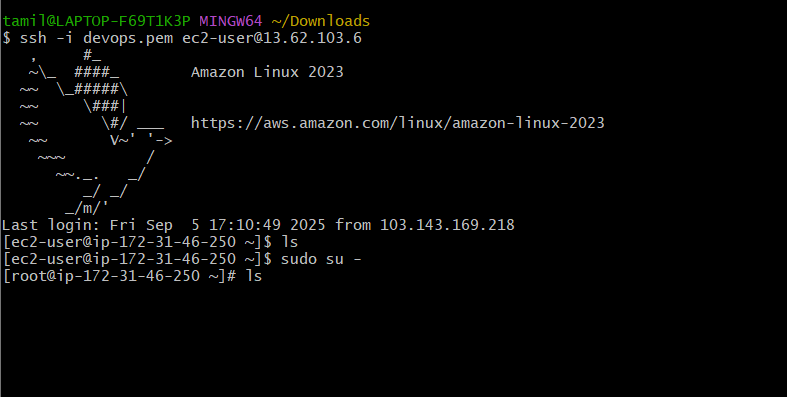
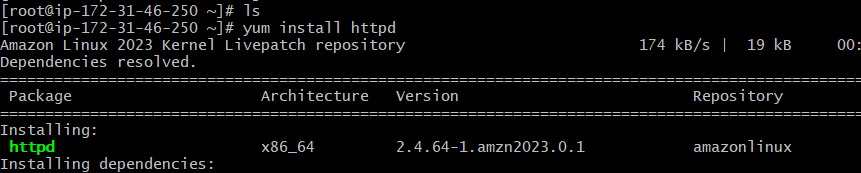
step1: switch to user to user



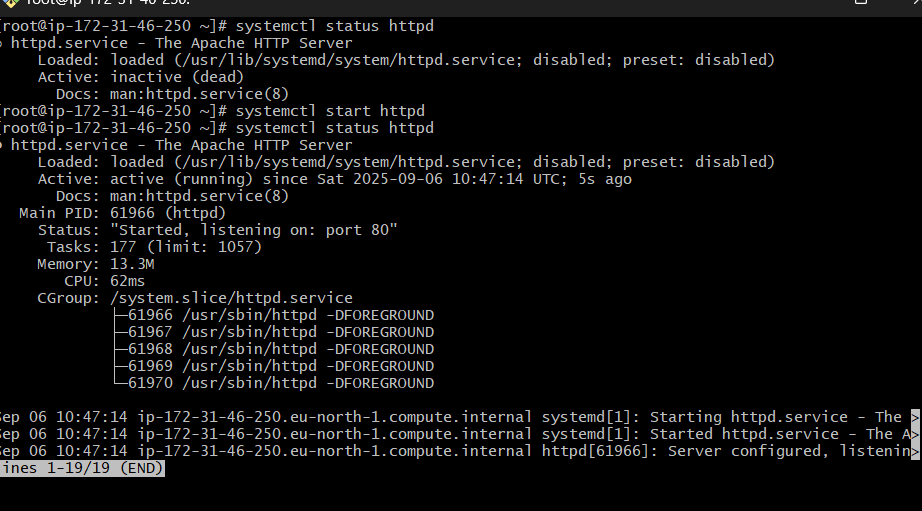
Install httpd

* Y Installing the Apache HTTP Server (httpd) package using Yum.

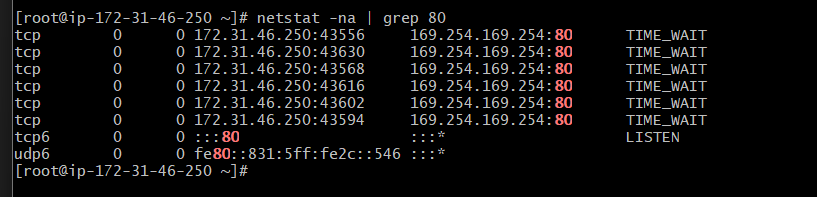


Step 2: we should check the httpd status => systemctl status httpd

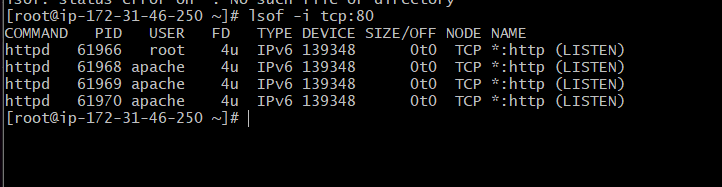
If the system is not activated, we should activate it => systemctl start httpd =>systemctl status httpd



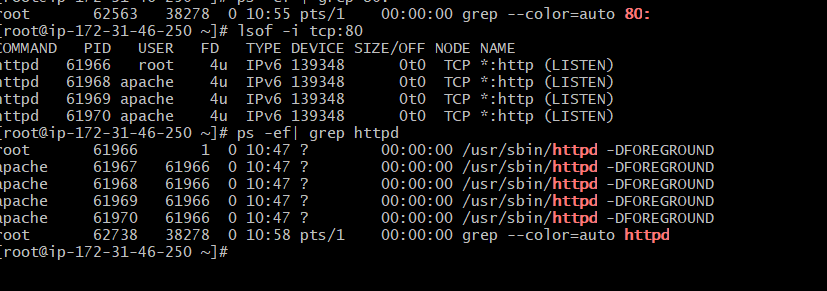
To know the services running in 80 port



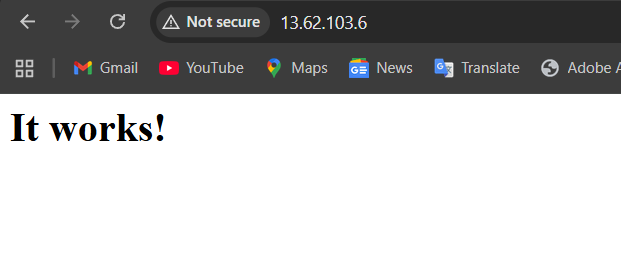
Lsof -I tcp:80



ps -ef | grep 80 : check specific   
service running.→copy ipv4 adress

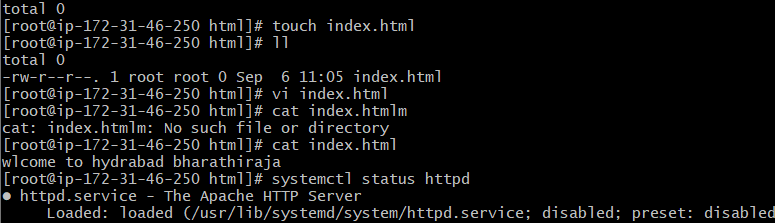
  
i.e   
16.171.5.124 from aws instance   
→go to web browser and paste

ip address 80 is the port where the service



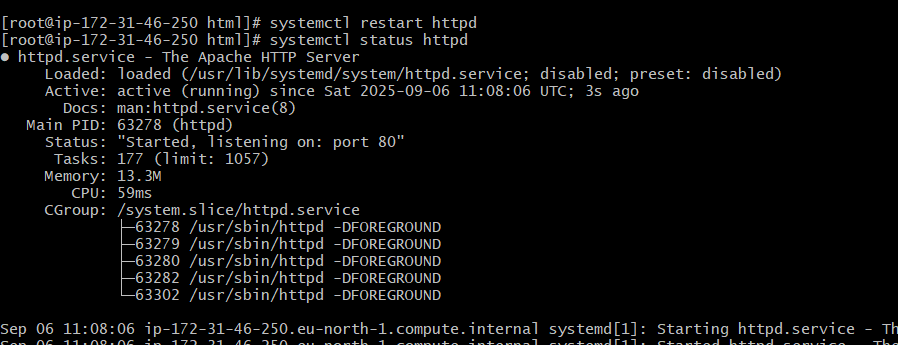
How change the change the webserver output give your own static web

