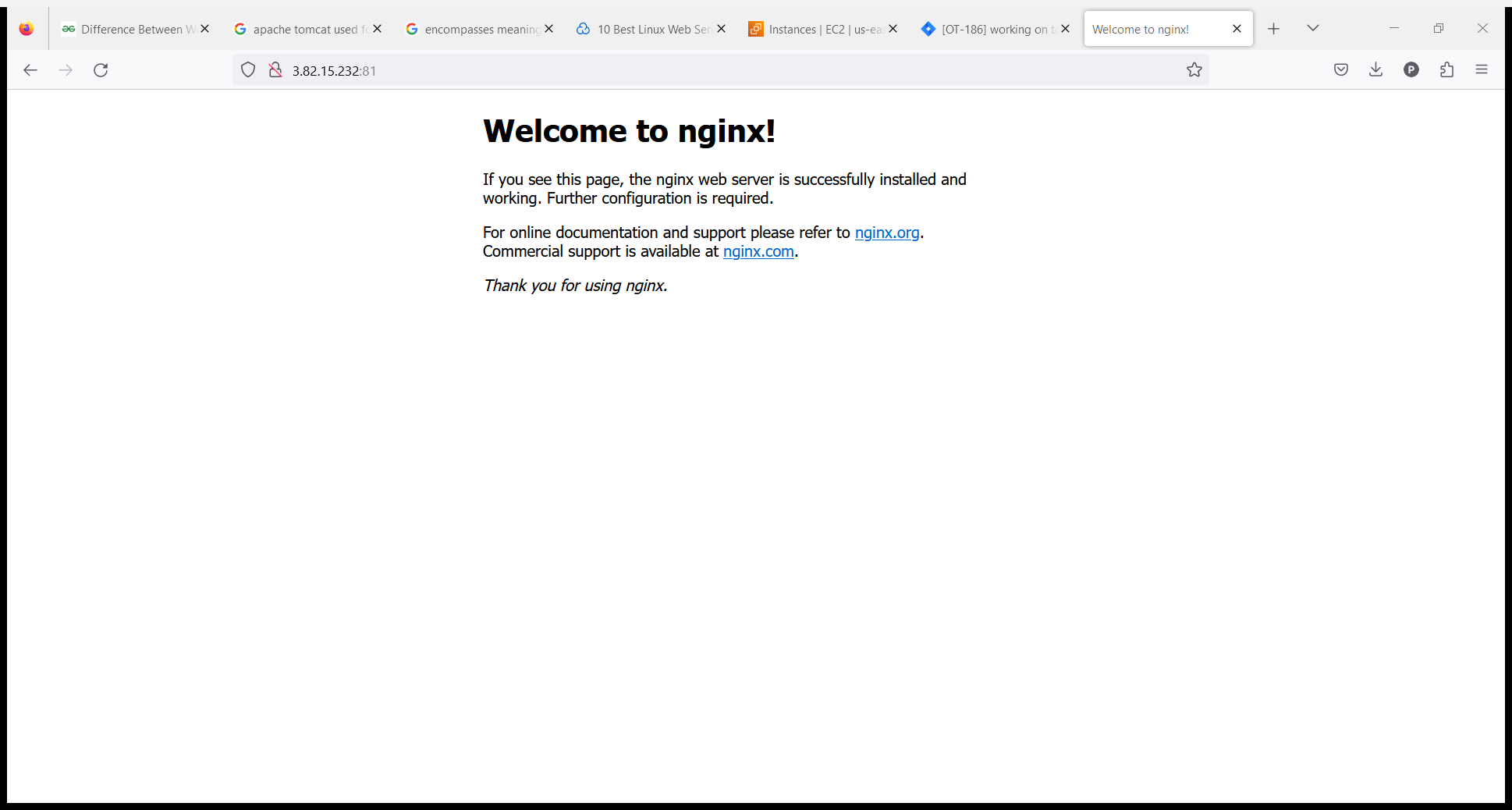
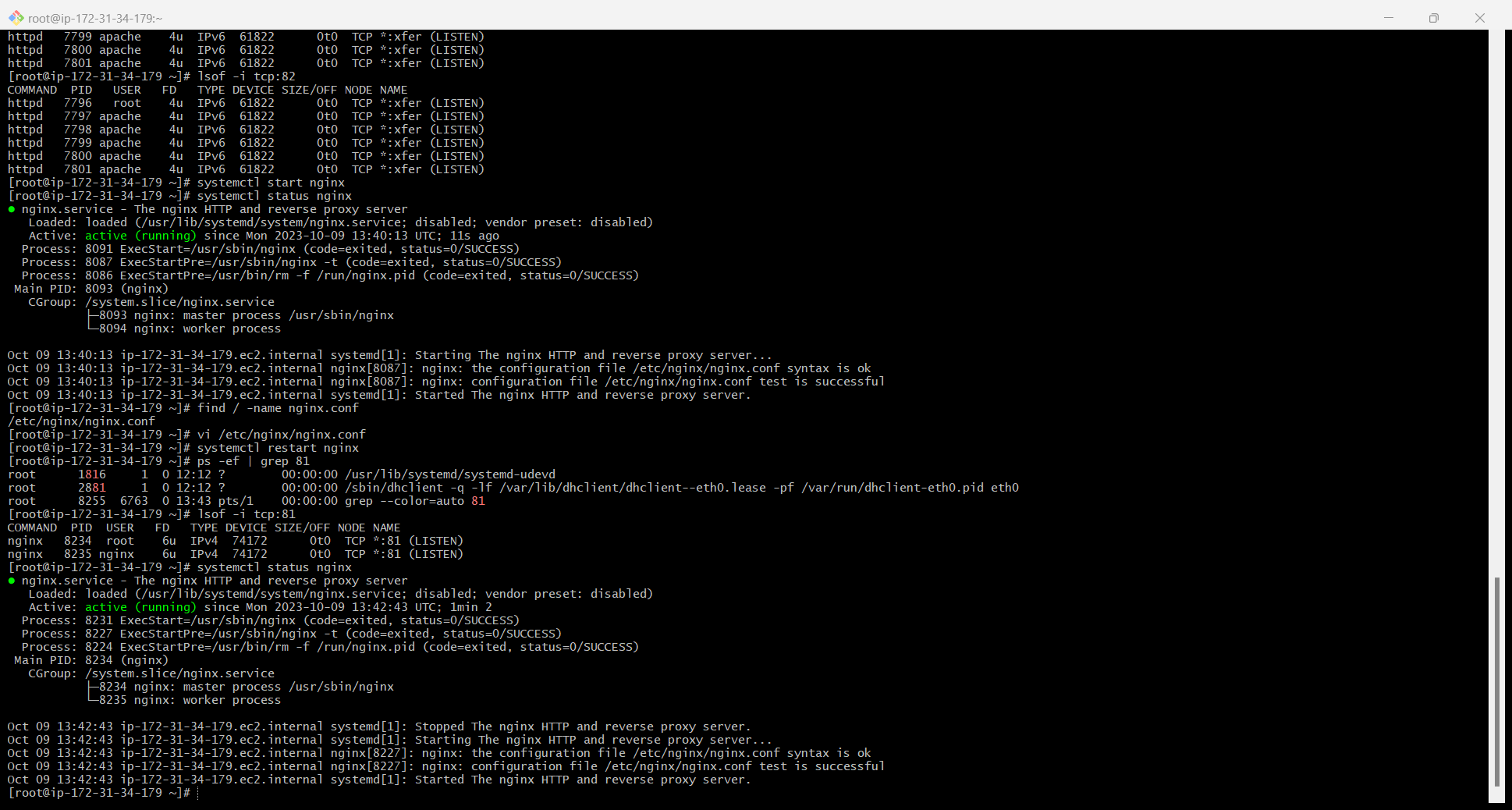
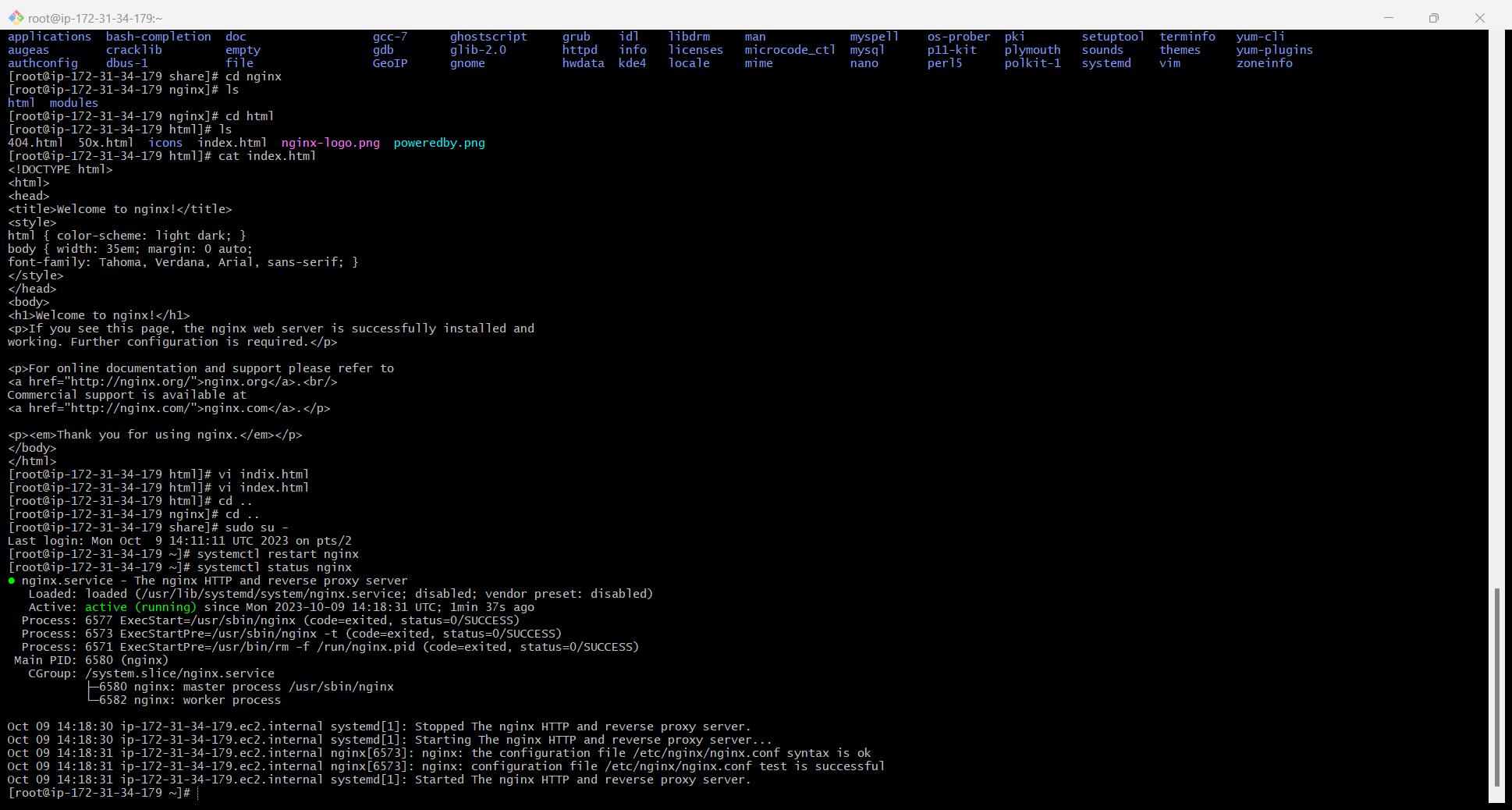
