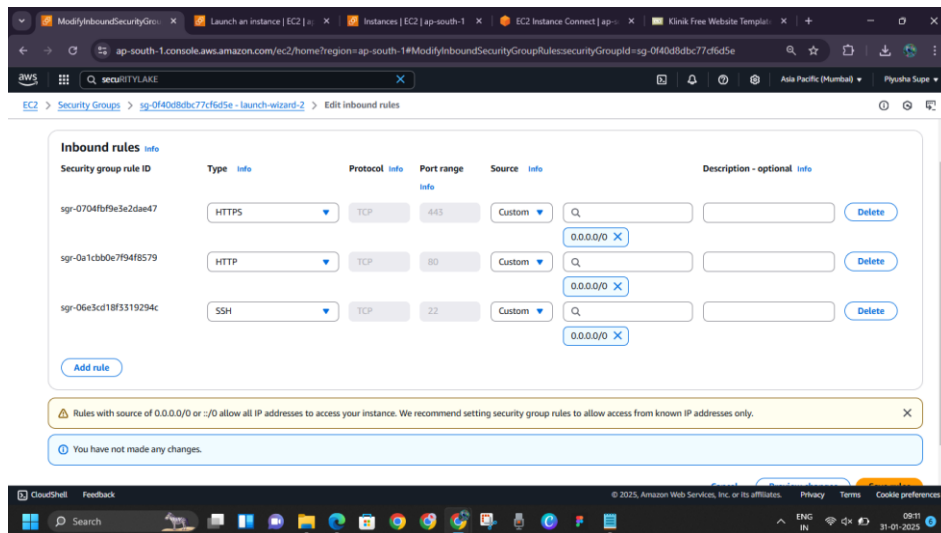
[2] Launch an instance



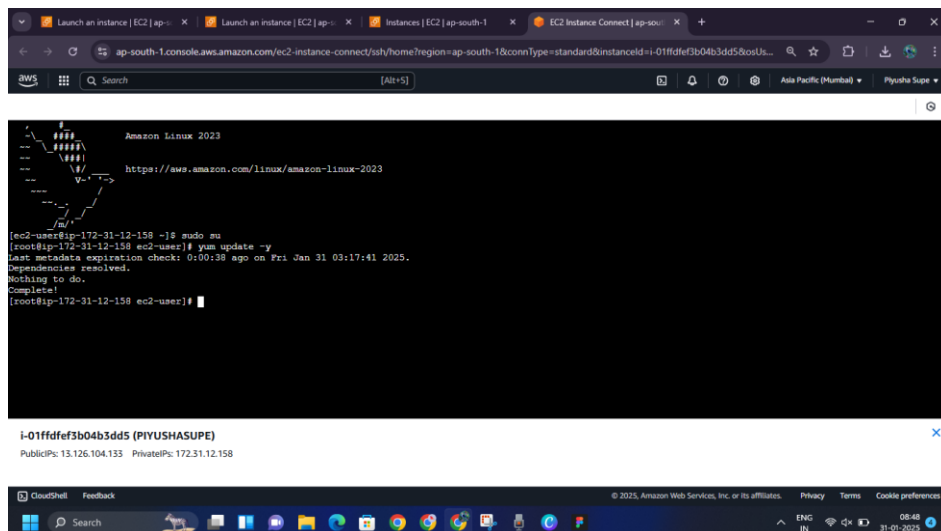
## [3] Connect to your instance



## Edit inbound rules for instance



## [4] Launch your connected instance



[5] Install the httpd server

Launch an instance | EC2 | ap-southeast-1

Launch an instance | EC2 | ap-southeast-1

Instances | EC2 | ap-southeast-1

EC2 Instance Connect | ap-southeast-1

ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=ap-south-1&connType=standard&instanceId=i-01ffdfef3b04b3dd5&osUs...

aws Search [Alt+S]

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```
[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

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[7] Installation looks like this

Launch an instance | EC2 | ap-southeast-1

Launch an instance | EC2 | ap-southeast-1

Instances | EC2 | ap-southeast-1

EC2 Instance Connect | ap-southeast-1

ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?region=ap-south-1&connType=standard&instanceId=i-01ffdfef3b04b3dd5&osUs...

aws Search [Alt+S]

