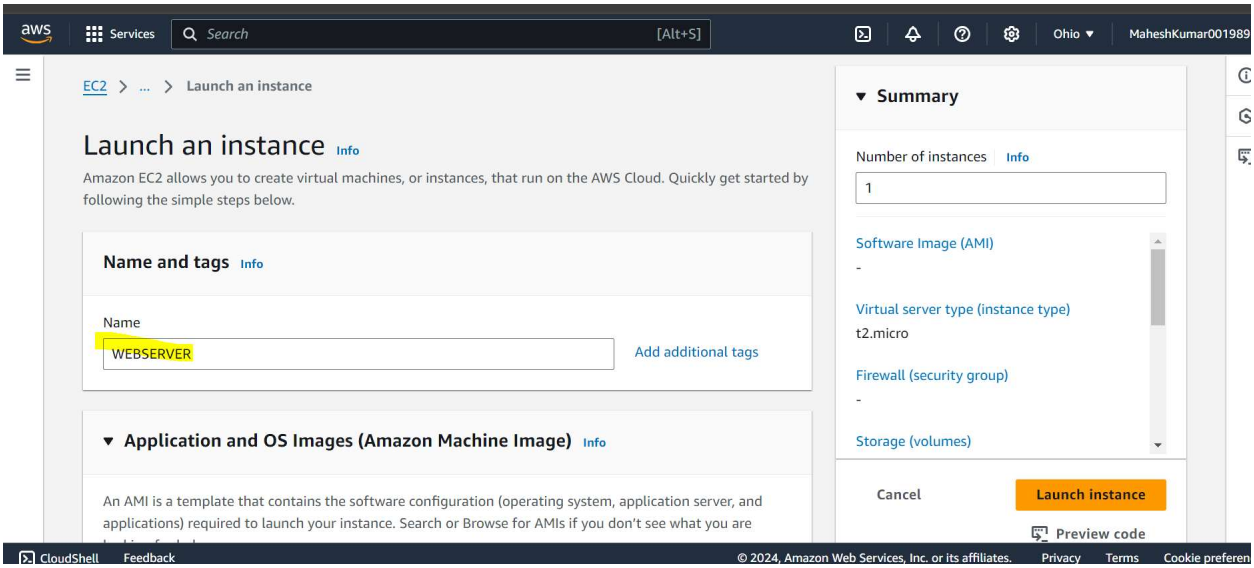
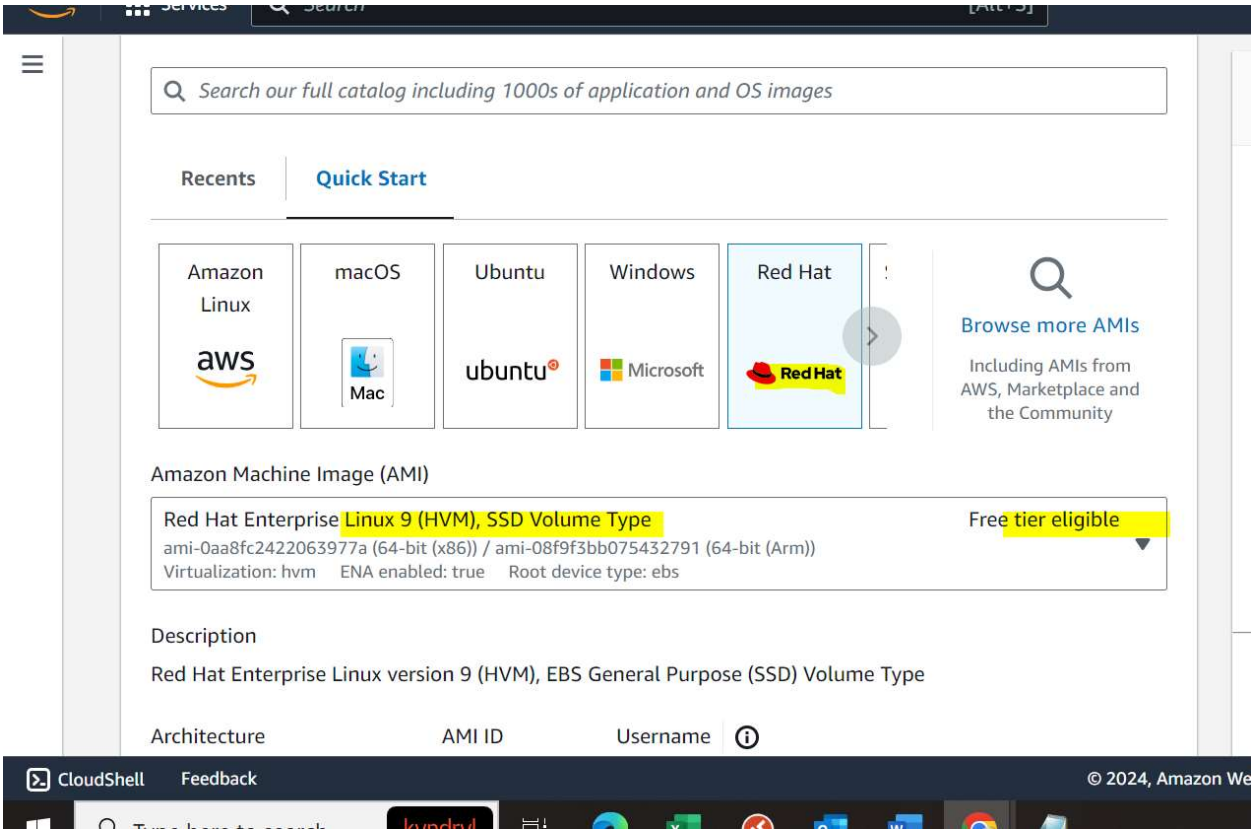
Launch EC2 Server