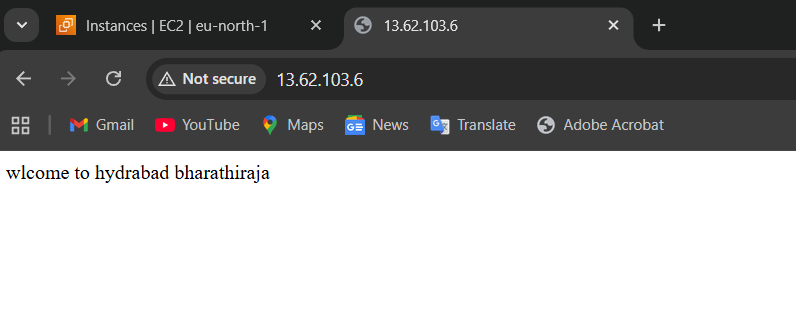
→Vi “filename”.html  
→And enter the <h1>”output you want” </h1>  
→Save it by - enter esc then enter- “:wq!” to save and exit the file.  
→Then restart the service- “systemctl restart httpd



Create one file, type like it as you wish

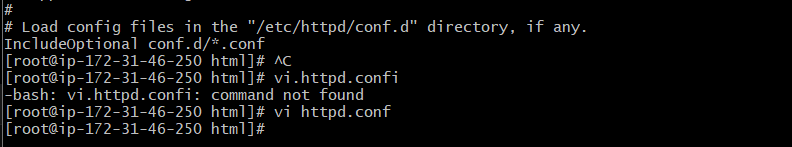
Come to systemctl restart httpd  
systemctl status httpd  
you can its activated





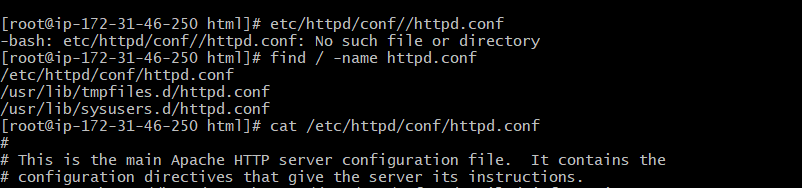
Then i went to this file path after the change

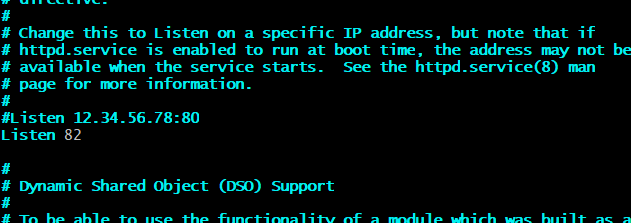
Port number from 80 to 82



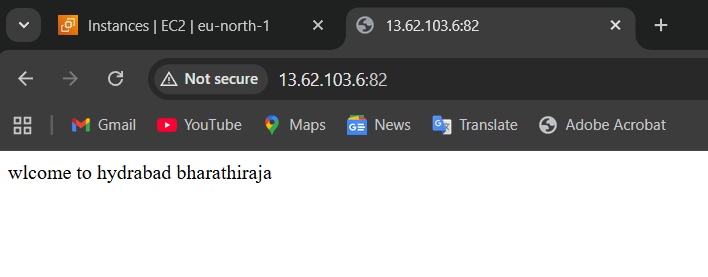
Open vi httpd.conf file

Etc/ httpd/conf/httpd.conf



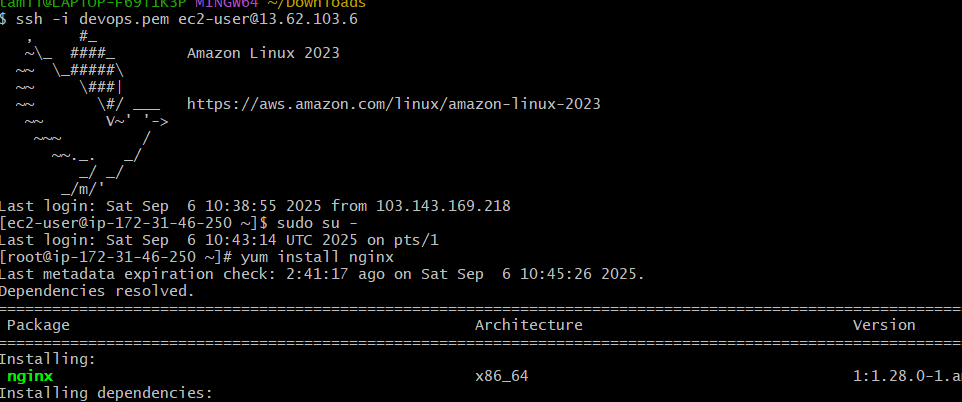


Ip address and (ip:82)