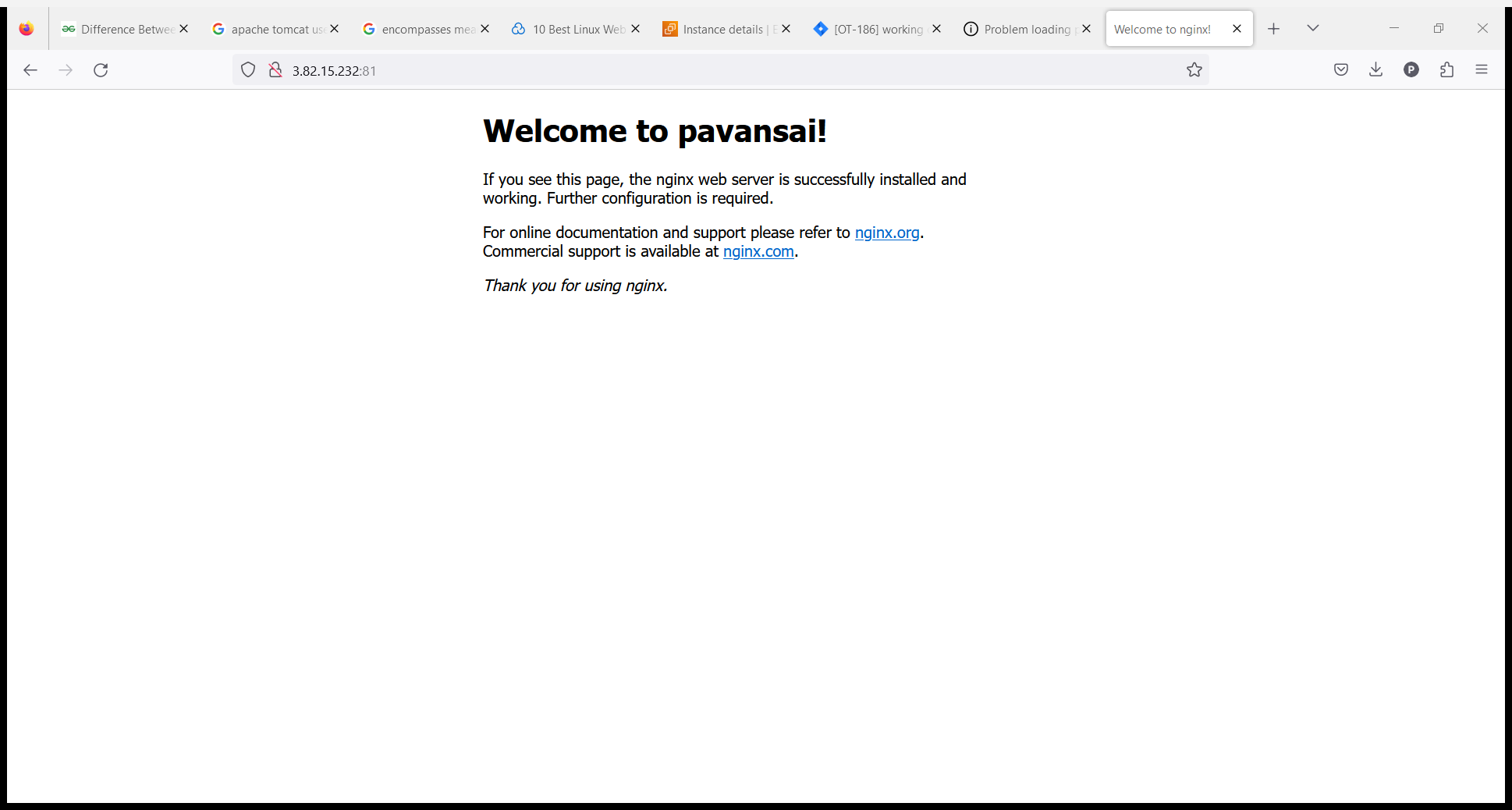
1. Install nginx and run nginx on port number 81.