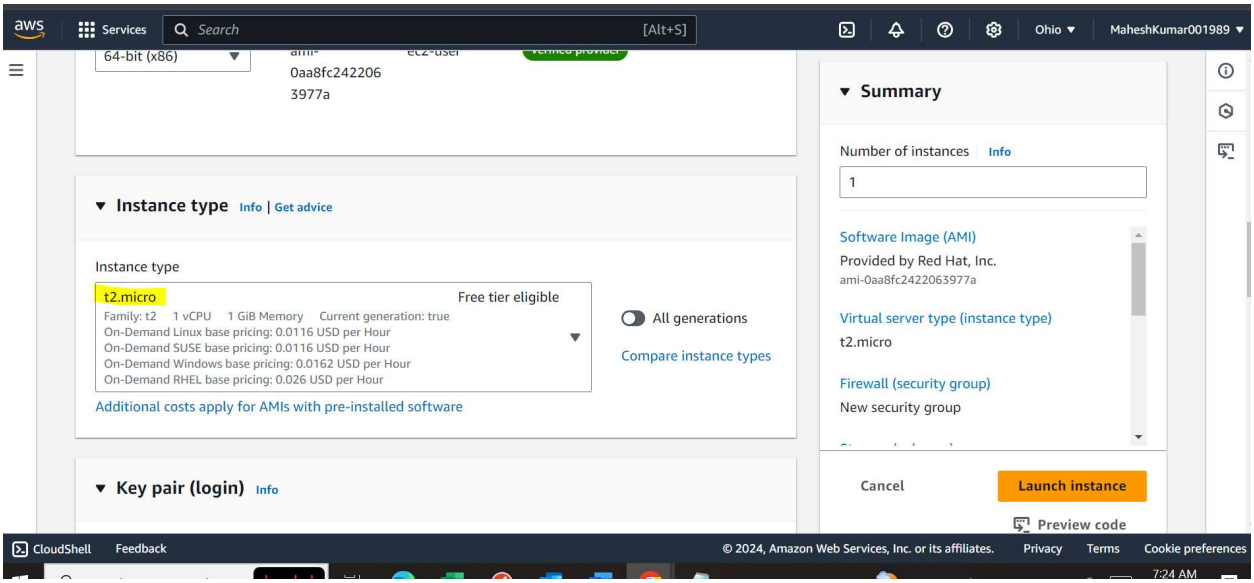
Name: WEBSERVER



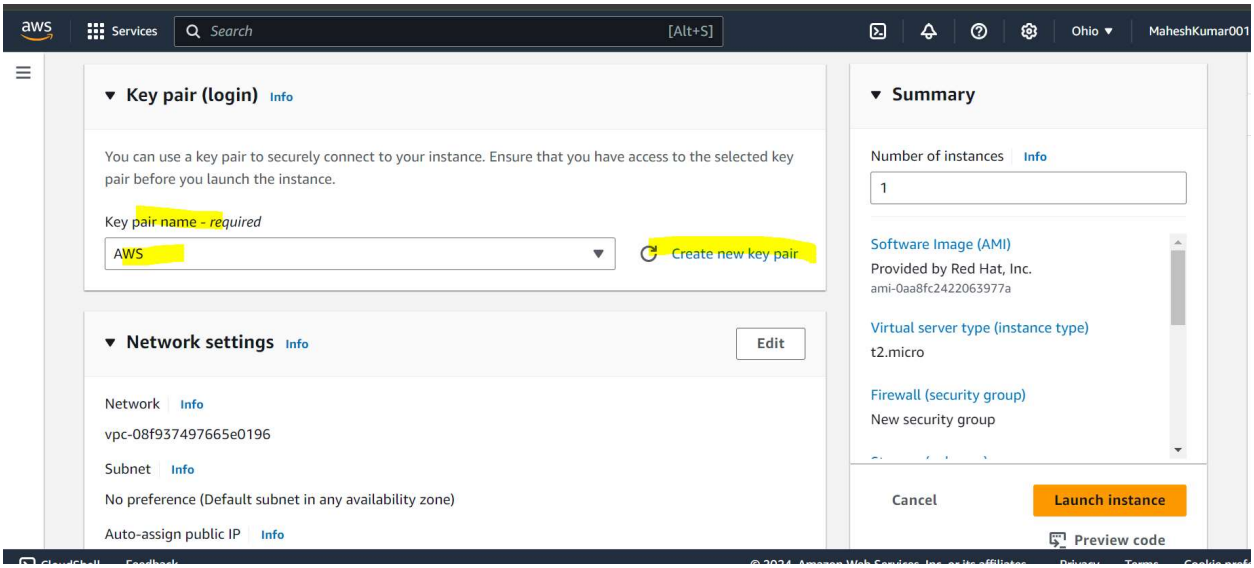
AMI: Red Hat Enterprise



Instance type: t2.micro



Keypair: AWS



Network settings:

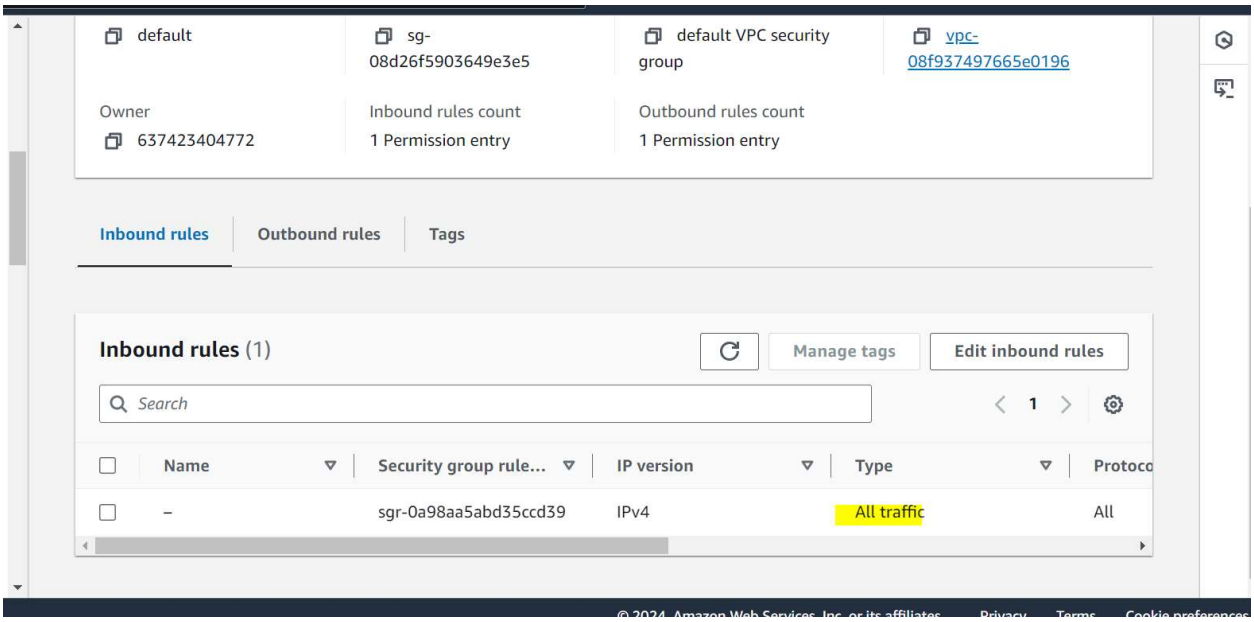
VPC: Default

Subnet: no preference

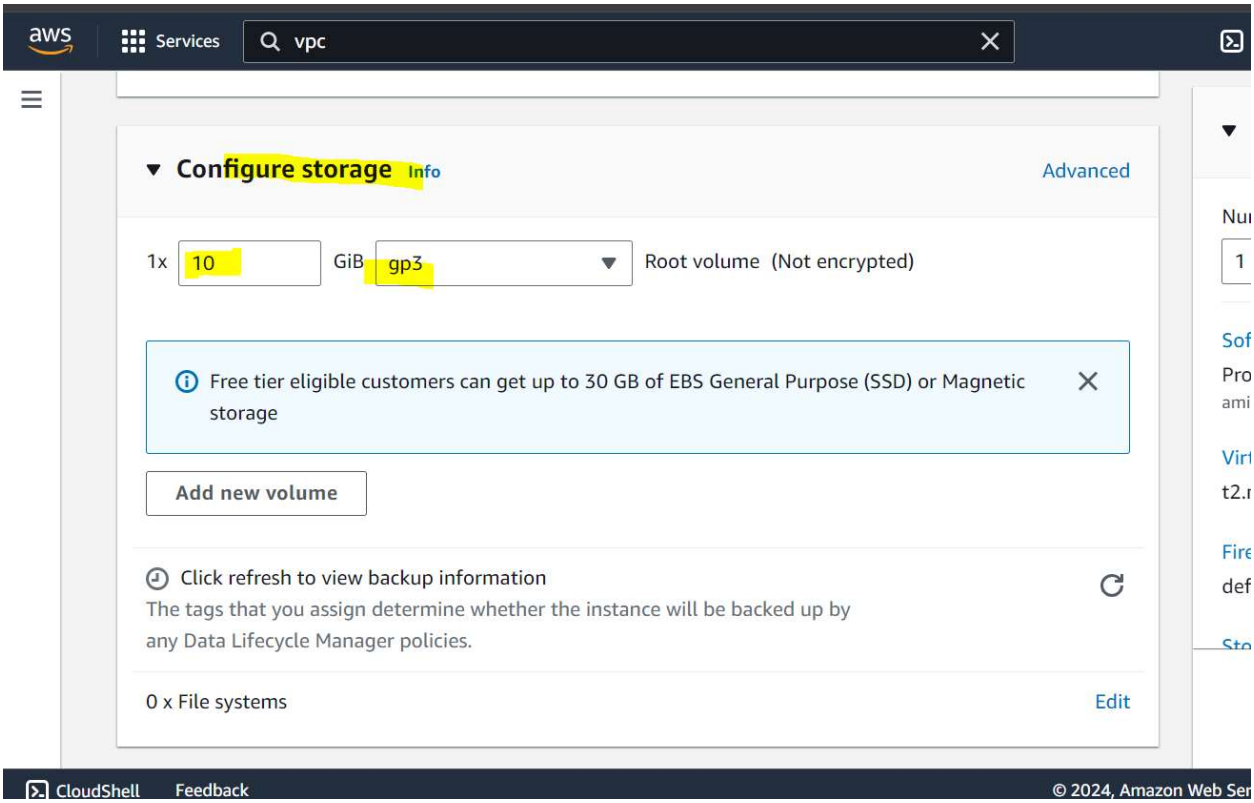
Auto assign public ip: enable

Security group: Default Security group

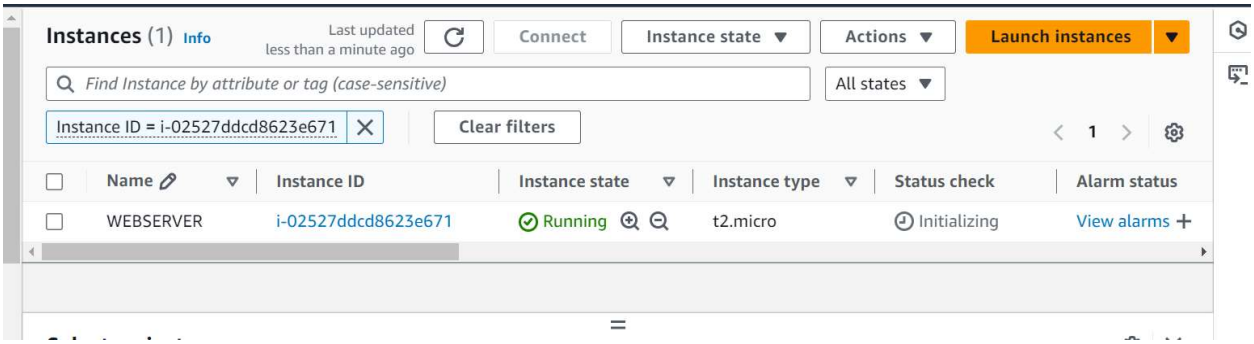
Allowed all traffic



Configure storage: upto 30 gb is free



EC2 Launch successfully

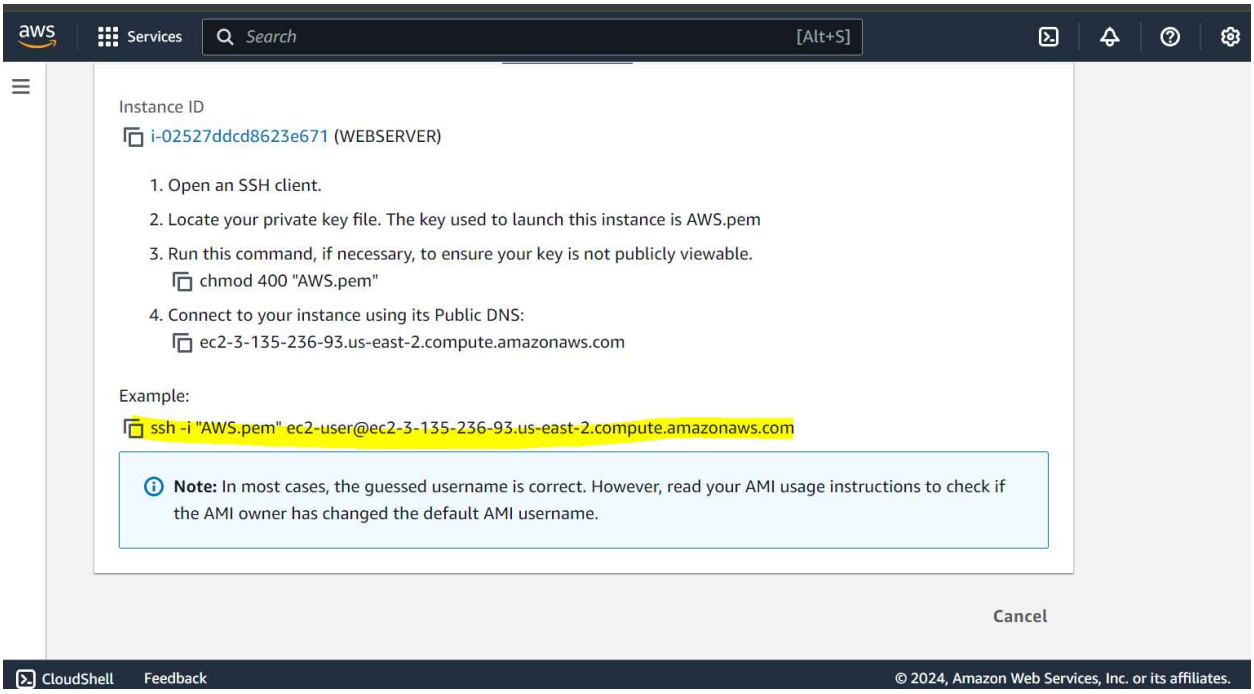


Connect to EC2 Server

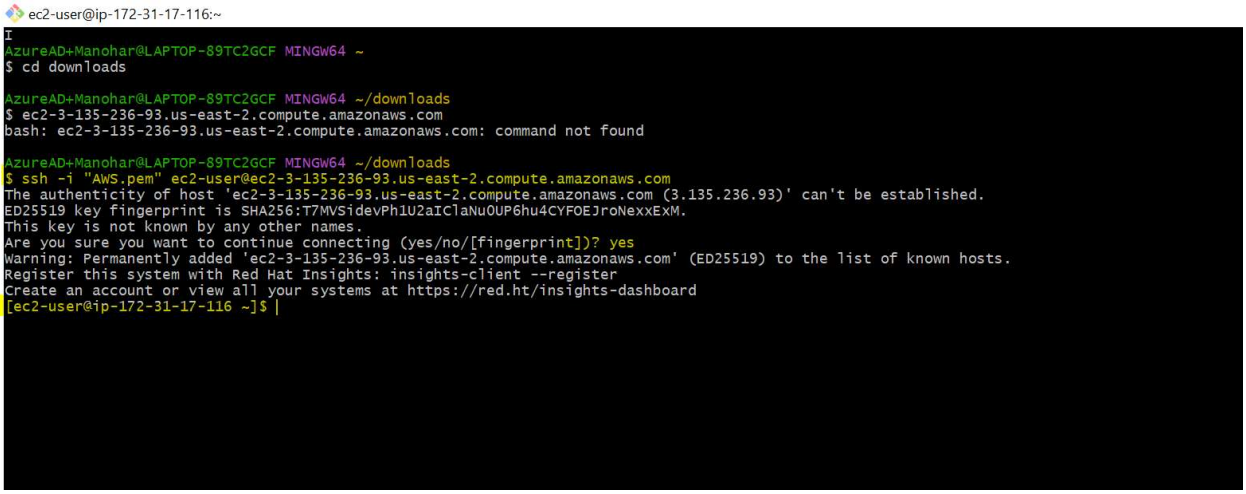
I will be using gitbash to connect to my EC2 Server

Navigate to the download folder where I have saved the pem key.