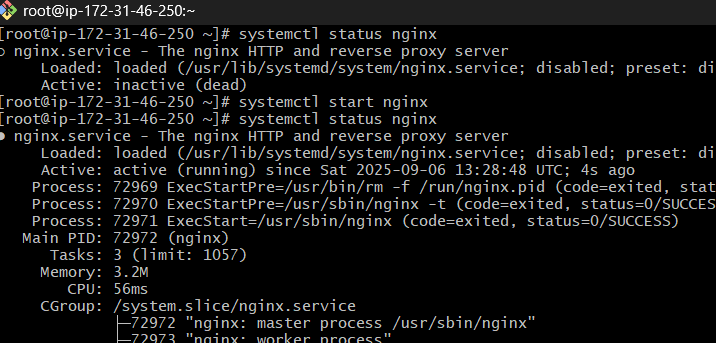


Start to install nginx

I=> yum install nginx

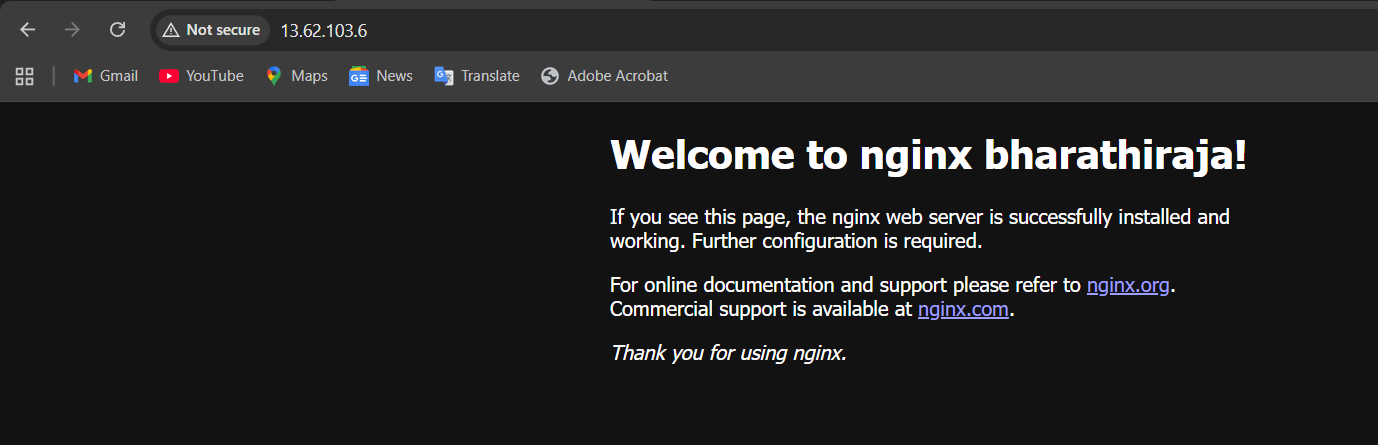


Check the status and start

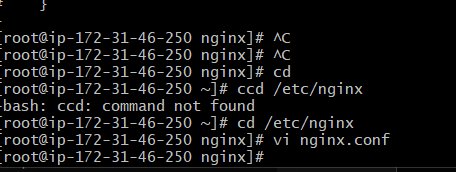


If its active, you can check the web browser's IP address: 80

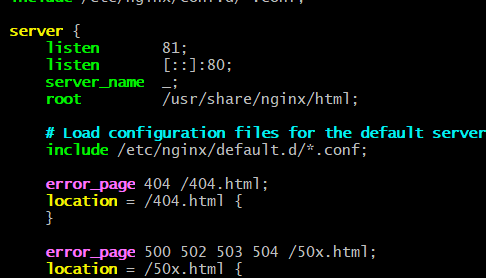
Then it will get this page



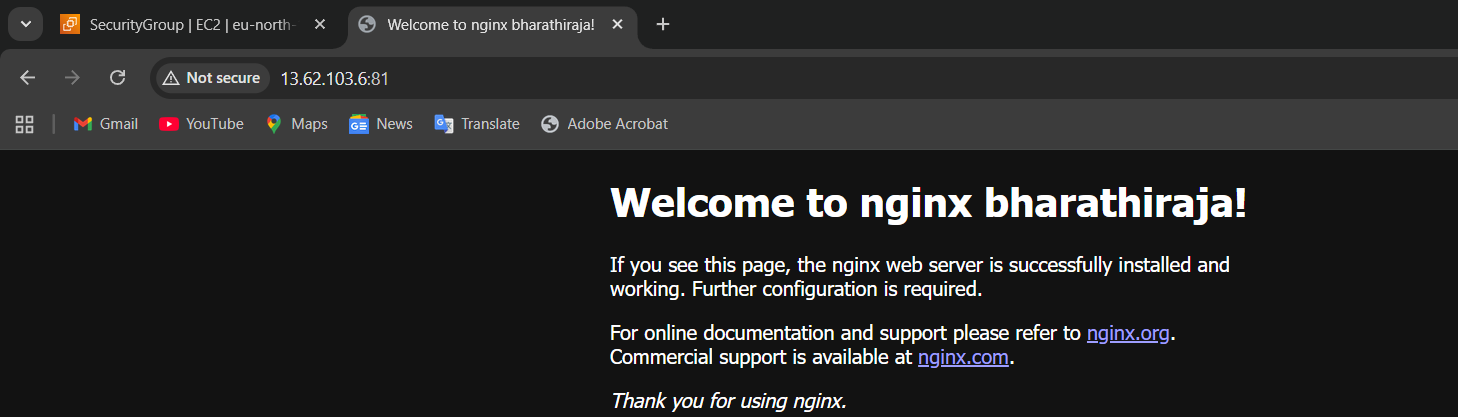
Then, after you can change the prot 80 to 81   
which mean I mentioned there first you should go cd /etc/nginx => create a file vi nginx.conf



Indeed we need to change the port number



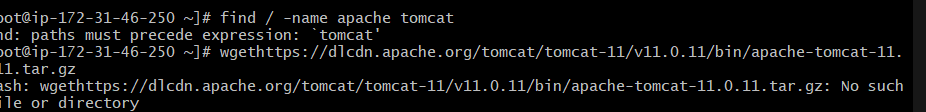
Then you get a page it works



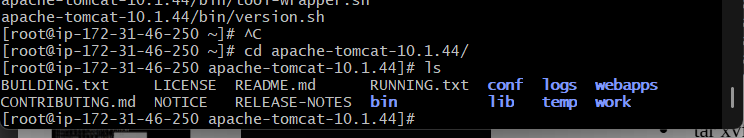
5 ) Apache Tomcat/application server

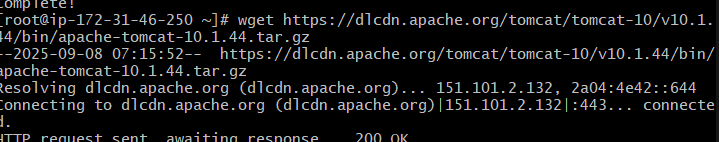
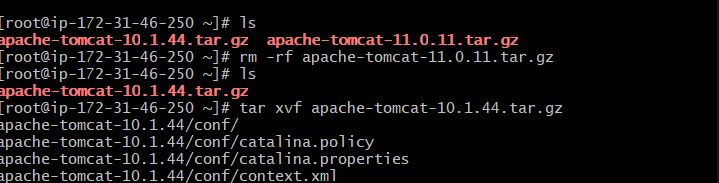
Connect ec2

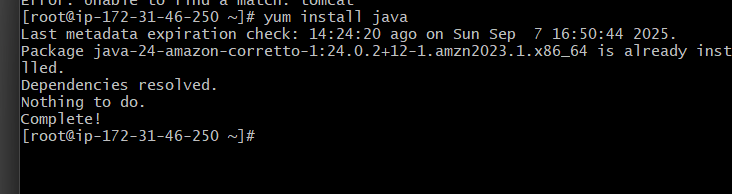
Tomcat install wget (link) from the browser that link, which version we want takes from there



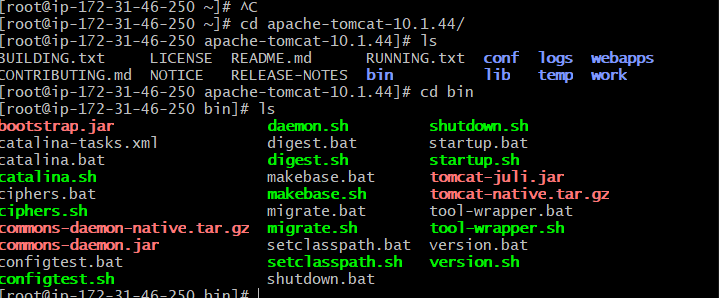
Ten extract the tar file using command tar xvf file name Tomcat apeche



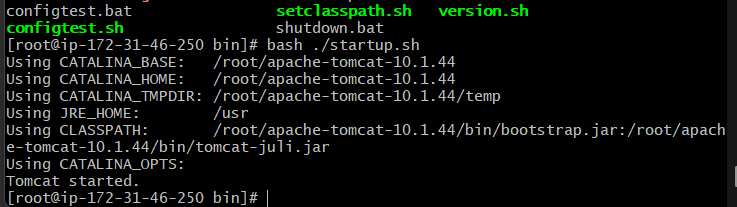


Its needs Java installation because of Java-related applications run the Tomcat application, which is why 

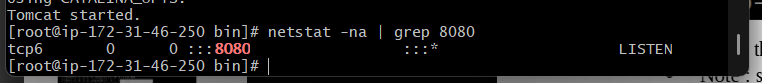
Cd open Apache Tomcat file   
then open bin it will open some file



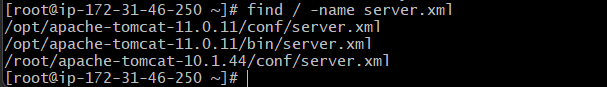
We need start using the command => bash ./startup.sh