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

Complete!
[root@ip-172-31-12-158 ec2-user]#
```

i-01ffdfef3b04b3dd5 (PIYUSHASUPE)

PublicIPs: 13.126.104.133 PrivateIPs: 172.31.12.158

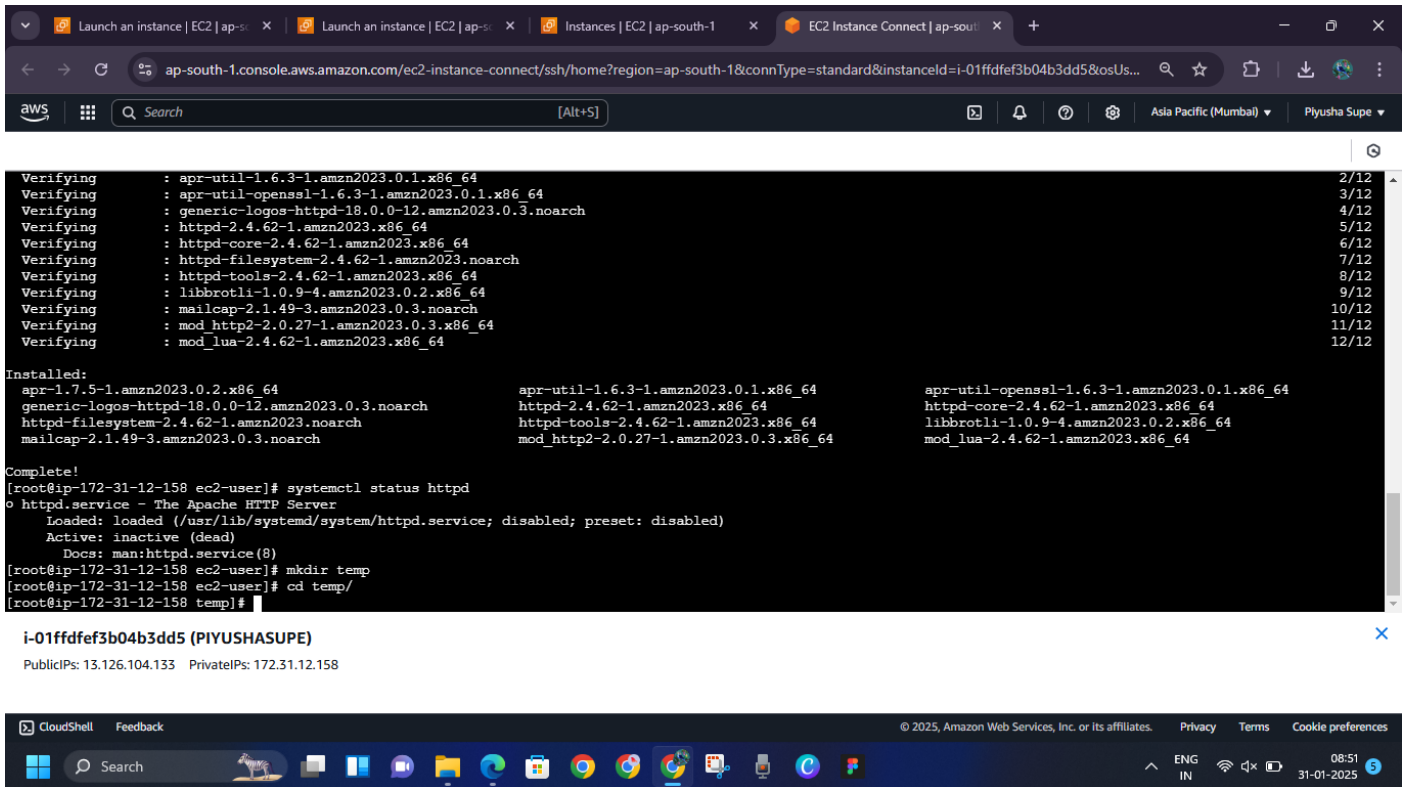
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## [8] Check the status and make a directory for example temp



The screenshot shows the AWS CloudShell interface with a terminal window. The terminal output includes:

```

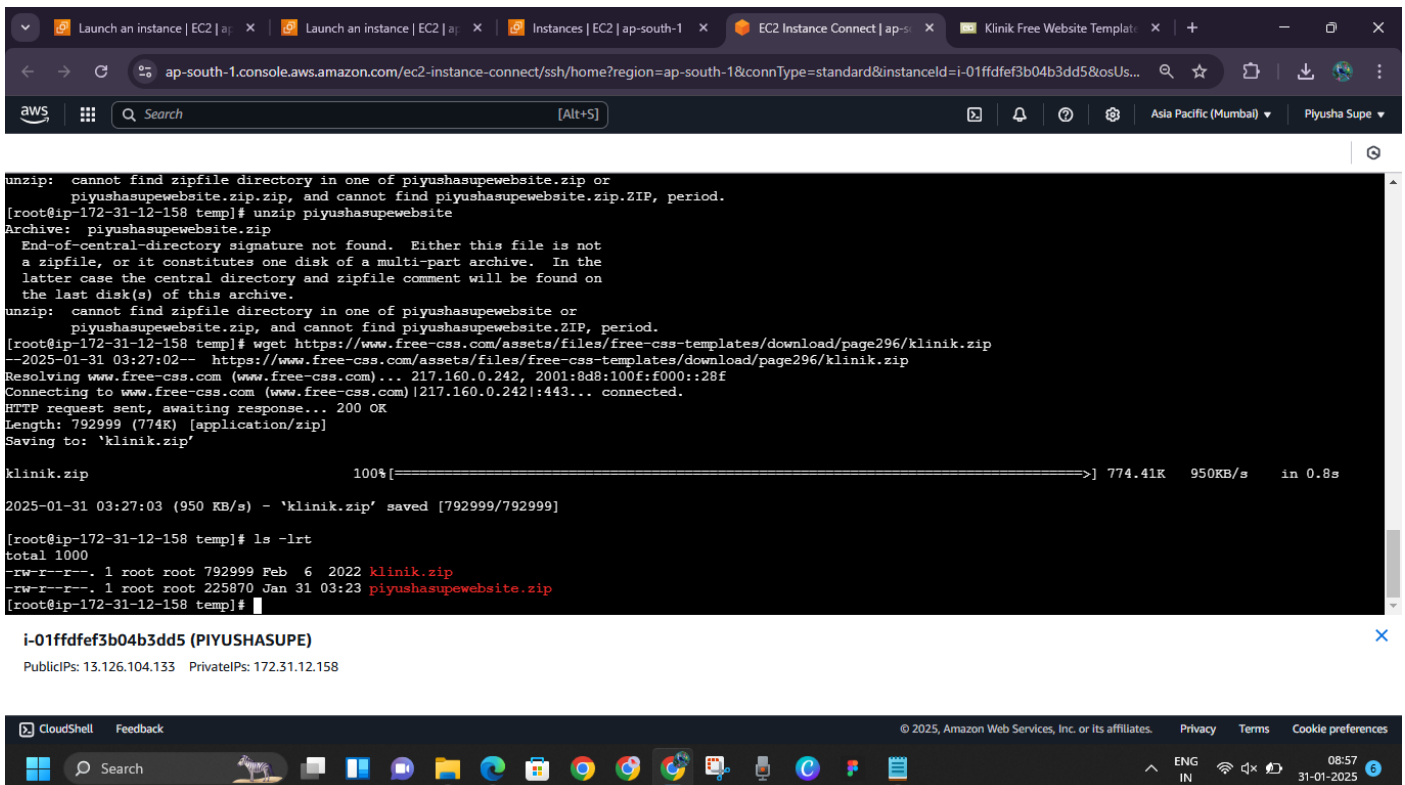
Verifying : apr-util-1.6.3-1.amzn2023.0.1.x86_64 2/12
Verifying : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64 3/12
Verifying : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch 4/12
Verifying : httpd-2.4.62-1.amzn2023.x86_64 5/12
Verifying : httpd-core-2.4.62-1.amzn2023.x86_64 6/12
Verifying : httpd-filesystem-2.4.62-1.amzn2023.noarch 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      apr-util-1.6.3-1.amzn2023.0.1.x86_64      apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64
generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch      httpd-2.4.62-1.amzn2023.x86_64      httpd-core-2.4.62-1.amzn2023.x86_64
httpd-filesystem-2.4.62-1.amzn2023.noarch      httpd-tools-2.4.62-1.amzn2023.x86_64      libbrotli-1.0.9-4.amzn2023.0.2.x86_64
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
o 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]#
  
```