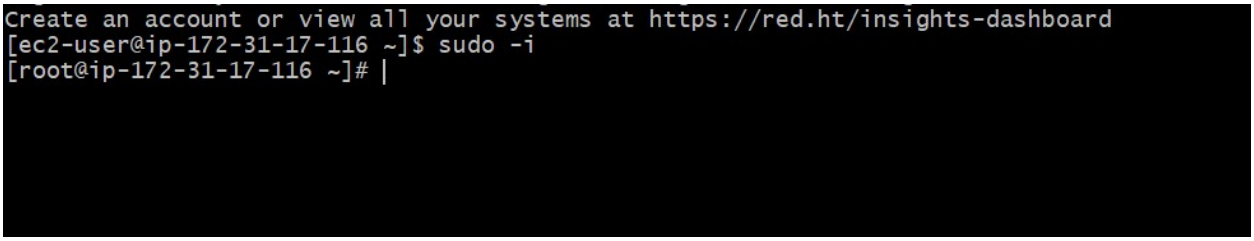
Copy the below command: ssh -i "AWS.pem" ec2-user@ec2-3-135-236-93.us-east-2.compute.amazonaws.com



Successfully connected to EC2 Server



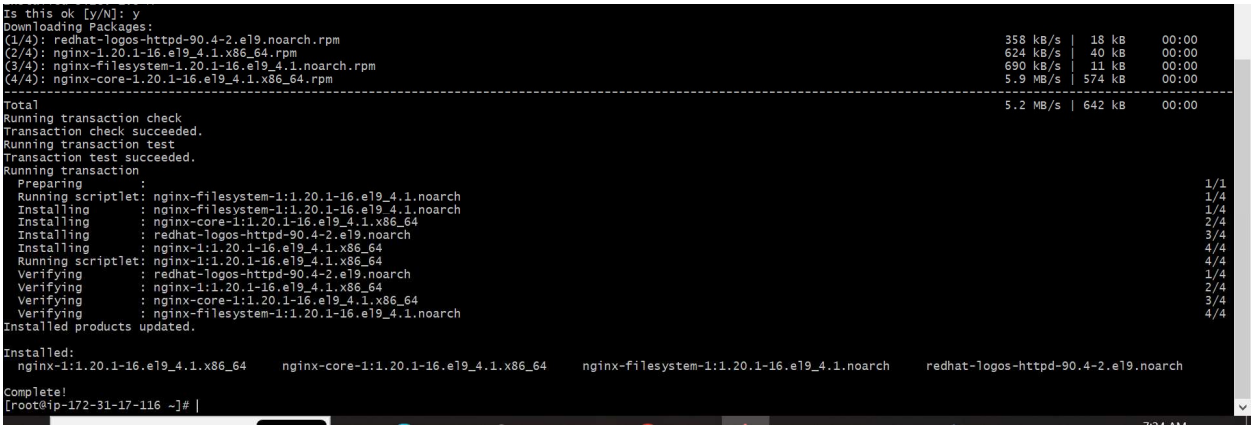
Root user



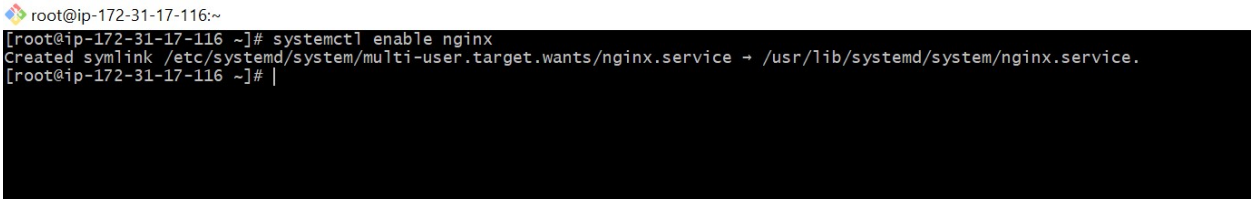
```
[root@ip-172-31-17-116 ~]# whoami
root
[root@ip-172-31-17-116 ~]# date
Thu Oct 17 02:02:49 AM UTC 2024
[root@ip-172-31-17-116 ~]# cal
     October 2024
Su Mo Tu We Th Fr Sa
        1  2  3  4  5
 6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31

[root@ip-172-31-17-116 ~]#
```