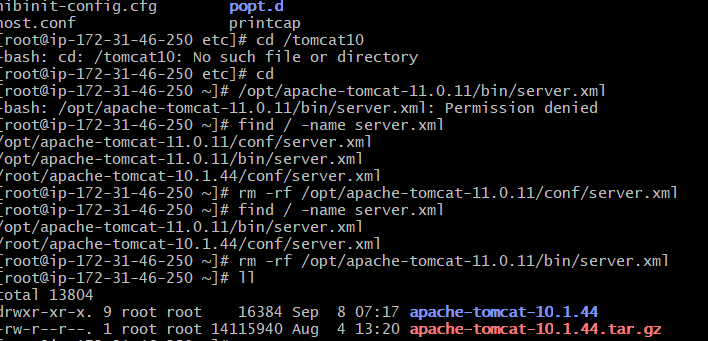


Netstat -na | grep 8080, whether it's connected or not

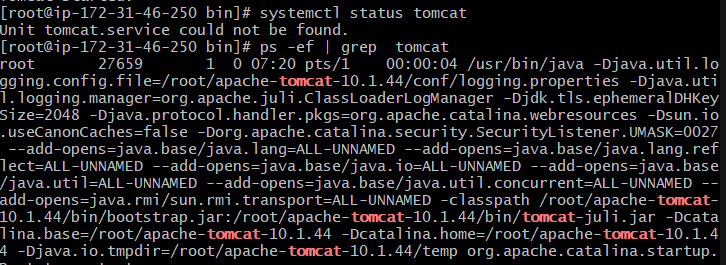
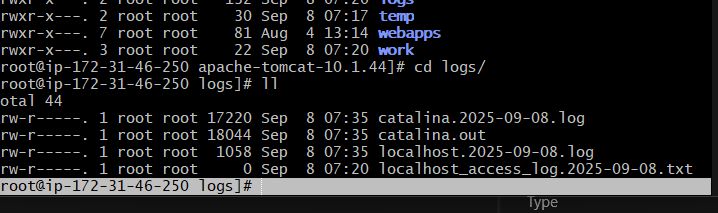


Open the server.xml file and write

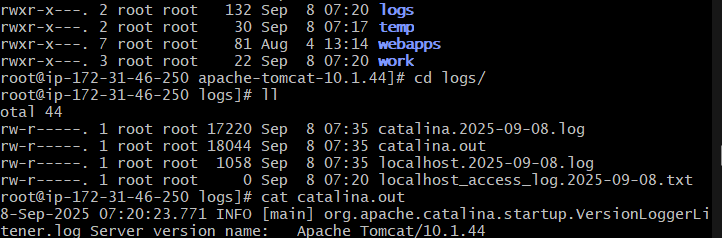
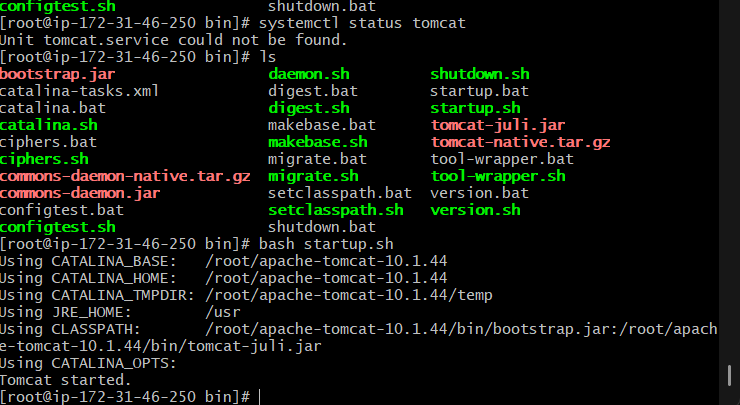