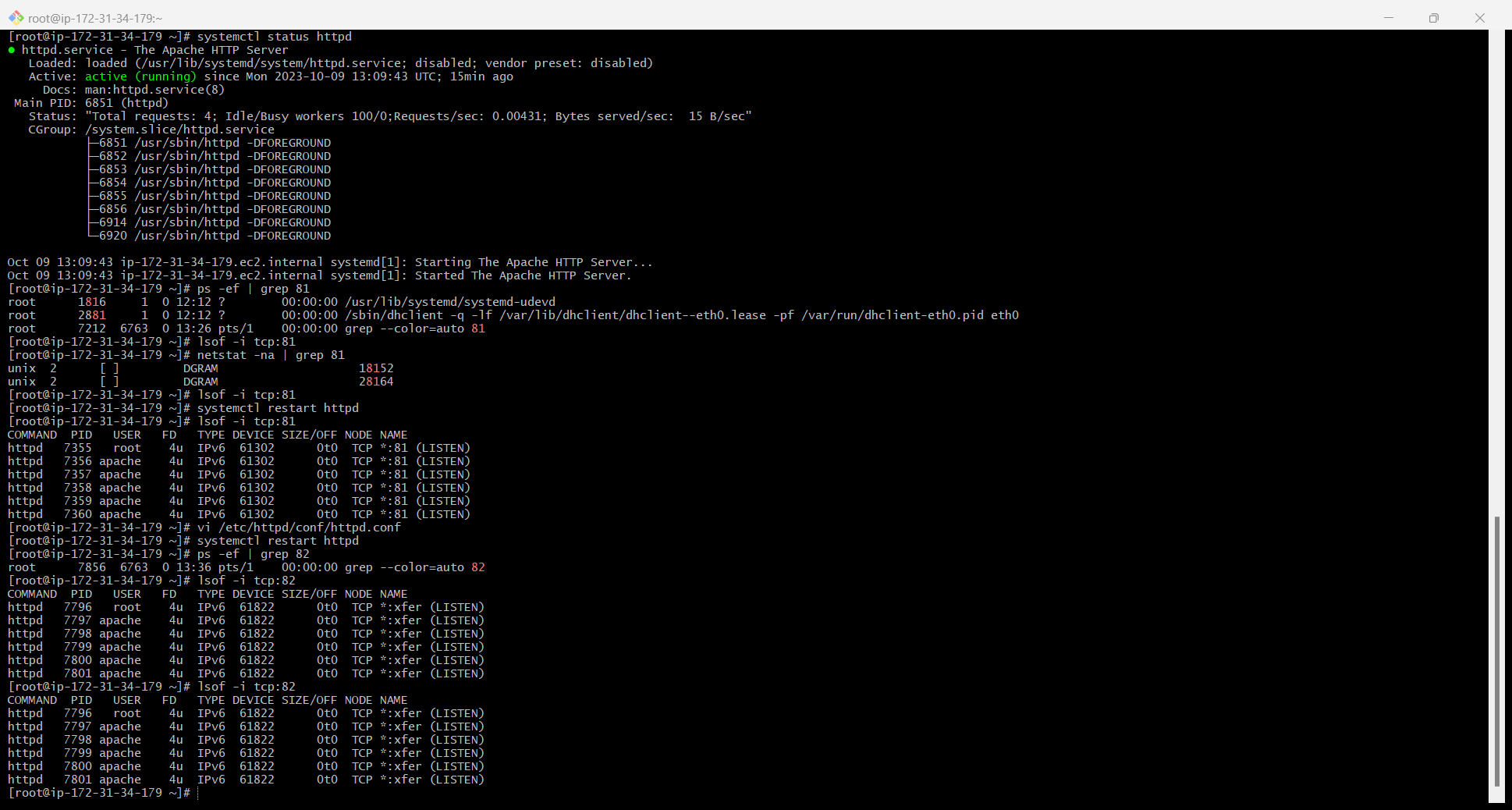


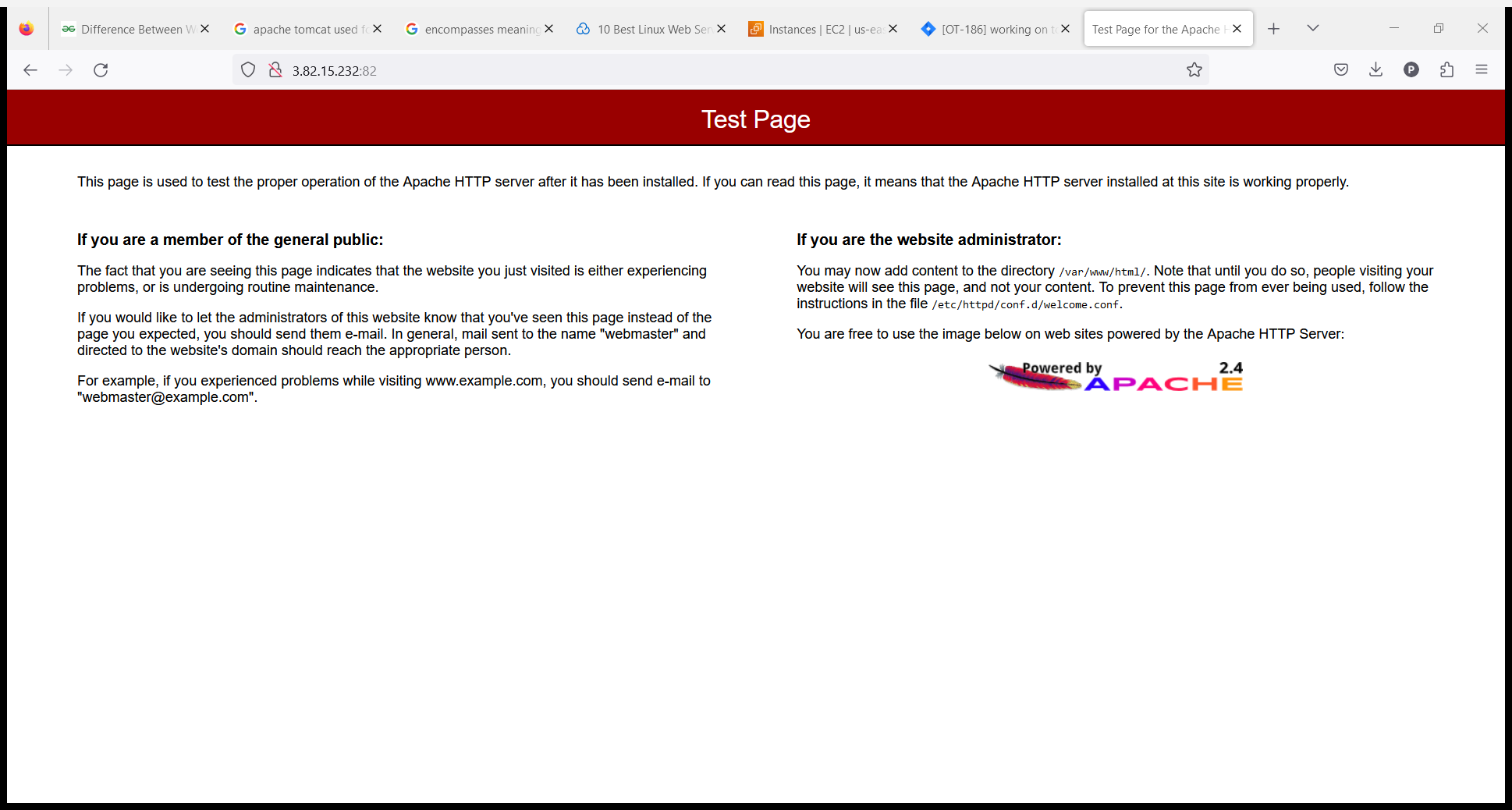
1. Deploy a sample index.html file on nginx.