Below the terminal window, the instance details for **i-01ffdef3b04b3dd5 (PIYUSHASUPE)** are shown, including Public IPs: 13.126.104.133 and Private IPs: 172.31.12.158.

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



The screenshot shows the AWS CloudShell interface with a terminal window. The terminal output includes:

```

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]#
  
```

Below the terminal window, the instance details for **i-01ffdef3b04b3dd5 (PIYUSHASUPE)** are shown, including Public IPs: 13.126.104.133 and Private IPs: 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 piyushasuwebsite.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 README.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

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[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 README.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]#

```

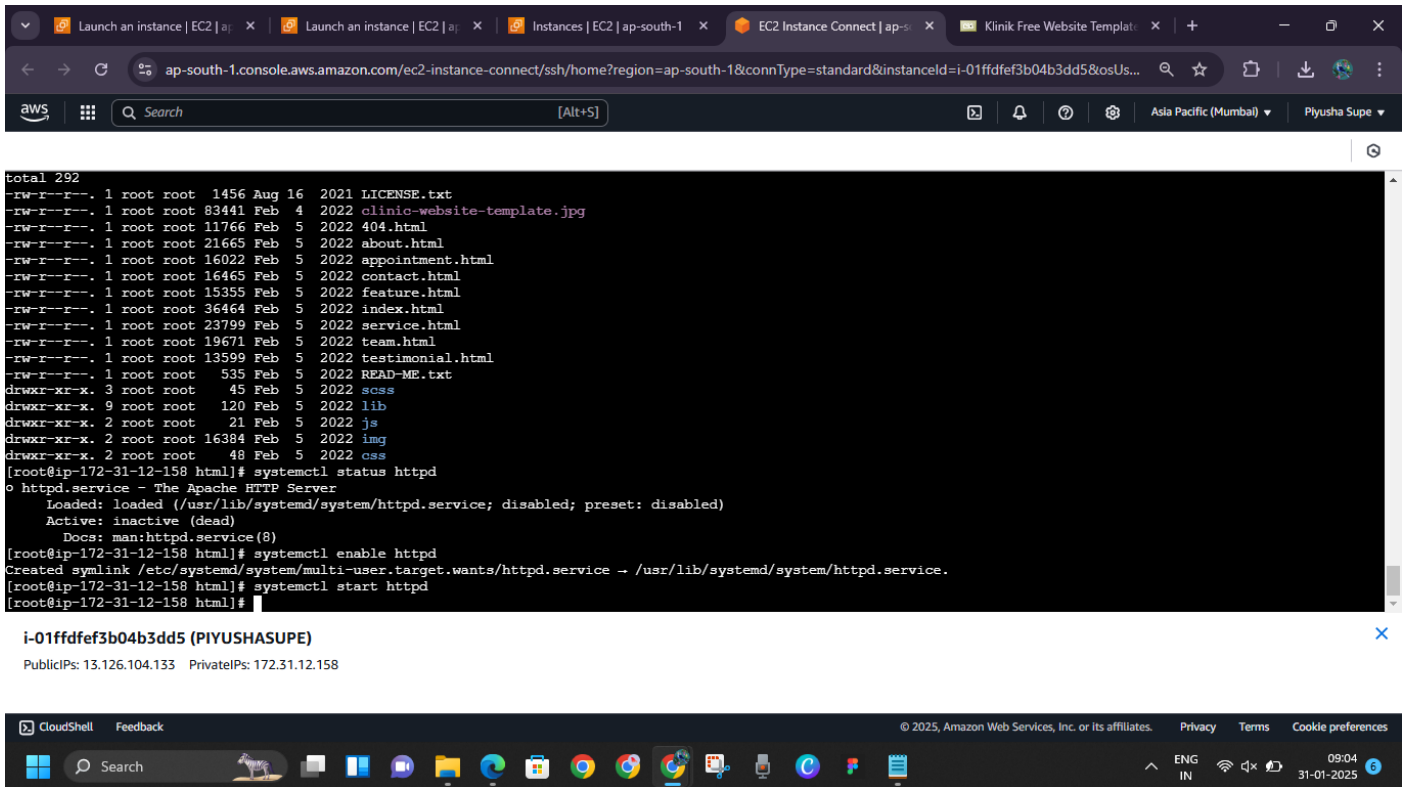
i-01ffdfef3b04b3dd5 (PIYUSHASUPE)