Install nginx web server

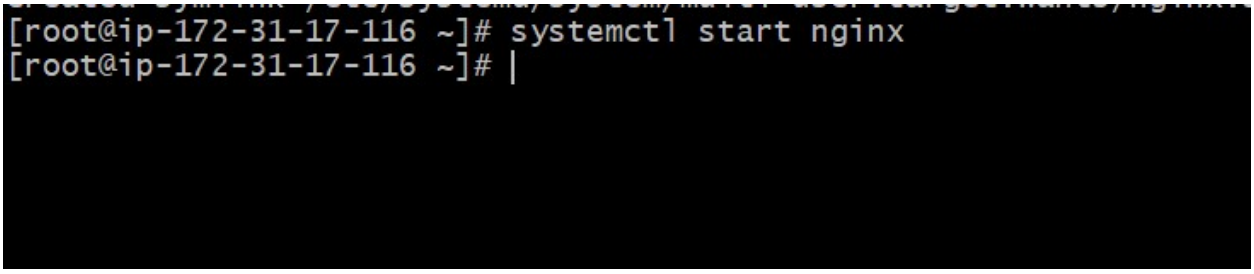
```
[root@ip-172-31-17-116 ~]# yum install nginx
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use "rhc" or "subscription-manager" to register.

Red Hat Enterprise Linux 9 for x86_64 - AppStream from RHUI (RPMs)      9.5 MB/s |  42 MB     00:04
Red Hat Enterprise Linux 9 for x86_64 - BaseOS from RHUI (RPMs)         48 MB/s |  33 MB     00:00
Red Hat Enterprise Linux 9 Client Configuration                         34 kB/s | 3.0 kB     00:00
Dependencies resolved.
================================================================================
 Package                 Architecture   Version                 Repository    Size
================================================================================
Installing:
 nginx                   x86_64         1:1.20.1-16.el9_4.1     rhel-9-appstream-rhui-rpms   40 k
Installing dependencies:
 nginx-core              x86_64         1:1.20.1-16.el9_4.1     rhel-9-appstream-rhui-rpms  574 k
 nginx-filesystem        noarch         1:1.20.1-16.el9_4.1     rhel-9-appstream-rhui-rpms   11 k
 redhat-logos-httpd      noarch         90.4-2.el9              rhel-9-appstream-rhui-rpms   18 k

Transaction Summary
================================================================================
Install  4 Packages

Total download size: 642 k
Installed size: 1.8 M
Is this ok [y/N]:
```