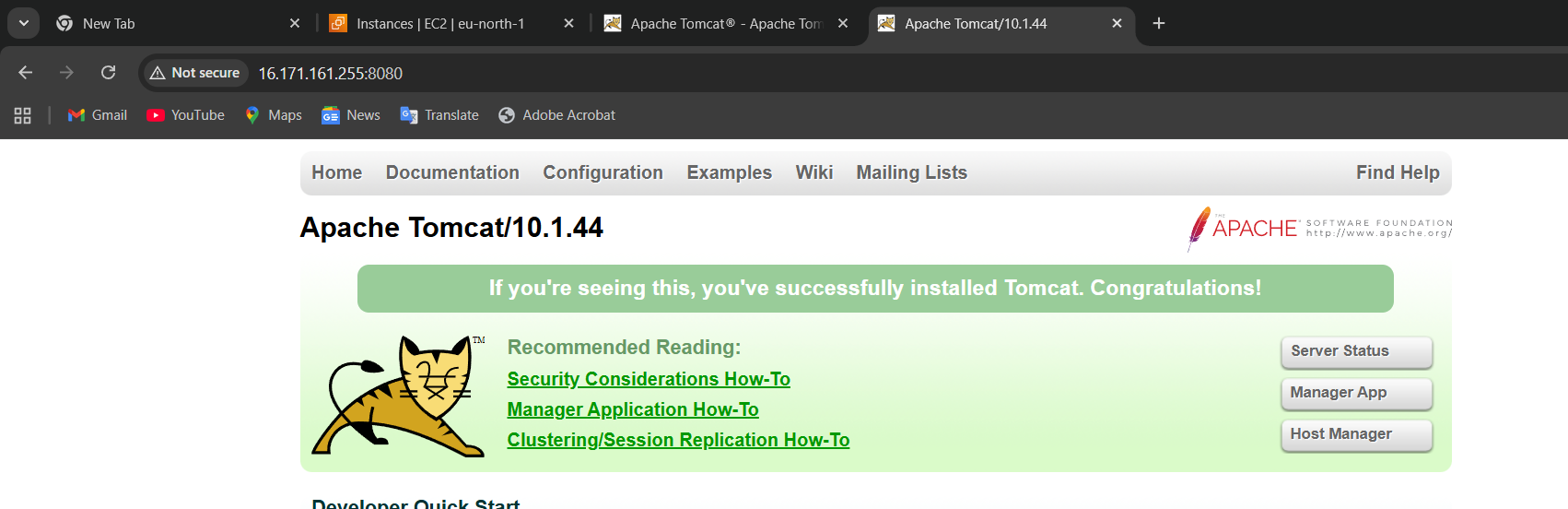
Open logs file open Catalina.out file

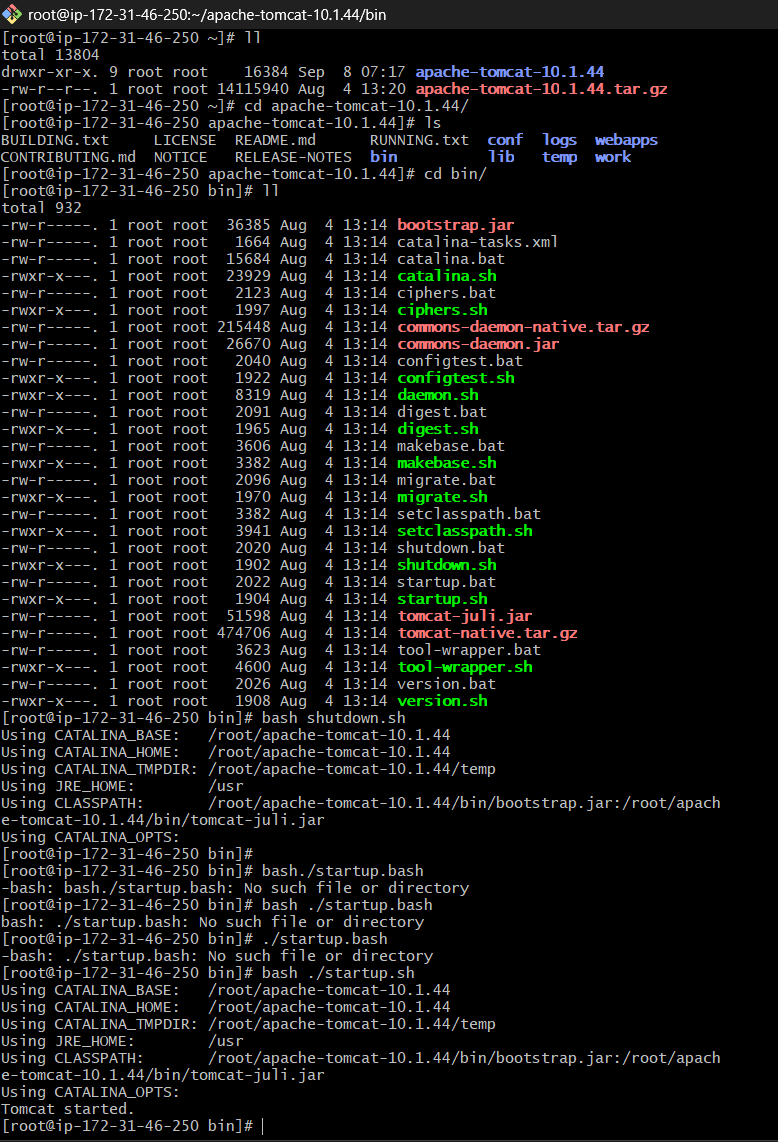


Then start again

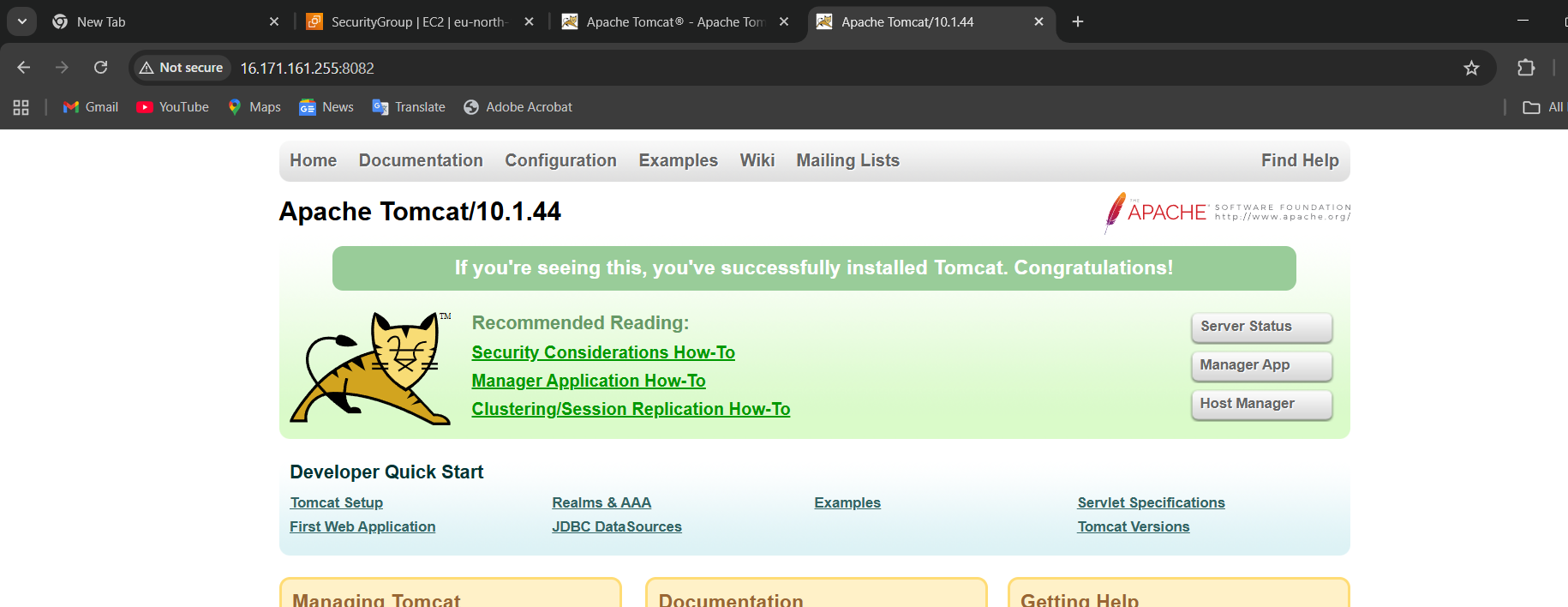


Check ip address





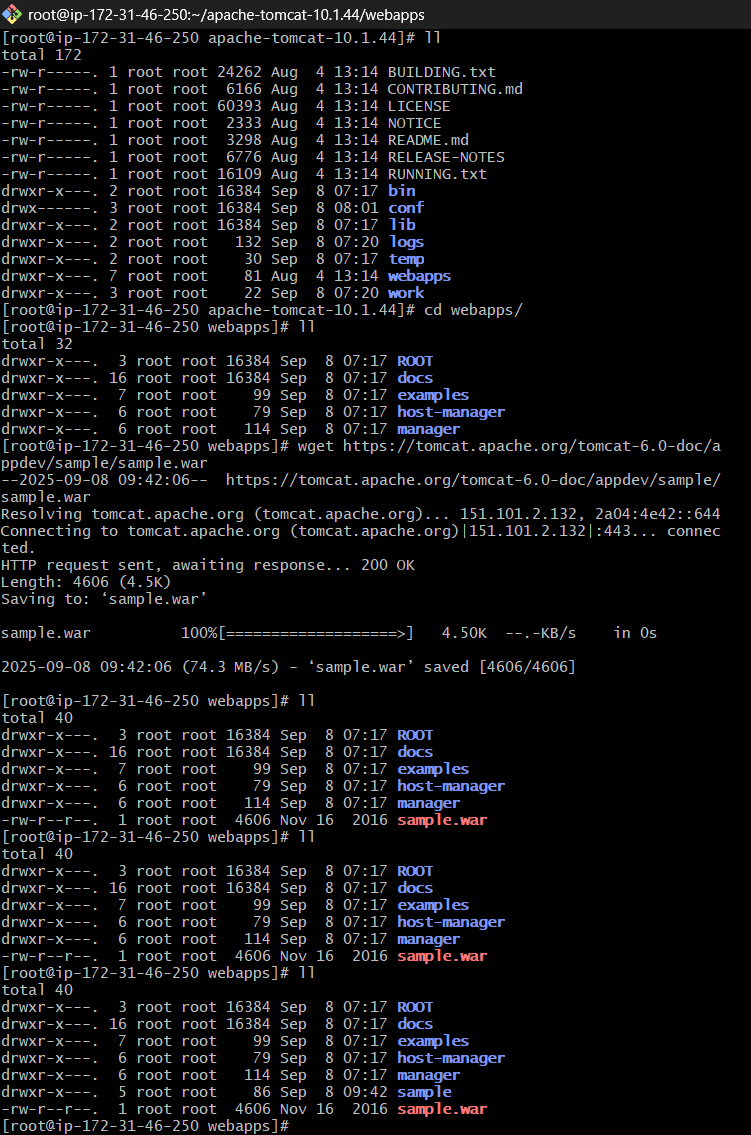
Change the port number after check it will work