PublicIPs: 13.126.104.133 PrivateIPs: 172.31.12.158

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

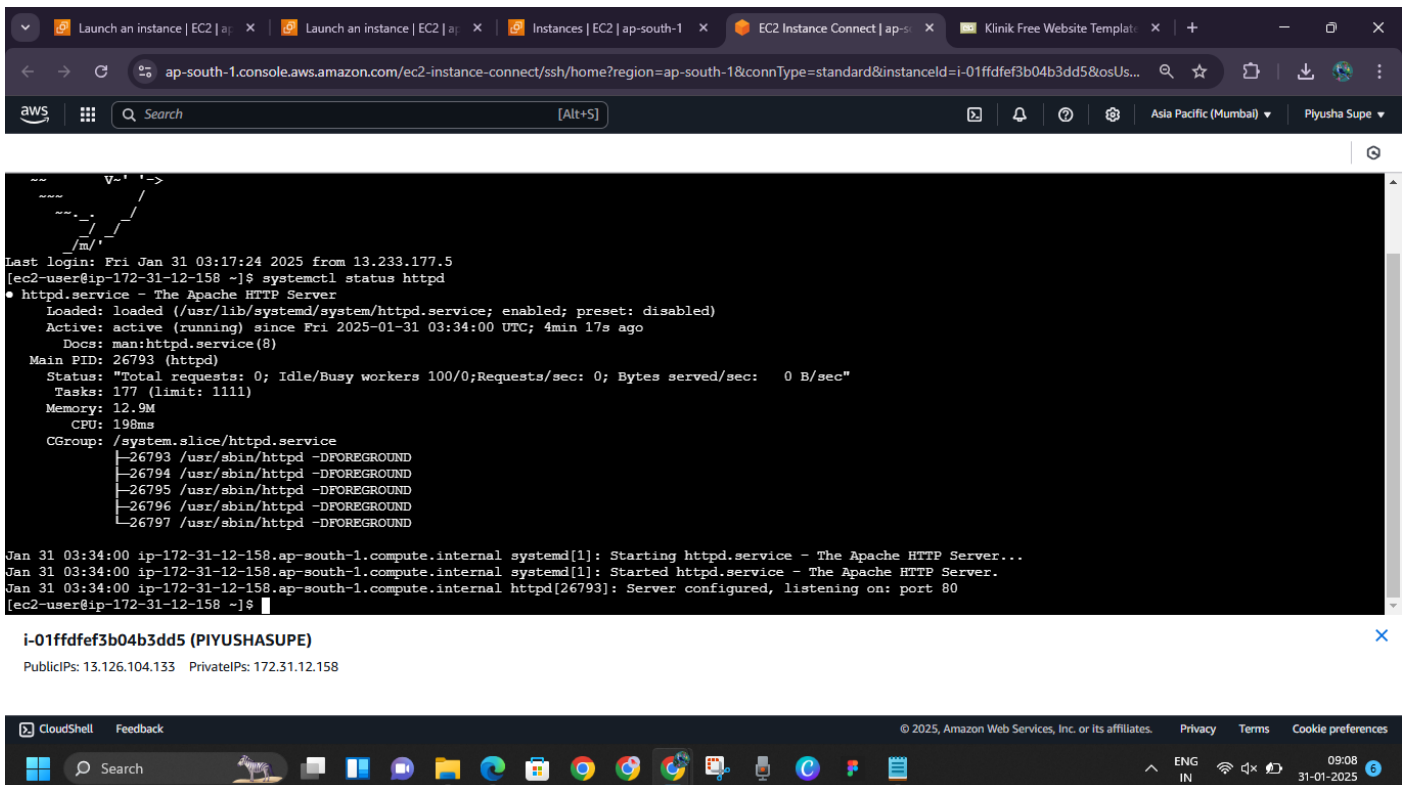


The screenshot shows the AWS Management Console with the terminal output of an EC2 instance. The user is in the root shell and has listed the contents of the /etc directory. They then run `systemctl status httpd`, which shows that the service is inactive. They proceed to run `systemctl enable httpd` and `systemctl start httpd`.

```
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 README-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
o 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-01ffdfef3b04b3dd5 (PIYUSHASUPE)  
PublicIPs: 13.126.104.133 PrivateIPs: 172.31.12.158

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



The screenshot shows the AWS Management Console with the terminal output of an EC2 instance. The user runs `systemctl status httpd`, which now shows that the service is active (running). The output also displays the service's status, including the number of requests, idle/busy workers, and memory usage.

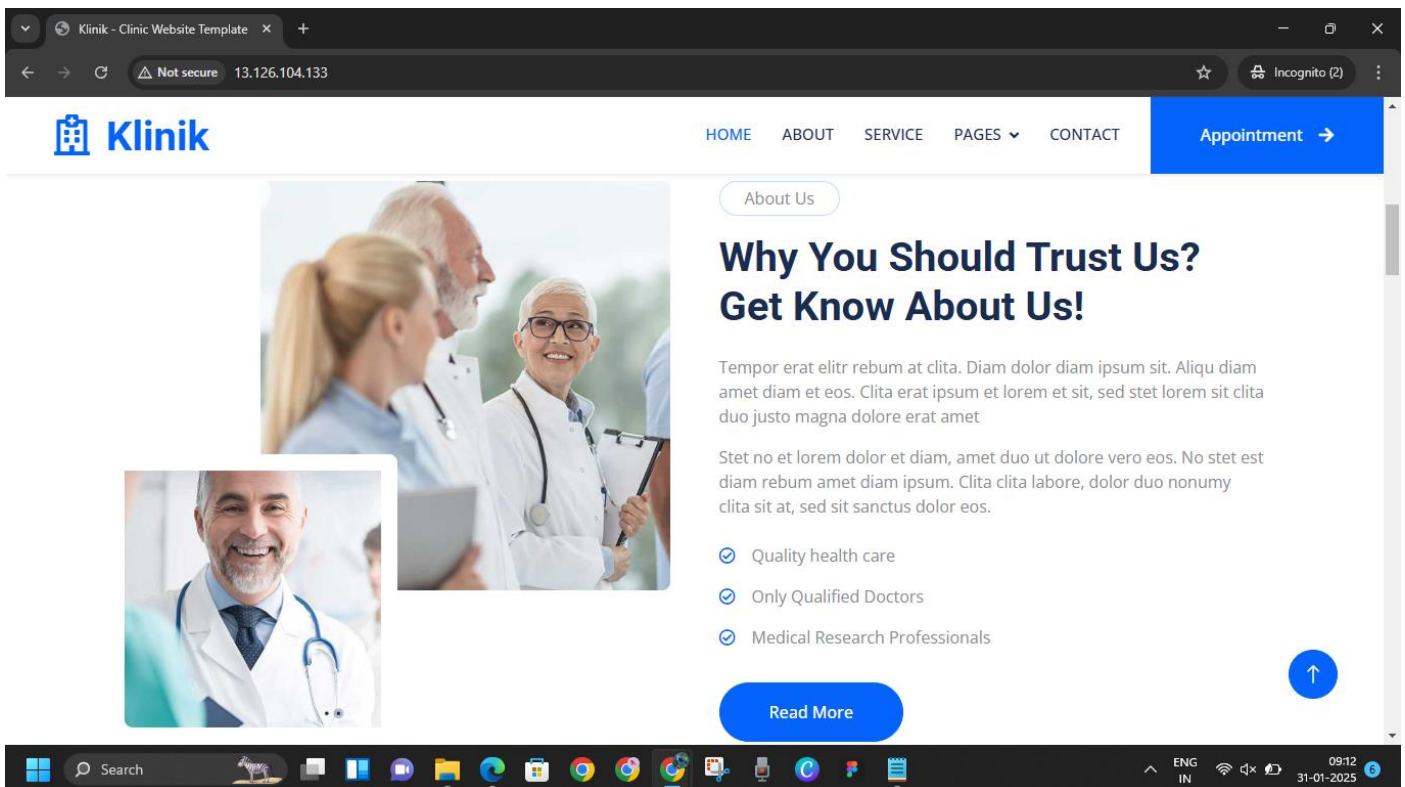
```
Last login: Fri Jan 31 03:17:24 2025 from 13.233.177.5
[ec2-user@ip-172-31-12-158 ~]$ systemctl status httpd
• httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
   Active: active (running) since Fri 2025-01-31 03:34:00 UTC; 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-01ffdfef3b04b3dd5 (PIYUSHASUPE)  
PublicIPs: 13.126.104.133 PrivateIPs: 172.31.12.158