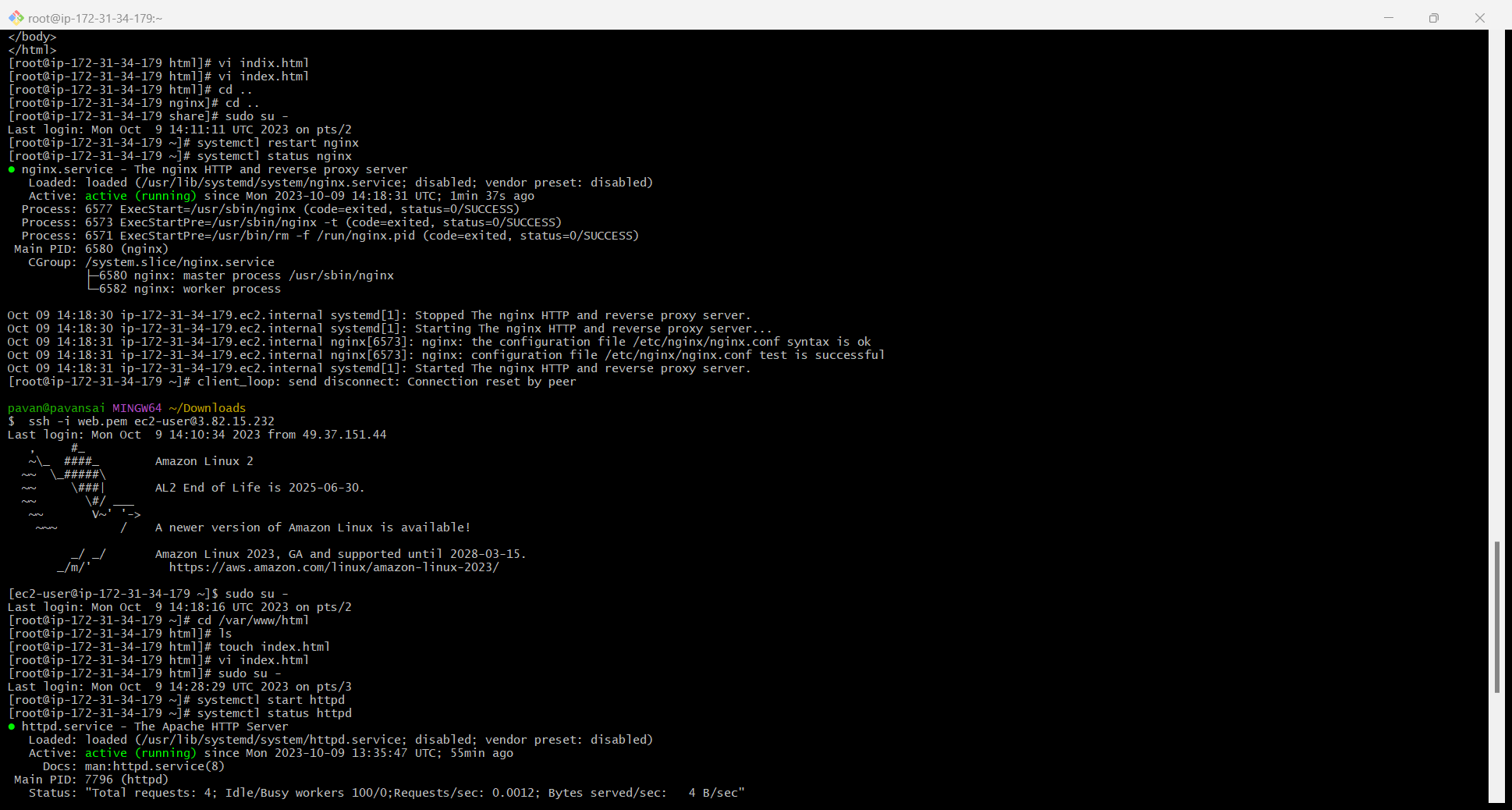


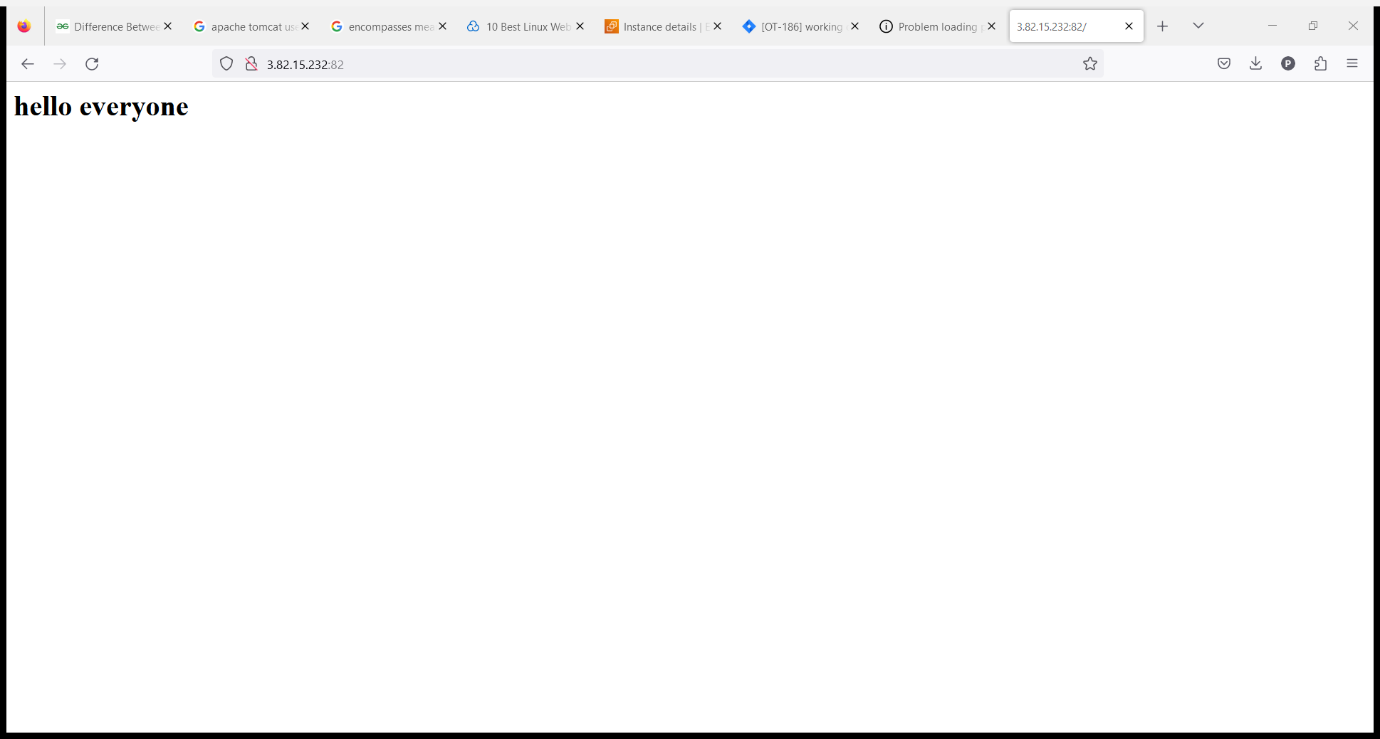
3) Install Apache and run Apache on port number 82