Enable nginx: systemctl enable nginx



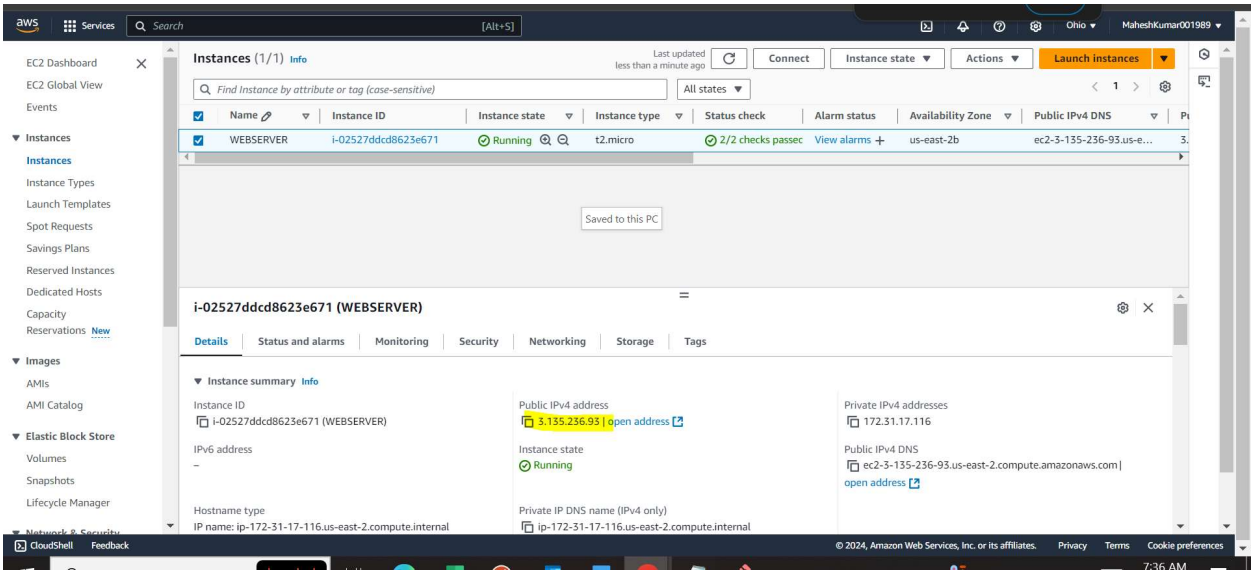
Start nginx: systemctl start nginx



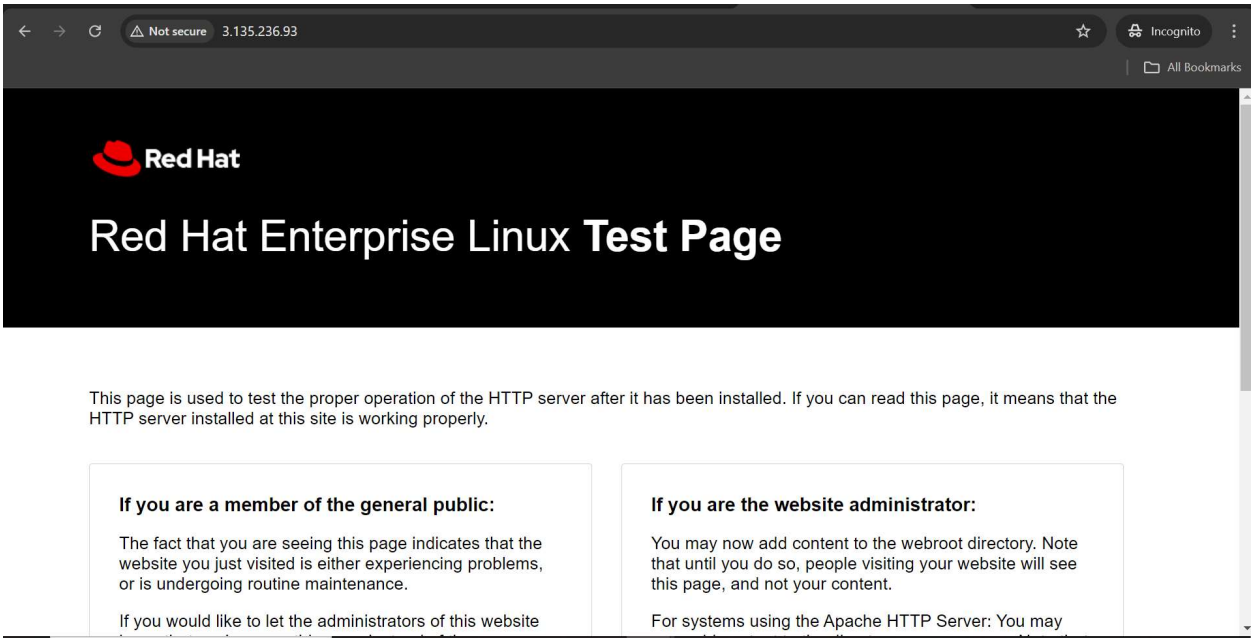
Nginx status: systemctl status nginx

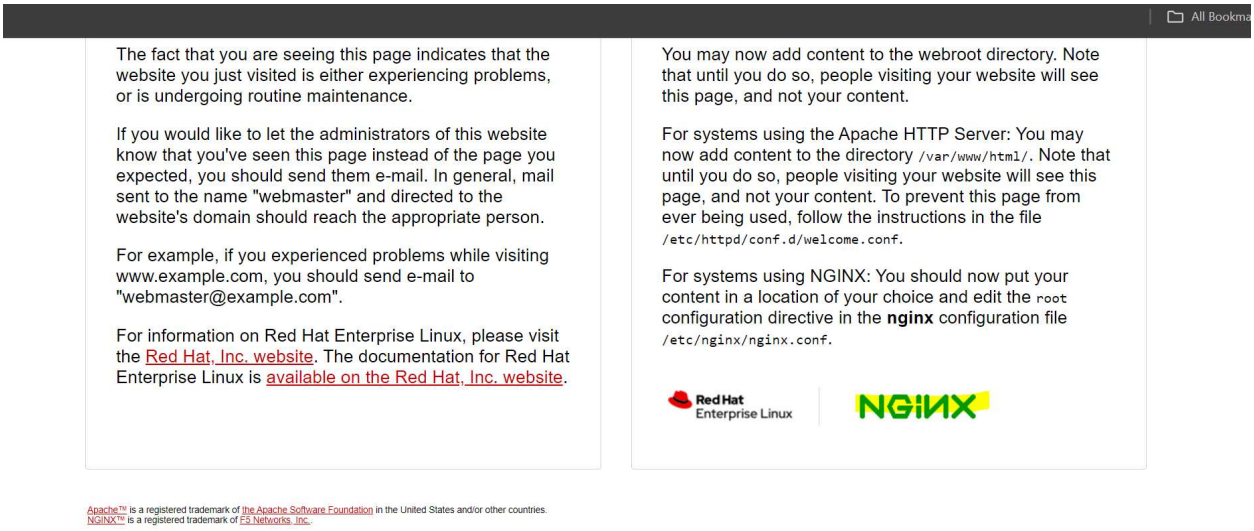
```
[root@ip-172-31-17-116 ~]# systemctl status nginx
● nginx.service - The nginx HTTP and reverse proxy server
     Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: disabled)
     Active: active (running) since Thu 2024-10-17 02:05:21 UTC; 27s ago
    Process: 14316 ExecStartPre=/usr/bin/rm -f /run/nginx.pid (code=exited, status=0/SUCCESS)
    Process: 14317 ExecStartPre=/usr/sbin/nginx -t (code=exited, status=0/SUCCESS)
    Process: 14318 ExecStart=/usr/sbin/nginx (code=exited, status=0/SUCCESS)
   Main PID: 14319 (nginx)
      Tasks: 2 (limit: 4400)
     Memory: 2.0M
        CPU: 16ms
     CGroup: /system.slice/nginx.service
             ├─14319 "nginx: master process /usr/sbin/nginx"
             └─14320 "nginx: worker process"

Oct 17 02:05:21 ip-172-31-17-116.us-east-2.compute.internal systemd[1]: Starting The nginx HTTP and reverse proxy server...
Oct 17 02:05:21 ip-172-31-17-116.us-east-2.compute.internal nginx[14317]: nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
Oct 17 02:05:21 ip-172-31-17-116.us-east-2.compute.internal nginx[14317]: nginx: configuration file /etc/nginx/nginx.conf test is successful
Oct 17 02:05:21 ip-172-31-17-116.us-east-2.compute.internal systemd[1]: Started The nginx HTTP and reverse proxy server.
[root@ip-172-31-17-116 ~]#
```

Copy the public ip followed by port 80 and paste on the browser:



Successfully access the default page of nginx





Stop nginx: systemctl stop nginx

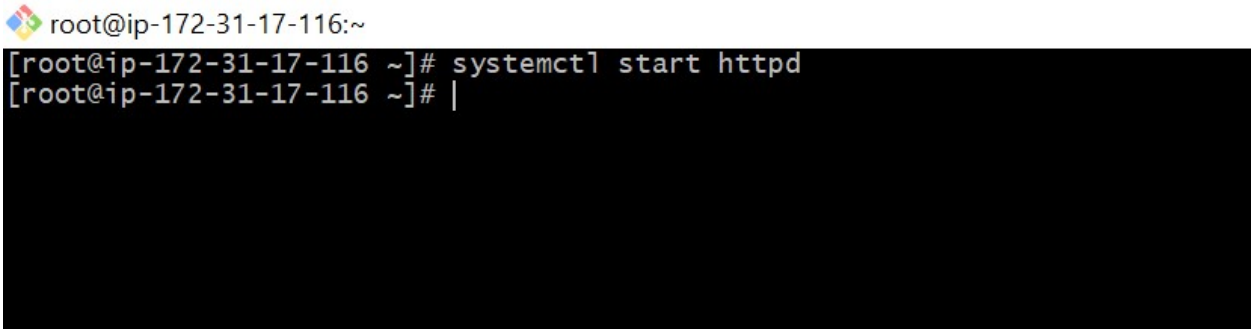
```
[root@ip-172-31-17-116 ~]# systemctl stop nginx
[root@ip-172-31-17-116 ~]#
```