6)Deploy a sample app on webapps

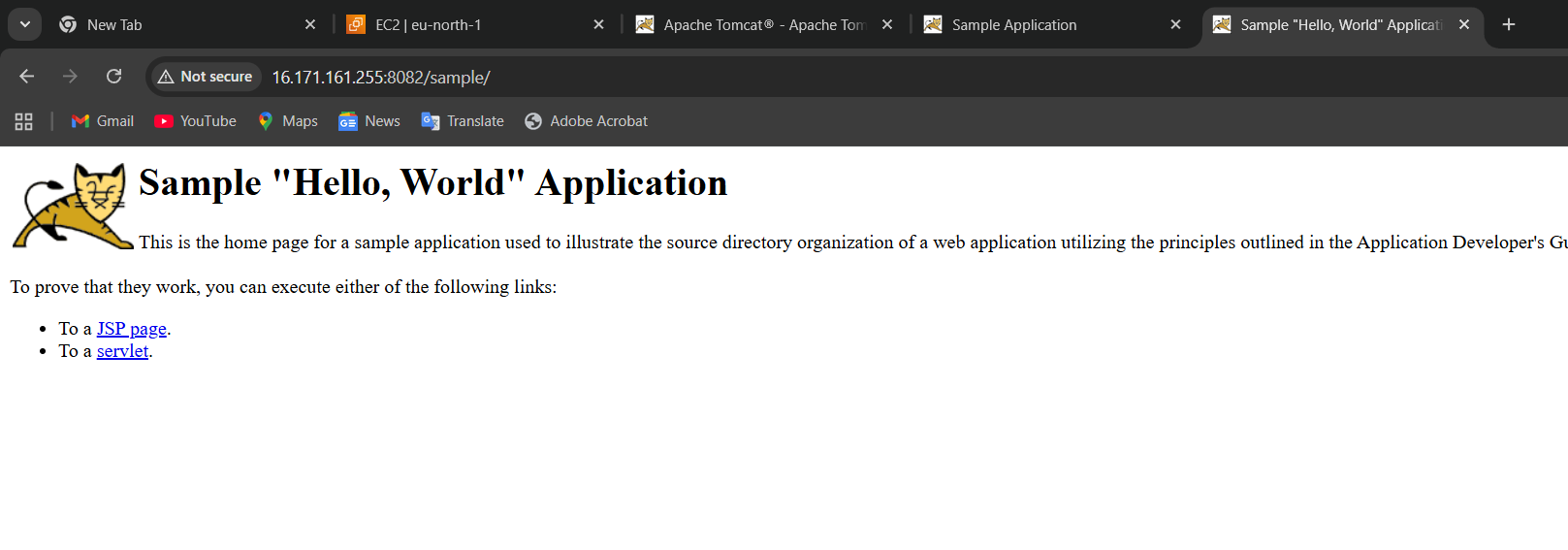
Checking to get a link from the website

Wget using the link to download the CD webapps



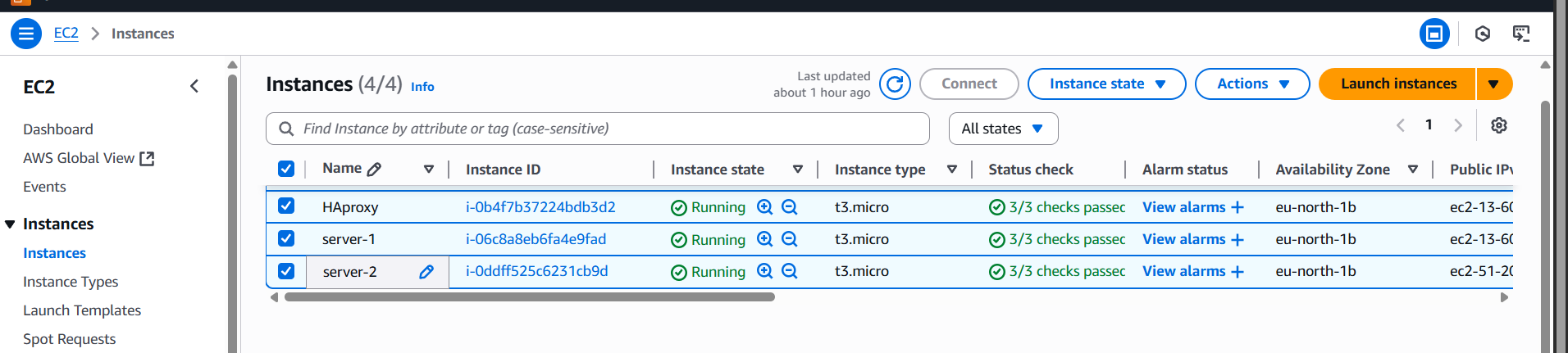
Then extract a file sample using 2 times, ll automatically extract

Using ip:8082/sample/ => give like that we can see output



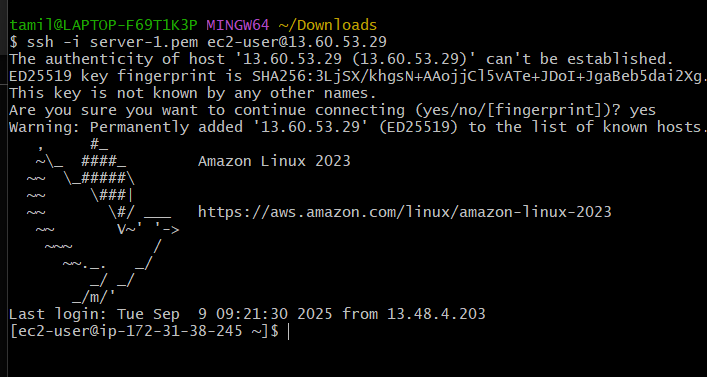
8): HAProxy installation

Open the first 3 EC2 instances

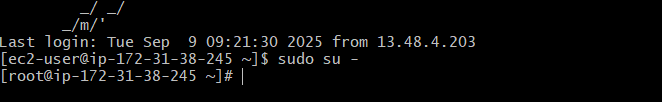


Step 1:

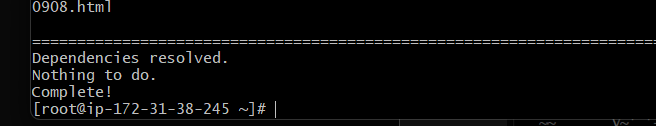
Connect the server 1 first to git bash



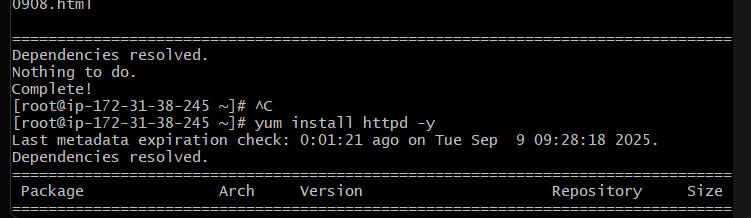
Change the ec2-user to root user



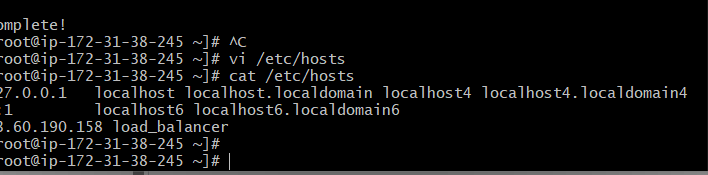
Step : yum update -y



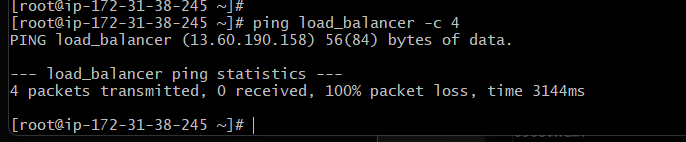
Next yum install httpd -y



Open the file using : vi /etc/hosts  
then add your IP ADDRESS HERE. I added our ip address so that we can see there

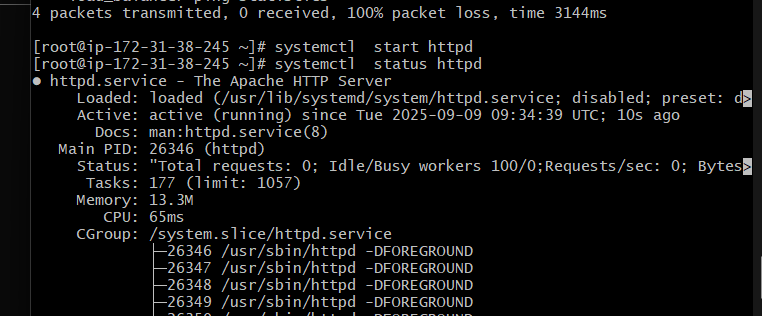


AFTER YOU ADD YOUR IP, You SHOULD EXECUTE THIS COMMAND   
ping load\_balancer -c 4