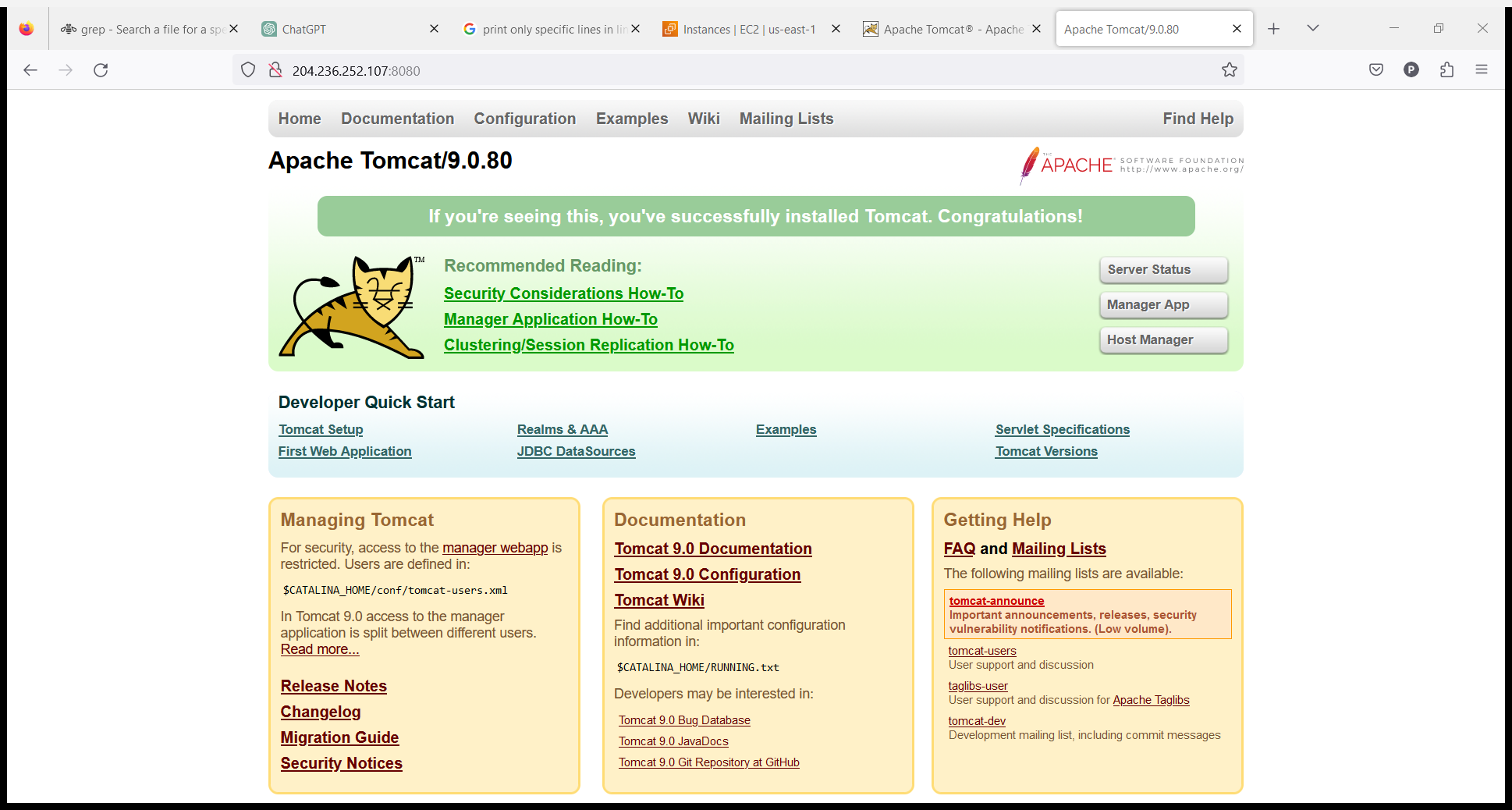


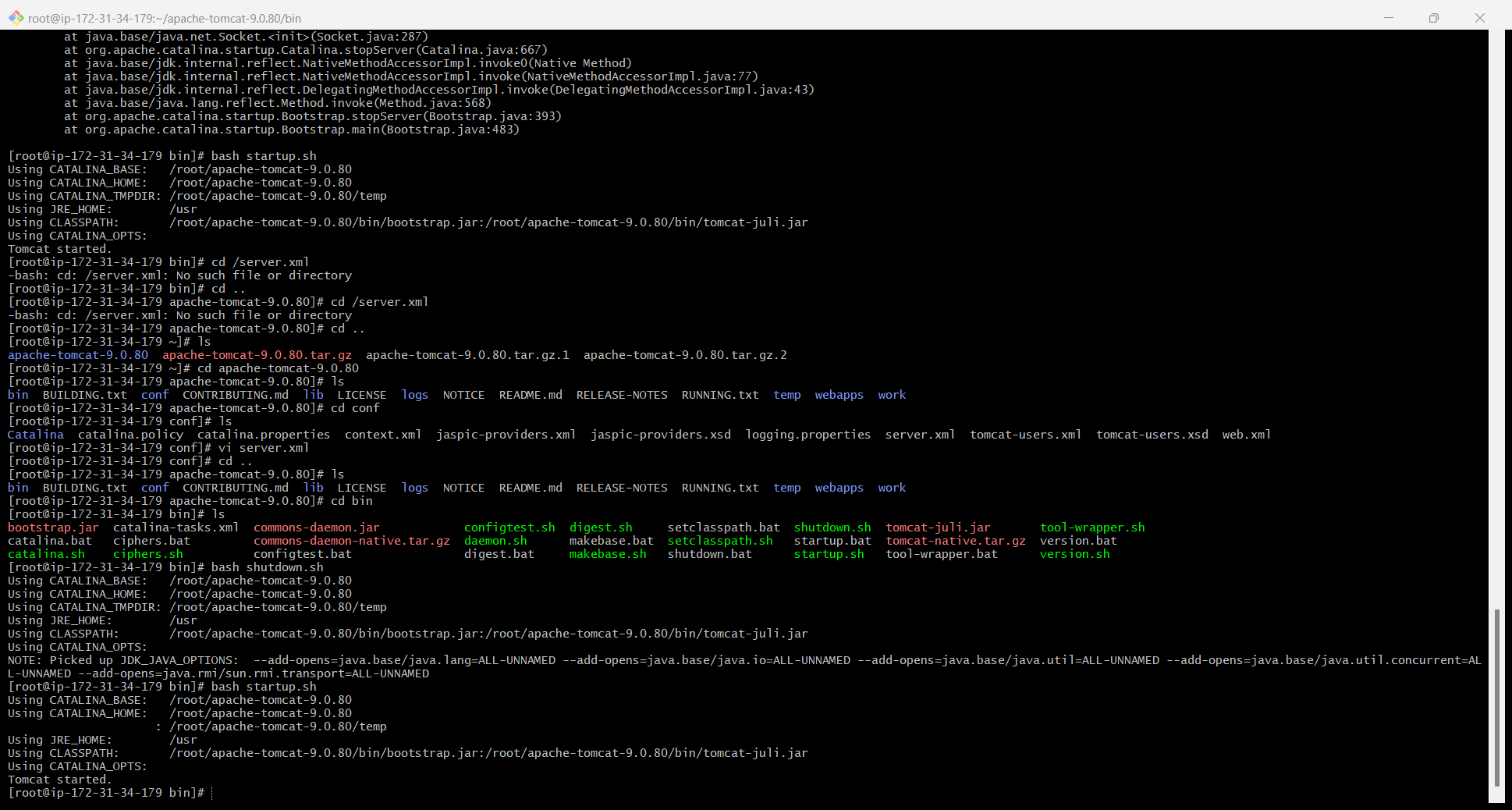
1. Deploy a sample index.html file on Apache.