Install apache: yum install httpd

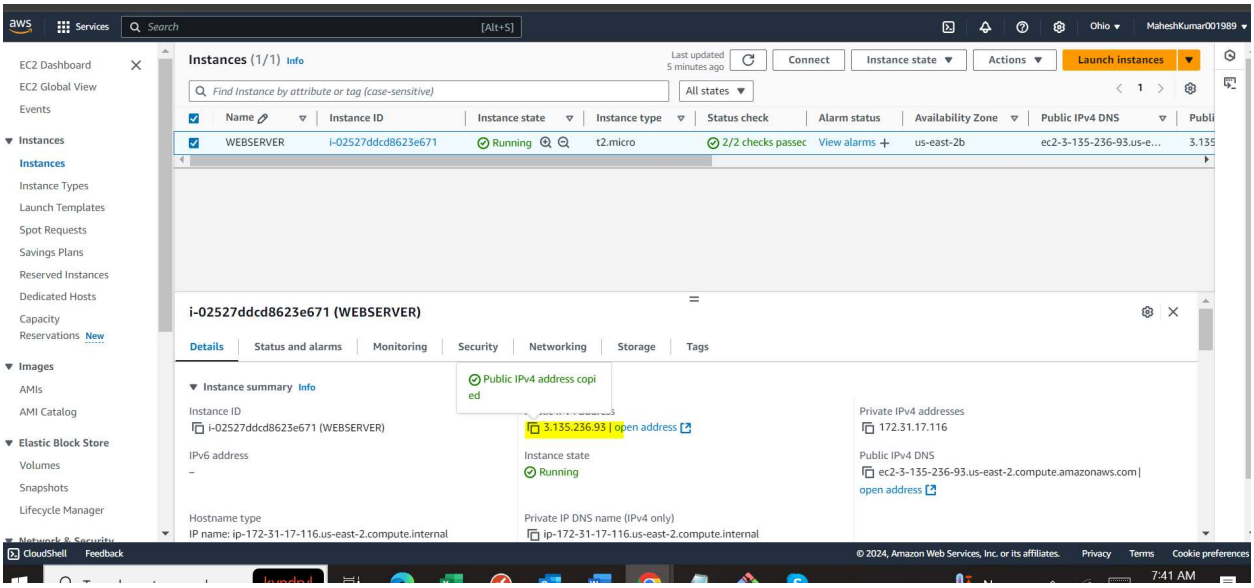
```
[root@ip-172-31-17-116 ~]# yum install httpd
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use "rhc" or "subscription-manager" to register.

Red Hat Enterprise Linux 9 for x86_64 - AppStream from RHUI (RPMs)                91 kB/s | 4.5 kB     00:00
Red Hat Enterprise Linux 9 for x86_64 - BaseOS from RHUI (RPMs)                   87 kB/s | 4.1 kB     00:00
Red Hat Enterprise Linux 9 Client Configuration                                   35 kB/s | 1.5 kB     00:00
Dependencies resolved.
================================================================================================================================================
 Package                          Architecture             Version                          Repository                                    Size
================================================================================================================================================
Installing:
 httpd                            x86_64                   2.4.57-11.el9_4.1                rhel-9-appstream-rhui-rpms                    51 k
Installing dependencies:
 apr                              x86_64                   1.7.0-12.el9_3                   rhel-9-appstream-rhui-rpms                   126 k
 apr-util                         x86_64                   1.6.1-23.el9                     rhel-9-appstream-rhui-rpms                    97 k
 apr-util-bdb                     x86_64                   1.6.1-23.el9                     rhel-9-appstream-rhui-rpms                    14 k
 httpd-core                       x86_64                   2.4.57-11.el9_4.1                rhel-9-appstream-rhui-rpms                   1.5 M
 httpd-filesystem                 noarch                   2.4.57-11.el9_4.1                rhel-9-appstream-rhui-rpms                    14 k
 httpd-tools                      x86_64                   2.4.57-11.el9_4.1                rhel-9-appstream-rhui-rpms                    86 k
 mailcap                          noarch                   2.1.49-5.el9                     rhel-9-baseos-rhui-rpms                       35 k
Installing weak dependencies:
 apr-util-openssl                 x86_64                   1.6.1-23.el9                     rhel-9-appstream-rhui-rpms                    17 k
 mod_http2                        x86_64                   2.0.26-2.el9_4                   rhel-9-appstream-rhui-rpms                   167 k
 mod_lua                          x86_64                   2.4.57-11.el9_4.1                rhel-9-appstream-rhui-rpms                    60 k

Transaction Summary
================================================================================================================================================
Install  11 Packages

Total download size: 2.2 M
Installed size: 6.1 M
Is this ok [y/N]:
```

```
root@ip-172-31-17-116:~
(4/11): apr-1.7.0-12.el9_3.x86_64.rpm                                             8.3 MB/s | 126 kB     00:00
(5/11): mod_http2-2.0.26-2.el9_4.x86_64.rpm                                       5.3 MB/s | 167 kB     00:00
(6/11): httpd-2.4.57-11.el9_4.1.x86_64.rpm                                        1.3 MB/s |  51 kB     00:00
(7/11): httpd-core-2.4.57-11.el9_4.1.x86_64.rpm                                    18 MB/s | 1.5 MB     00:00
(8/11): httpd-filesystem-2.4.57-11.el9_4.1.noarch.rpm                             207 kB/s |  14 kB     00:00
(9/11): httpd-tools-2.4.57-11.el9_4.1.x86_64.rpm                                  1.4 MB/s |  86 kB     00:00
(10/11): mod_lua-2.4.57-11.el9_4.1.x86_64.rpm                                     3.5 MB/s |  60 kB     00:00
(11/11): mailcap-2.1.49-5.el9.noarch.rpm                                          1.4 MB/s |  35 kB     00:00
------------------------------------------------------------------------------------------------------------------------------------------------
Total                                                                              10 MB/s | 2.2 MB     00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :                                                                                                                      1/1
  Installing       : apr-1.7.0-12.el9_3.x86_64                                                                                            1/11
  Installing       : apr-util-bdb-1.6.1-23.el9.x86_64                                                                                     2/11
  Installing       : apr-util-openssl-1.6.1-23.el9.x86_64                                                                                 3/11
  Installing       : apr-util-1.6.1-23.el9.x86_64                                                                                         4/11
  Installing       : httpd-tools-2.4.57-11.el9_4.1.x86_64                                                                                 5/11
  Installing       : mailcap-2.1.49-5.el9.noarch                                                                                          6/11
  Running scriptlet: httpd-filesystem-2.4.57-11.el9_4.1.noarch                                                                            7/11
  Installing       : httpd-filesystem-2.4.57-11.el9_4.1.noarch                                                                            7/11
  Installing       : httpd-core-2.4.57-11.el9_4.1.x86_64                                                                                  8/11
  Installing       : mod_lua-2.4.57-11.el9_4.1.x86_64                                                                                     9/11
  Installing       : mod_http2-2.0.26-2.el9_4.x86_64                                                                                     10/11
  Installing       : httpd-2.4.57-11.el9_4.1.x86_64                                                                                      11/11
  Running scriptlet: httpd-2.4.57-11.el9_4.1.x86_64                                                                                      11/11
  Verifying        : apr-util-1.6.1-23.el9.x86_64                                                                                         1/11
  Verifying        : apr-util-bdb-1.6.1-23.el9.x86_64                                                                                     2/11
  Verifying        : apr-util-openssl-1.6.1-23.el9.x86_64                                                                                 3/11
  Verifying        : apr-1.7.0-12.el9_3.x86_64                                                                                            4/11
  Verifying        : mod_http2-2.0.26-2.el9_4.x86_64                                                                                      5/11
  Verifying        : httpd-2.4.57-11.el9_4.1.x86_64                                                                                       6/11
  Verifying        : httpd-core-2.4.57-11.el9_4.1.x86_64                                                                                  7/11
  Verifying        : httpd-filesystem-2.4.57-11.el9_4.1.noarch                                                                            8/11
  Verifying        : httpd-tools-2.4.57-11.el9_4.1.x86_64                                                                                 9/11
  Verifying        : mod_lua-2.4.57-11.el9_4.1.x86_64                                                                                    10/11
  Verifying        : mailcap-2.1.49-5.el9.noarch                                                                                         11/11
Installed products updated.

Installed:
  apr-1.7.0-12.el9_3.x86_64              apr-util-1.6.1-23.el9.x86_64           apr-util-bdb-1.6.1-23.el9.x86_64          apr-util-openssl-1.6.1-23.el9.x86_64
  httpd-2.4.57-11.el9_4.1.x86_64         httpd-core-2.4.57-11.el9_4.1.x86_64    httpd-filesystem-2.4.57-11.el9_4.1.noarch  httpd-tools-2.4.57-11.el9_4.1.x86_64
  mailcap-2.1.49-5.el9.noarch            mod_http2-2.0.26-2.el9_4.x86_64        mod_lua-2.4.57-11.el9_4.1.x86_64

Complete!
[root@ip-172-31-17-116 ~]#
```