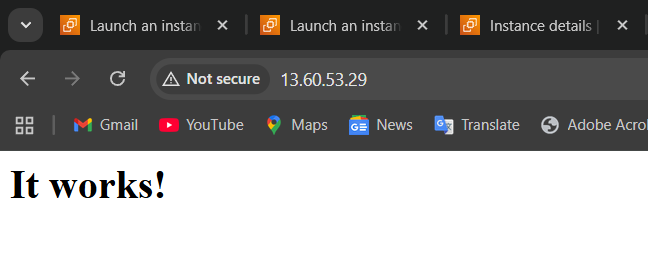


Then after checking the system status

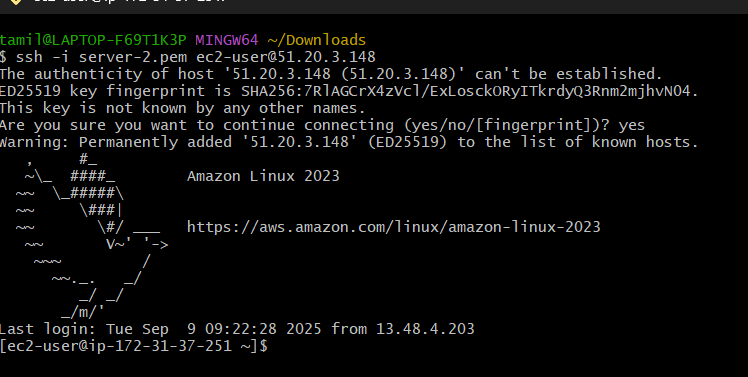
Using these commands, systemctl start httpd and systemctl status httpd   
after you can check whether it's run or not



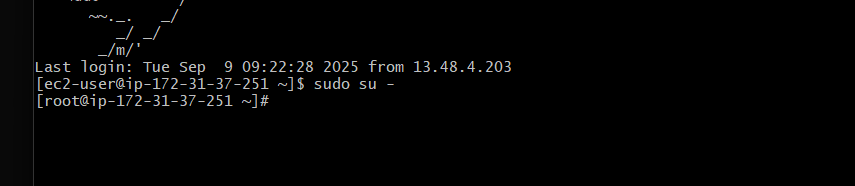
Copy you ip address paste it web browser you check whether its work or not



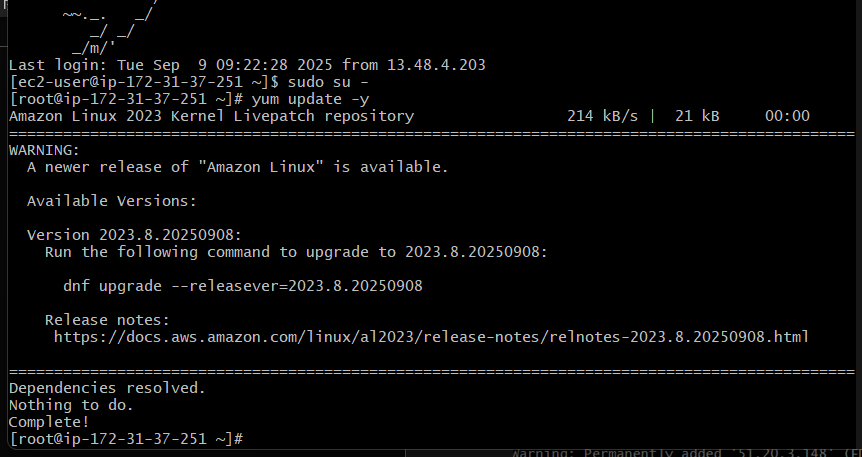
2)Server -2 connect



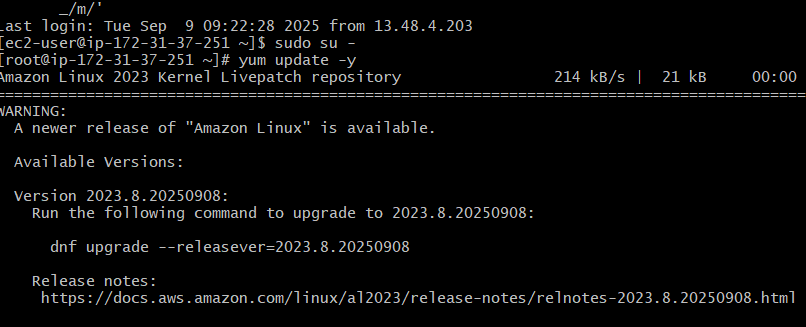
Change user to root using the command sudo su -