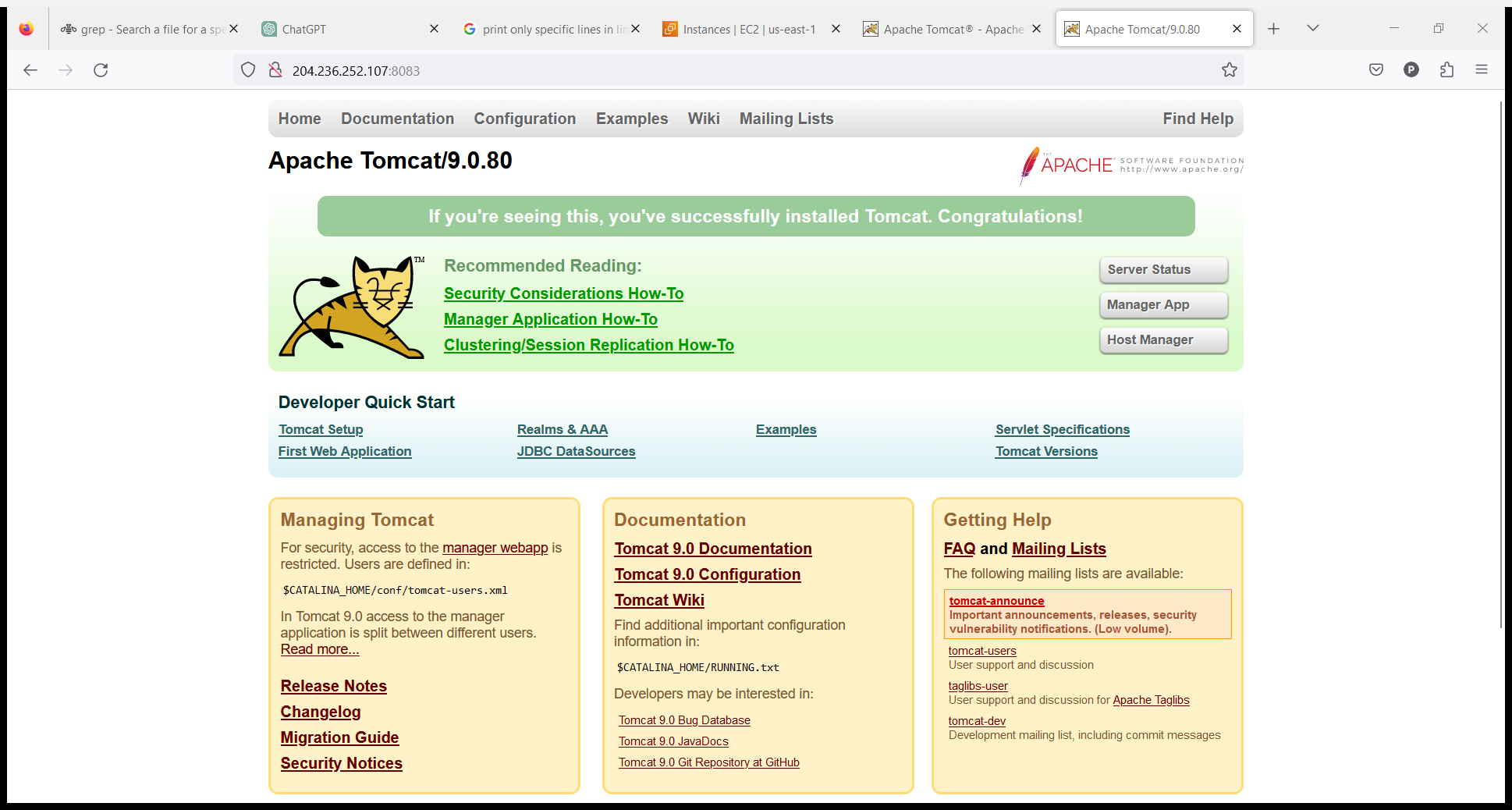




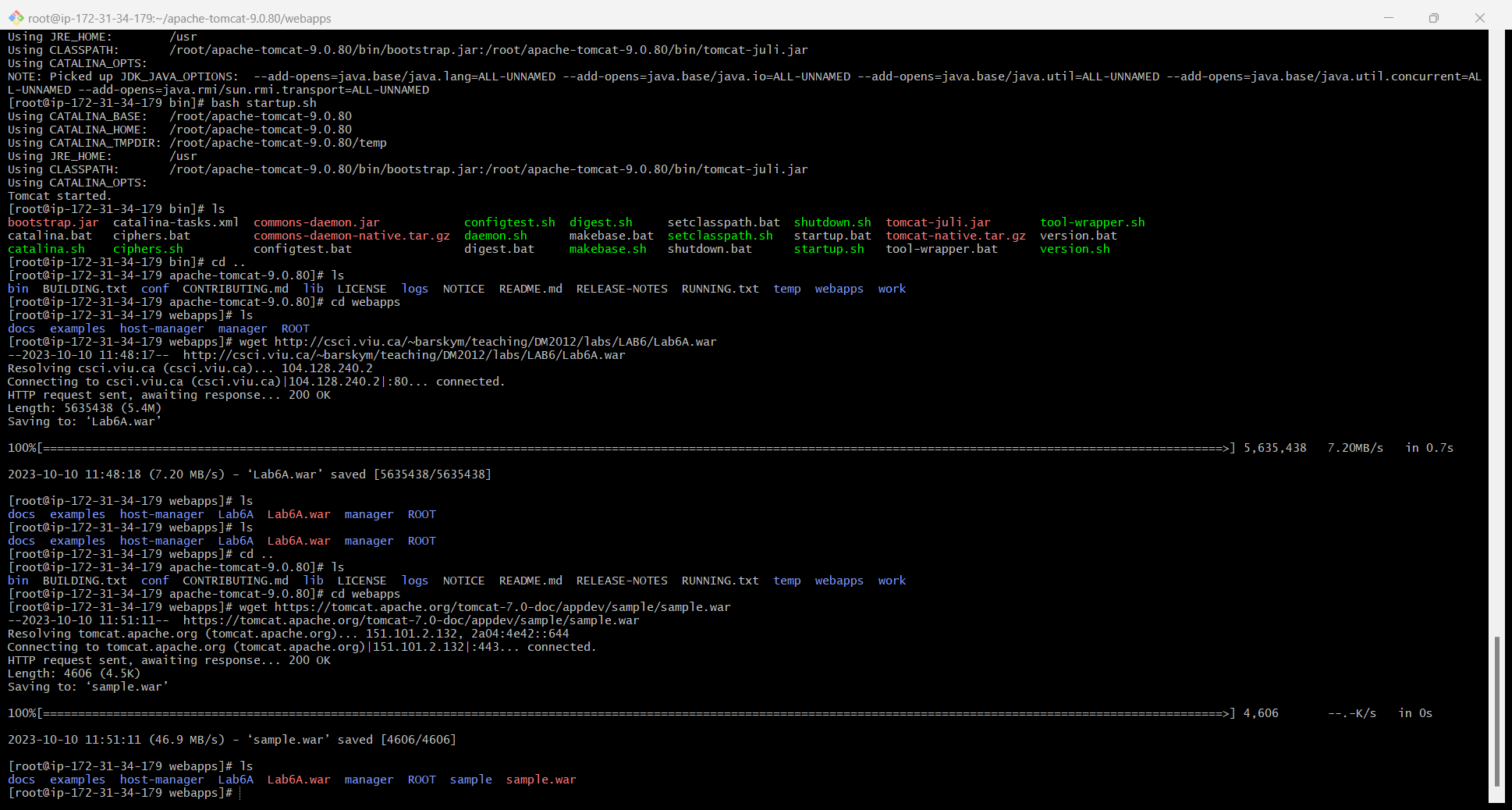
1. Install Apache tomcat on port number 8082

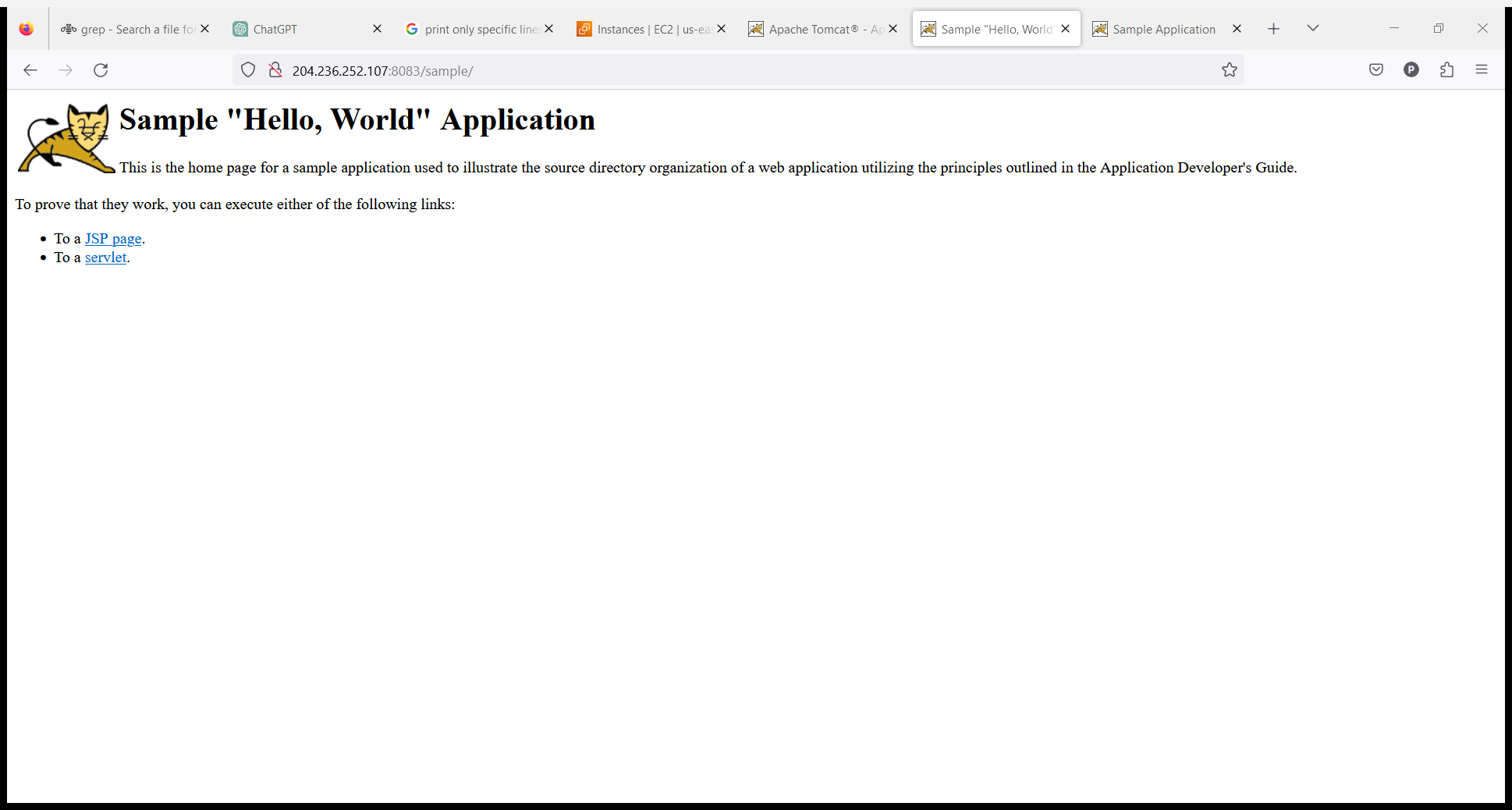






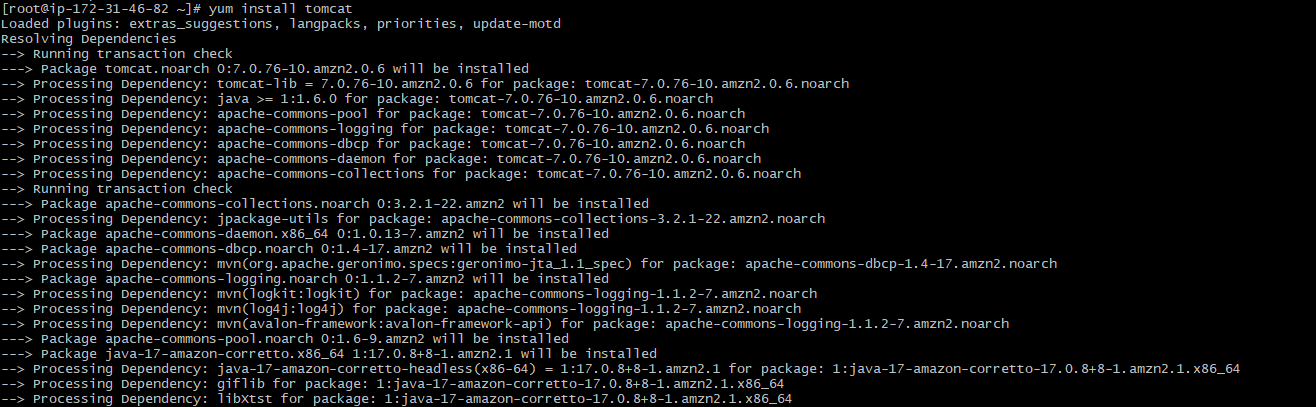
1. Deploy a sample app on webapps





1. Create a tomcat.service file for tomcat.

First install tomcat



Add tomcat.service file in the below location



Add the below content

[Unit]