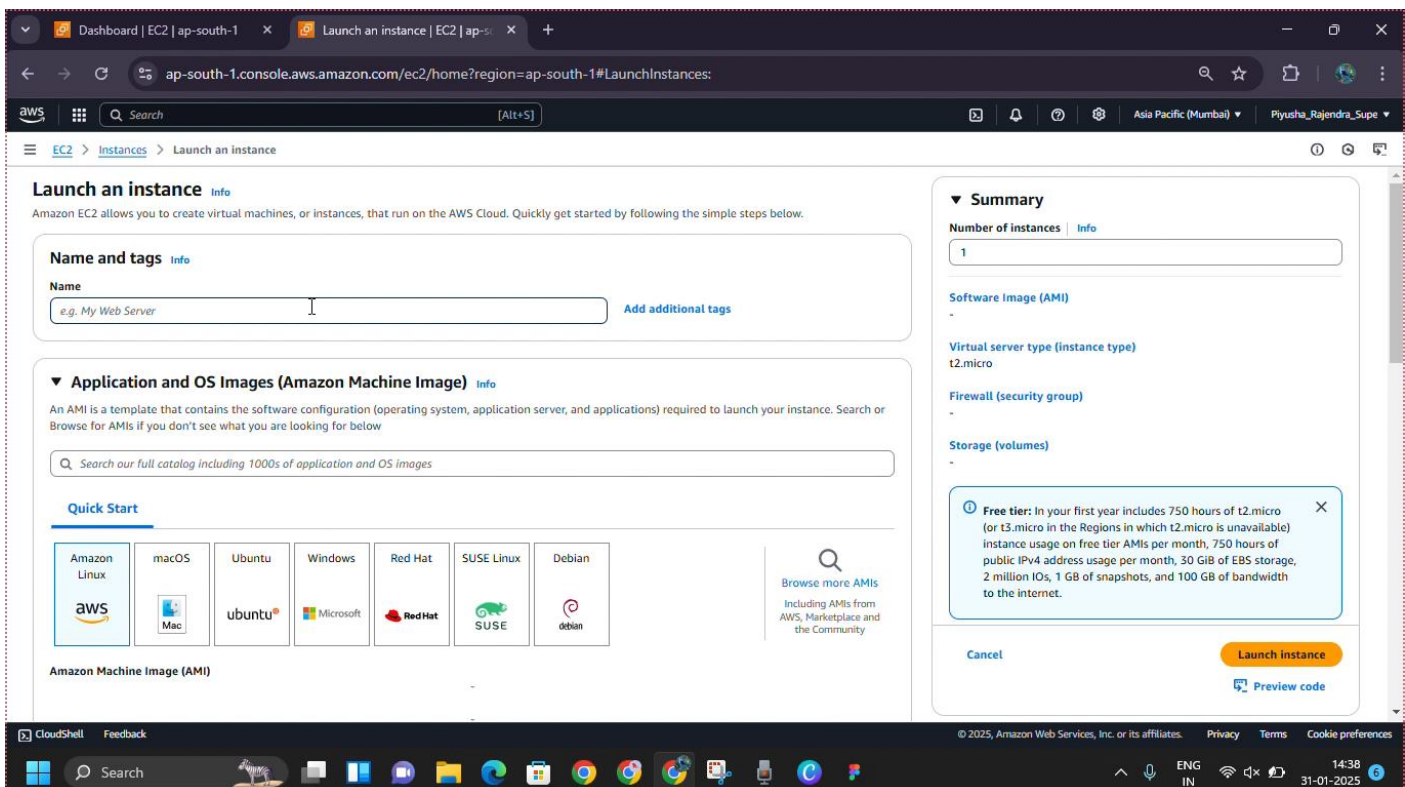


[14] Now only copy the IP address of the instances public IP and access your website