After yum update -y

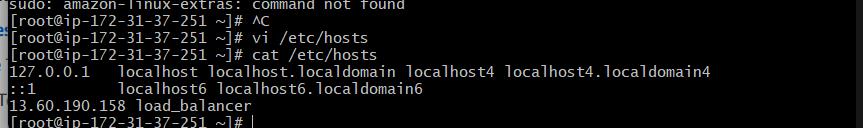


Step : yum Install nginx -y

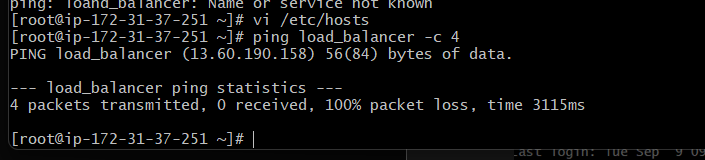


Open: vi /etc/hosts

Cat / etc/hosts => you able to see the change I added the IP address

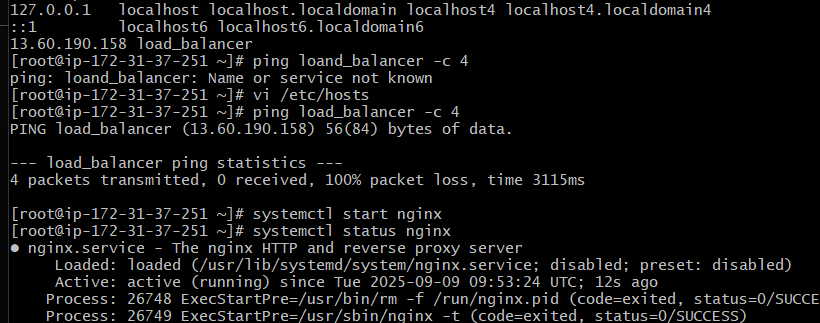


After adding, execute these commands  
ping load\_balancer -c 4

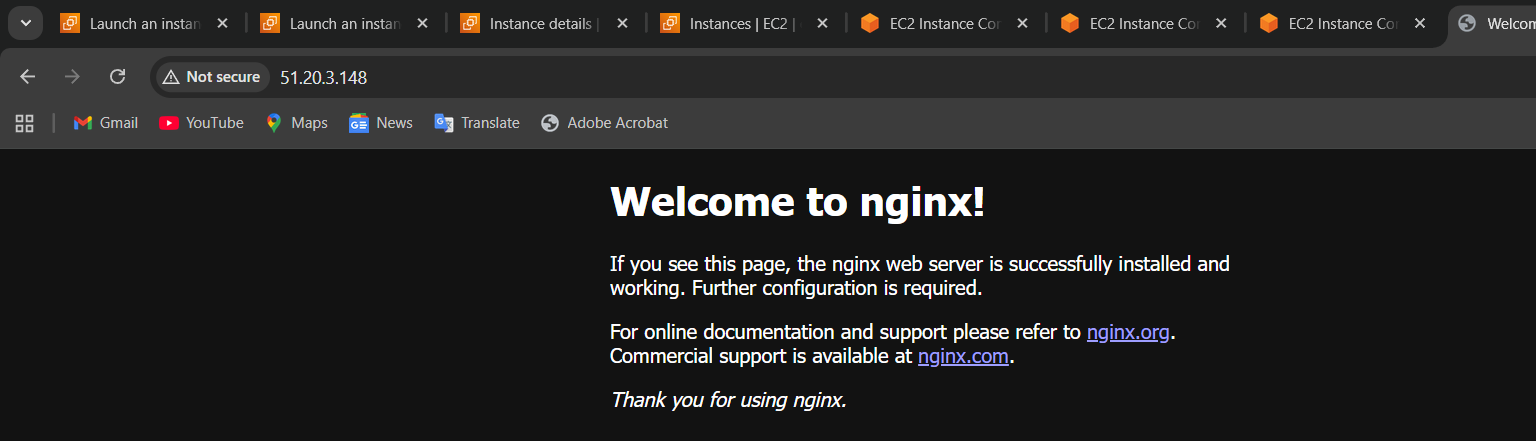


Check the status   
systemctl start nginx

Systemctl status nginx

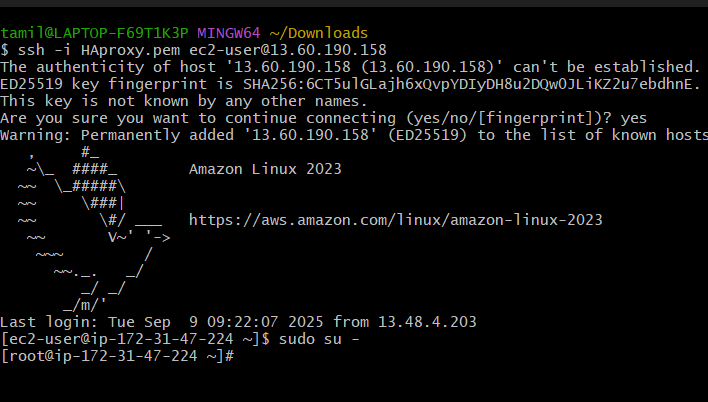


Check your ip in the web server (IP:80)



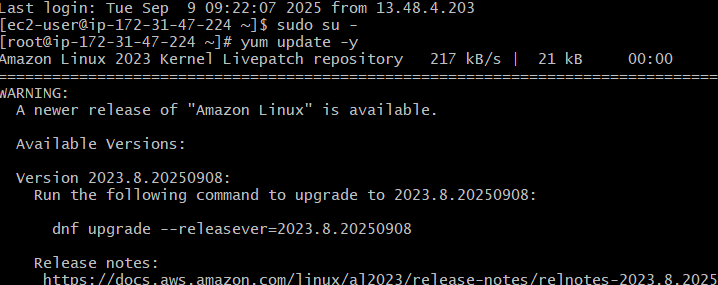
3)haproxy installation

Connect EC2 instance

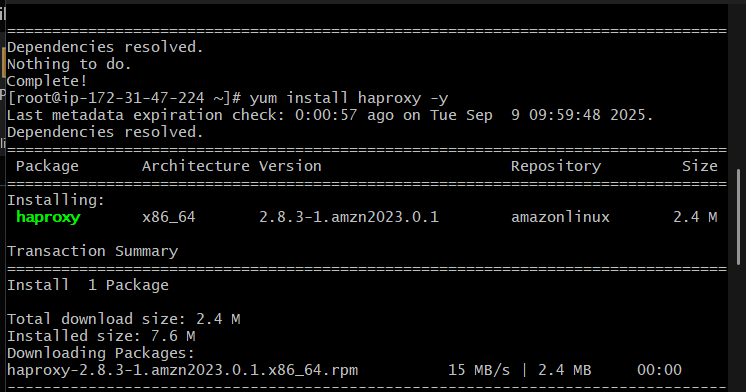


Change the user to root sudo su –

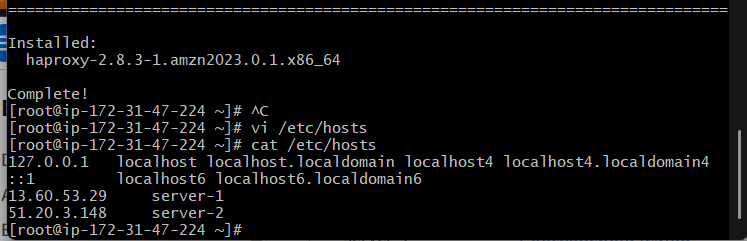
Then after yum update -y



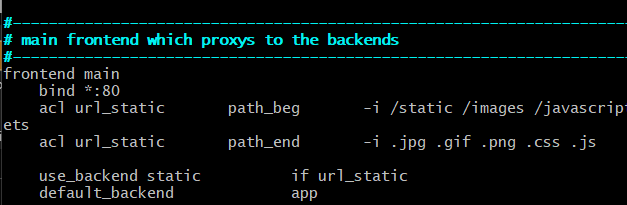
Ysue this command for install haproxy Yum install haproxy -y



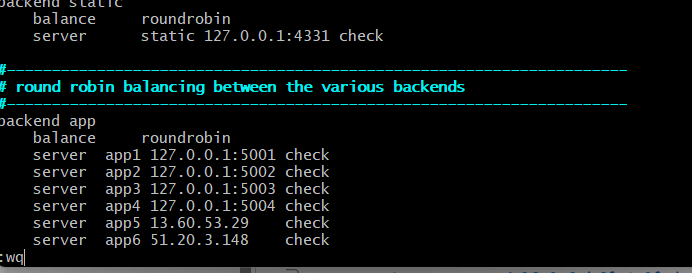
Install after open a file   
vi /etc/hosts

Cat /etc/hosts  
you can add the server 1 ip address and the server 2 address   
you can see there

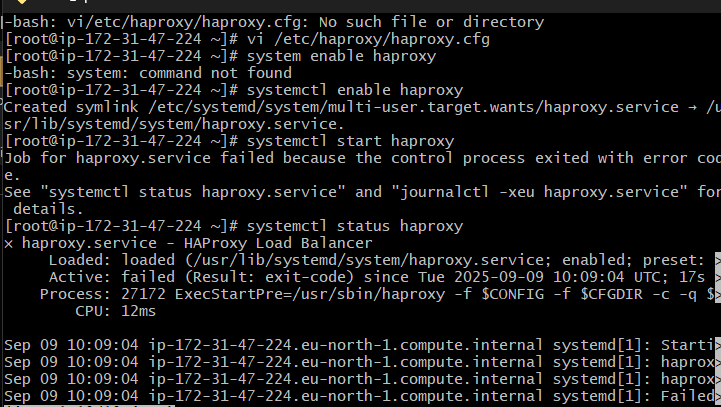
We need to make a change in two places. There is 80 and below in one screenshot that also

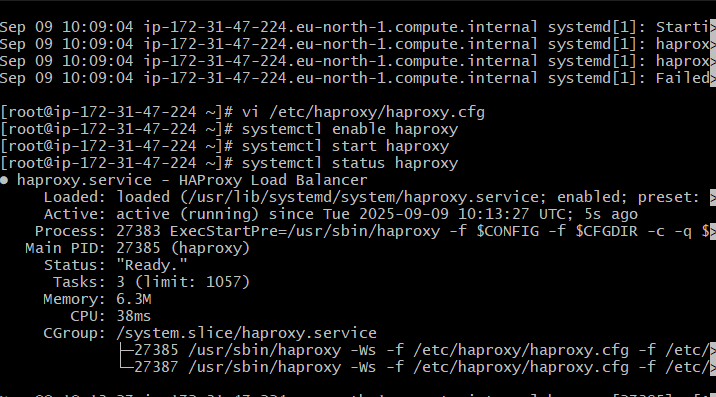


Then, after you can change the settings below the server 5 and server 6  
we should add both IP addresses we need to add here



Add after that some commands we have to execute  
systemctl enable haproxy => it takes some time to execute   
The first one screen short failed because the server was down, which resulted in failure.   
then, after I can change properly I got the correct output





Then it works well