Description=Tomcat - instance %i

After=syslog.target network.target

[Service]

Type=forking

User=root

Group=root

ExecStart=/opt/apache-tomcat-9.0.78/bin/startup.sh #check the path of startup.sh

ExecStop=/opt/apache-tomcat-9.0.78/bin/shutdown.sh #check the path of shutdown.sh

RestartSec=10

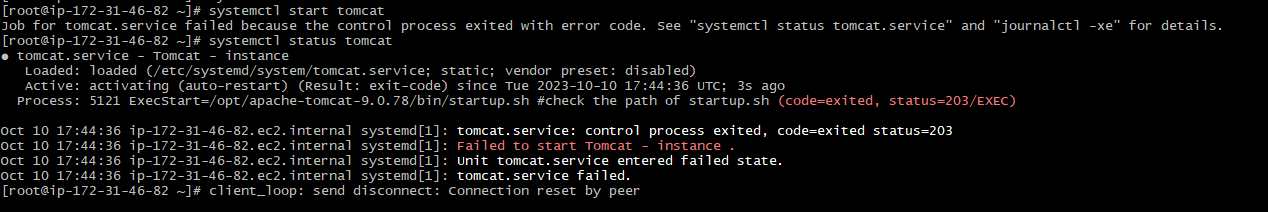
Restart=always..

Then Restart Daemon

Command is systemctl daemon-reload

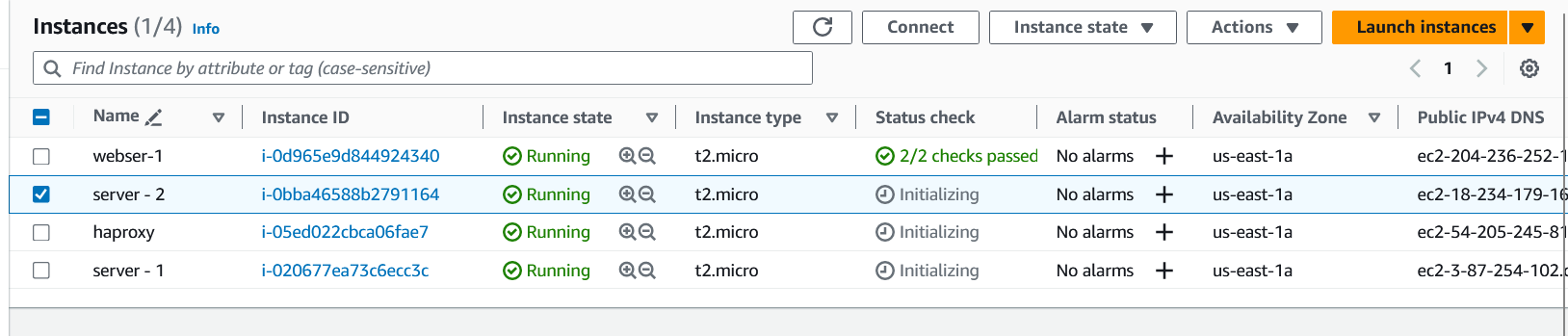


Then Start tomcat using systemctl.