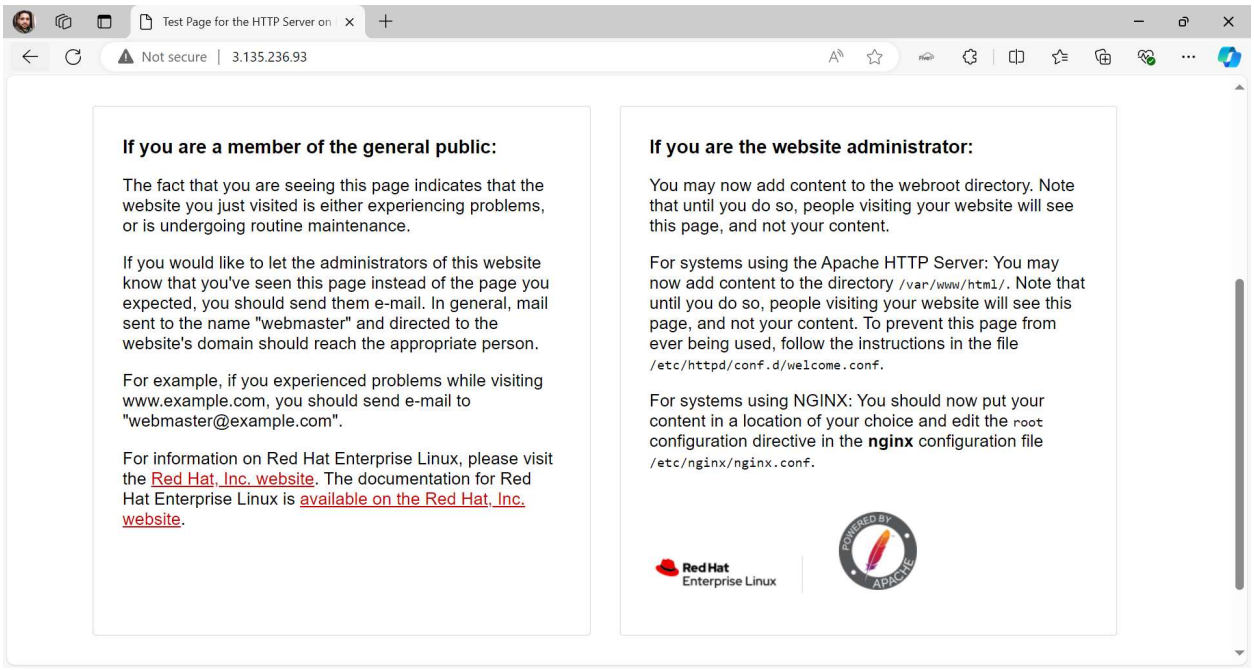
Start apache: systemctl start httpd



Copy the public ip of the ec2 & followed by the port 80



Successfully Able to access the default page of apache


Test Page for the HTTP Server on
Not secure | 3.135.236.93
If you are a member of the general public:
The fact that you are seeing this page indicates that the website you just visited is either experiencing problems, or is undergoing routine maintenance.
If you would like to let the administrators of this website know that you've seen this page instead of the page you expected, you should send them e-mail. In general, mail sent to the name "webmaster" and directed to the website's domain should reach the appropriate person.
For example, if you experienced problems while visiting www.example.com, you should send e-mail to "webmaster@example.com".
For information on Red Hat Enterprise Linux, please visit the Red Hat, Inc. website. The documentation for Red Hat Enterprise Linux is available on the Red Hat, Inc. website.
If you are the website administrator:
You may now add content to the webroot directory. Note that until you do so, people visiting your website will see this page, and not your content.
For systems using the Apache HTTP Server: You may now add content to the directory /var/www/html/. Note that until you do so, people visiting your website will see this page, and not your content. To prevent this page from ever being used, follow the instructions in the file /etc/httpd/conf.d/welcome.conf.
For systems using NGINX: You should now put your content in a location of your choice and edit the root configuration directive in the nginx configuration file /etc/nginx/nginx.conf.
Red Hat Enterprise Linux
POWERED BY APACHE

Finished