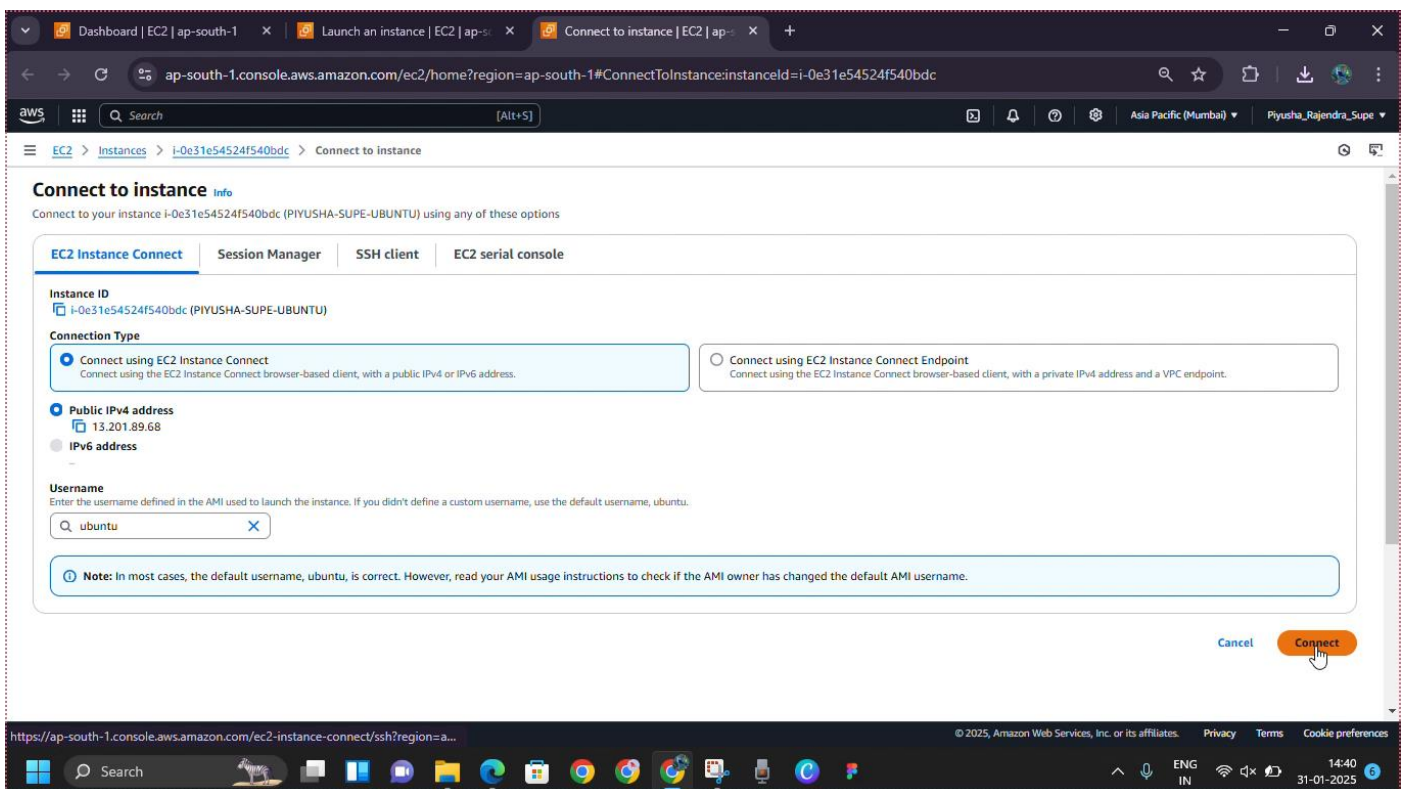
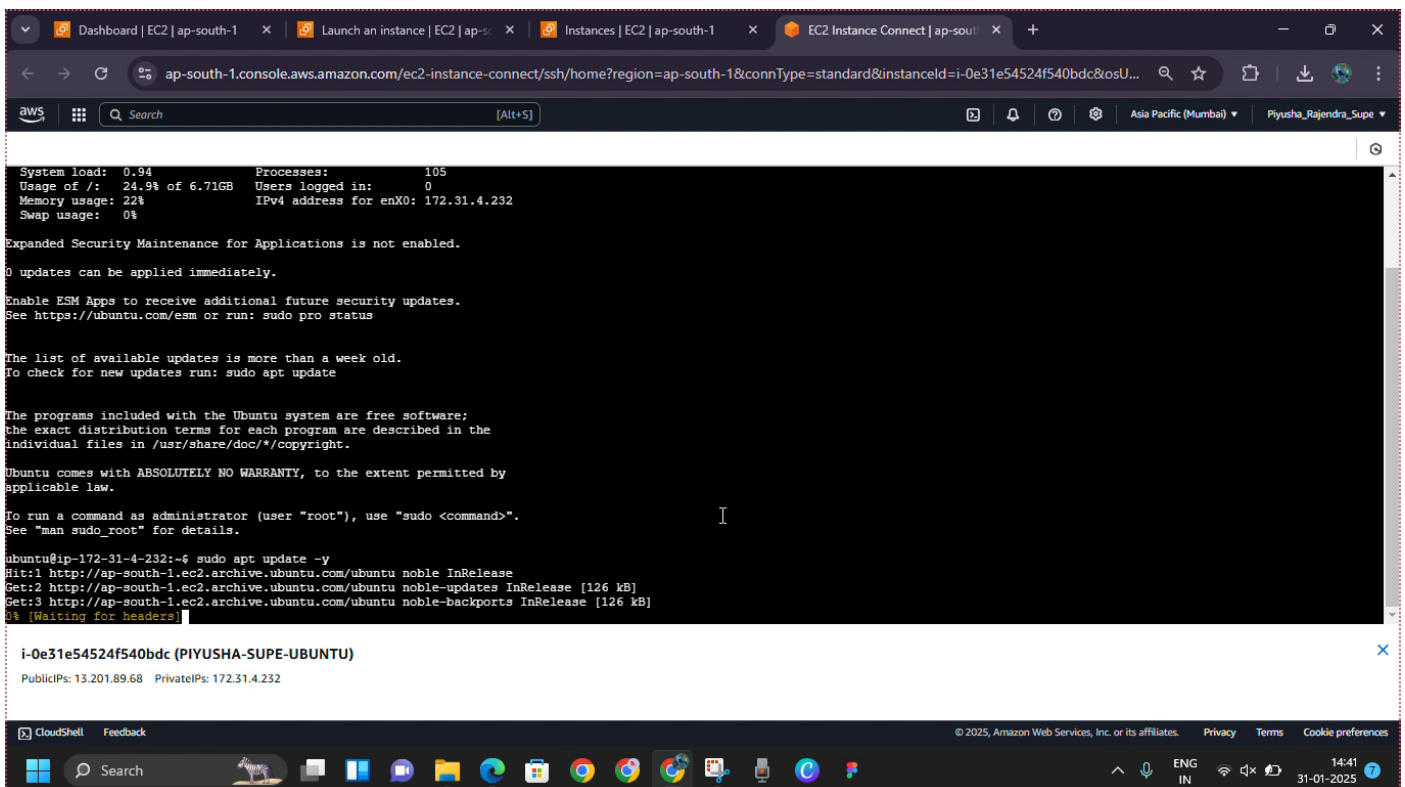