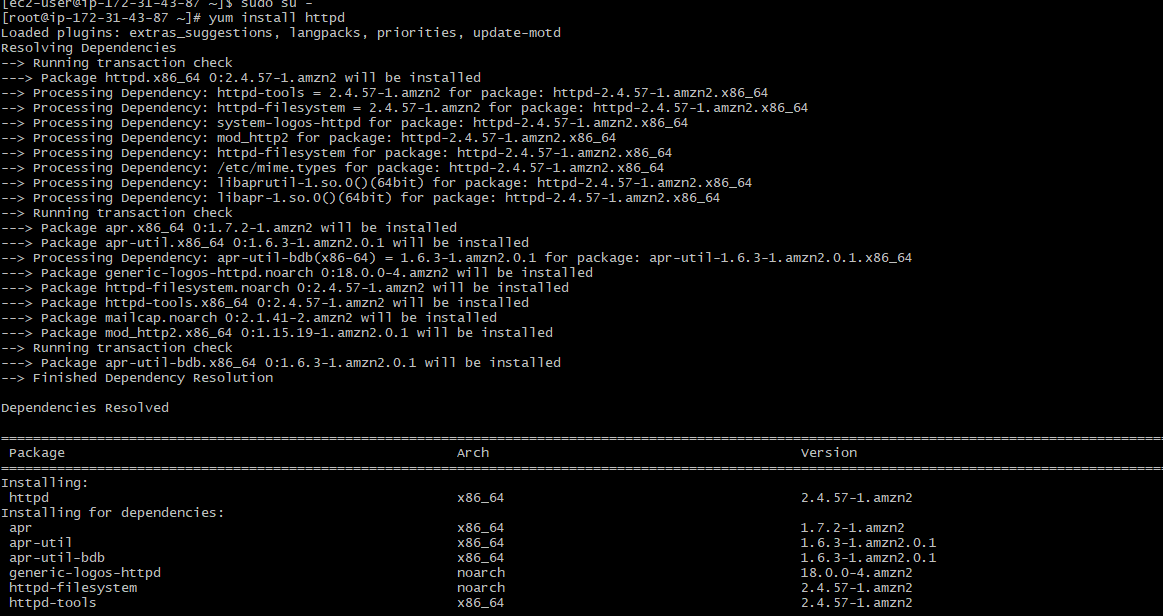


8) Configure HA Proxy server

**Launching 3 EC2 instances for httpd, nginx and haproxy**

****

**Install httpd in one server that named it as server-1 , start and status of httpd**

****

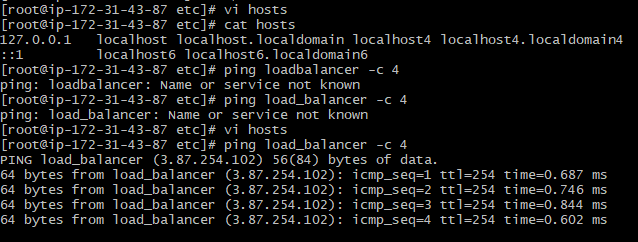
**Create sample index.html file**

****

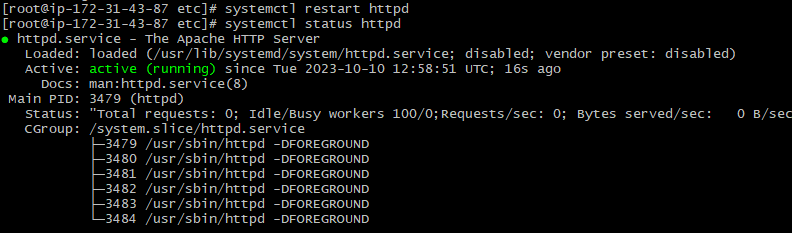
**Now go to cd /etc**

****

**Then go to vi hosts and give HA proxy server public ip address and ping the load balancer**

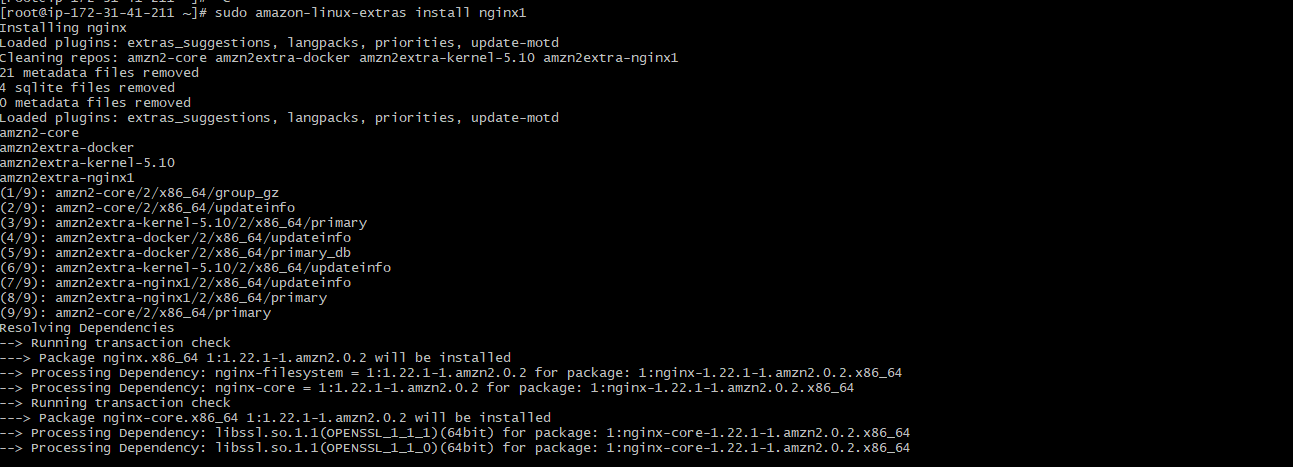
****

**Again restart and check status of httpd**

****

**Now go to server-2**

**Install nginx, start and check status**

****

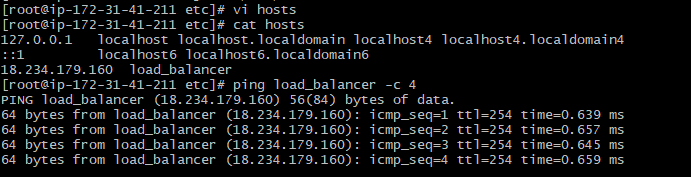
**Here create a index.html code as same as httpd but here command is echo “hello world” > /usr/share/nginx/html/index.html**

****

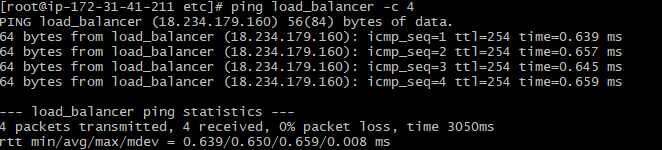
**Go to cd**

****

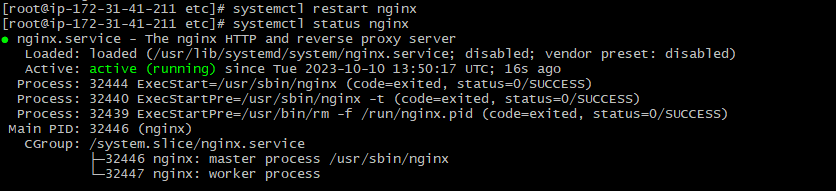
**Now go to vi hosts give public ip address of HAproxy**

****

**Ping load balancer**

****

**Again restart and check status of nginx**

****

**Now come to HA proxy server like our server-3**

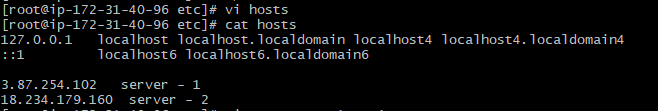
**Install HAproxy and start and check status**

****

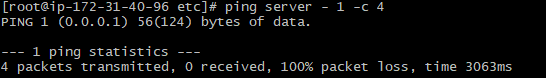
**Cd /etc**

****

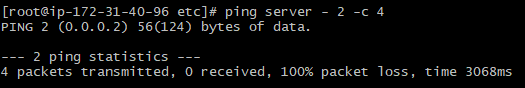
**Vi hosts and give server-1 and server-2 public ip address**

****

**Ping server - 1**

****

**Ping server -2**

****

**Cd haproxy**

****

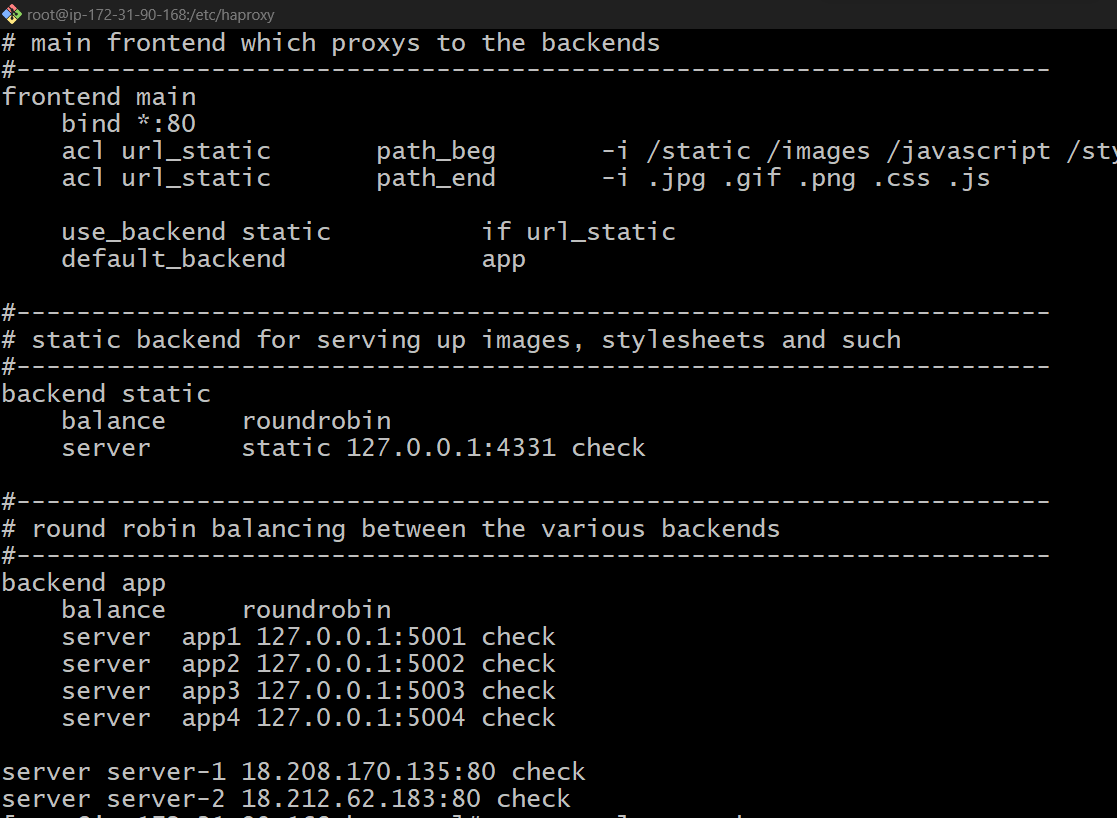
**Create back up of haproxy.cfg**

****

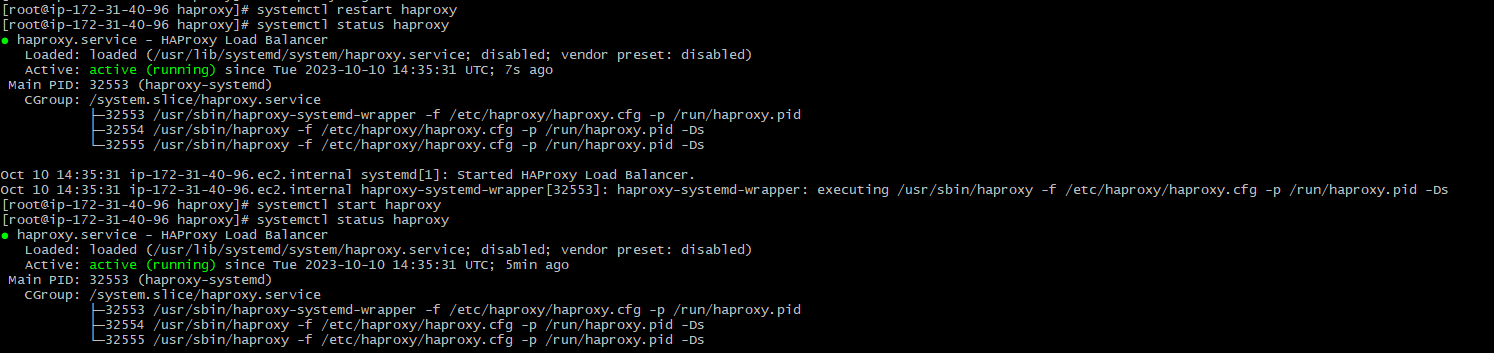
**Vi haproxy.cfg**

****

**Here give port number 80 in main frontend and give public ips of server-1 and server-2 in backend in the same file**



**Again restart and check status**

****

**Here the result take ip address of ha proxy and browse**