## METHOD 2: USING UBUNTU FOR LAUNCHING APACHE SERVER

[1] Launch an instance first



## [2] Connect to your instance

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



## [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 B]
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 libapr1t64 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 libapr1t64 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64 liblua5.4-0 ssl-cert
0 upgraded, 11 newly installed, 0 to remove and 65 not upgraded.
Need to get 11.4 MB of archives.
After this operation, 45.5 MB of additional disk space will be used.
Do you want to continue? [Y/n]

```

i-Oe31e54524f540bdc (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 (2.12.0-4build2) ...
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-Oe31e54524f540bdc (PIYUSHA-SUPE-UBUNTU)

PublicIPs: 13.201.89.68 PrivateIPs: 172.31.4.232

## [6] Check status of your server

```

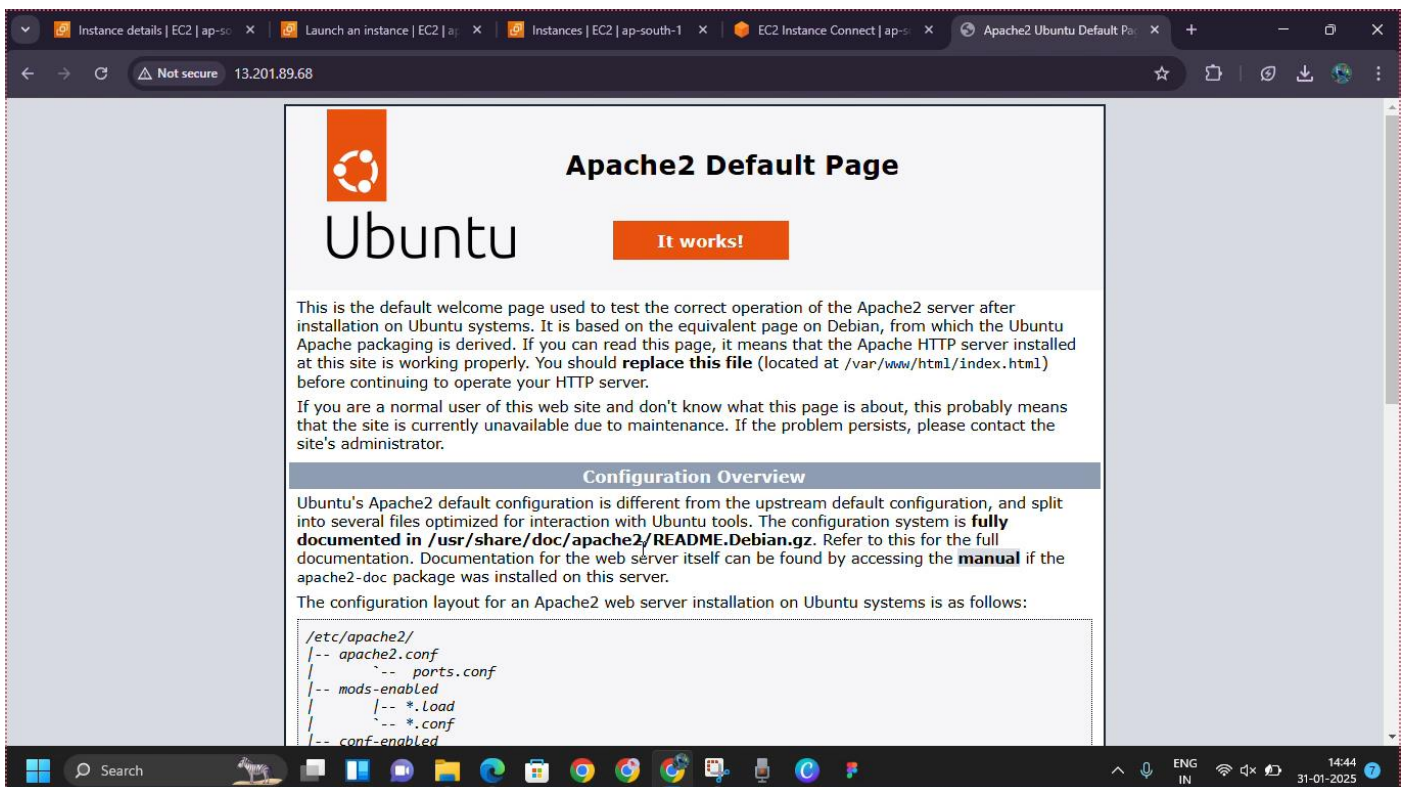
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-4-232:~$ sudo systemctl start apache2
ubuntu@ip-172-31-4-232:~$ sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable apache2
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: https://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 webserver of httpd and apache2 with a website