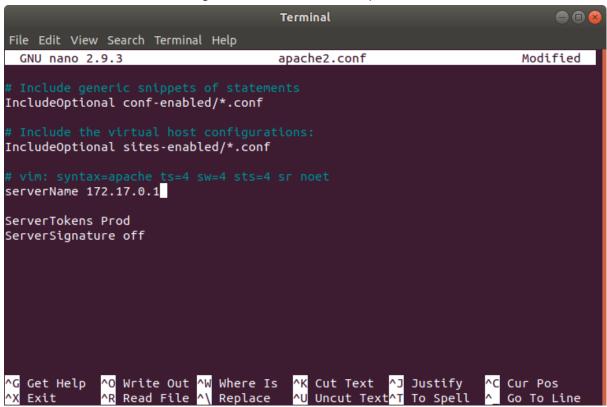
Nguyen Thi Truc Ngan B1807652 LAB 2

2.1.

- Go to \$Web\_Server folder
- Modify apache2.conf by using vi or nano editor

student@p24m01:~\$ cd /etc/apache2 student@p24m01:/etc/apache2\$ sudo nano apache2.conf

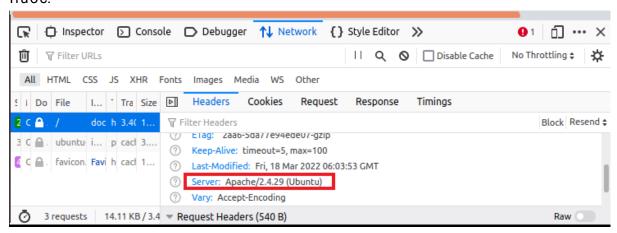
• Add the following directive and save the apache2.conf



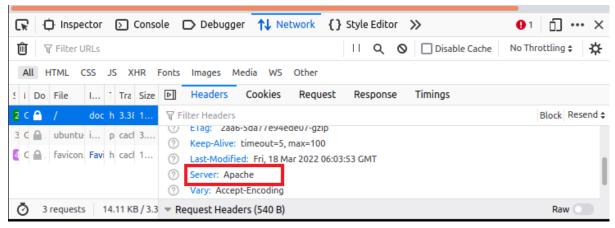
Restart apache

student@p24m01:/etc/apache2\$ sudo systemctl restart apache2 Kết quả:

Trước:



Sau:



2.2

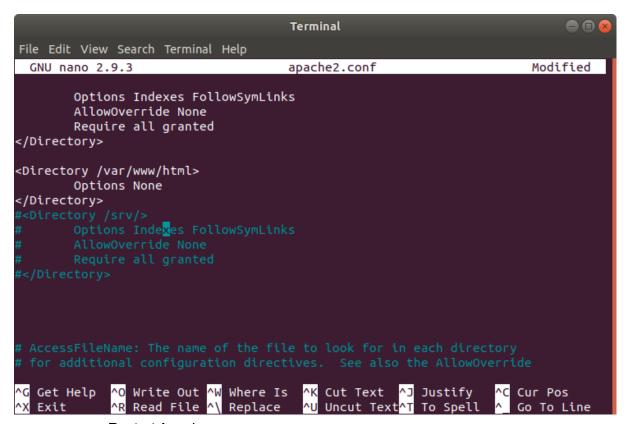
- Go to \$Web\_Html directory
- Create a folder test and few files inside that

```
student@p24m01:/var/www/html$ sudo mkdir test
student@p24m01:/var/www/html$ cd test
student@p24m01:/var/www/html/test$ touch hello
touch: cannot touch 'hello': Permission denied
student@p24m01:/var/www/html/test$ sudo touch hello hi
student@p24m01:/var/www/html/test$ ls
hello hi
student@p24m01:/var/www/html/test$
```

- Go to \$Web Server directory
- Open apache2.conf using vi

```
student@p24m01:/etc/apache2$ cd /etc/apache2
student@p24m01:/etc/apache2$ sudo nano apache2.conf
```

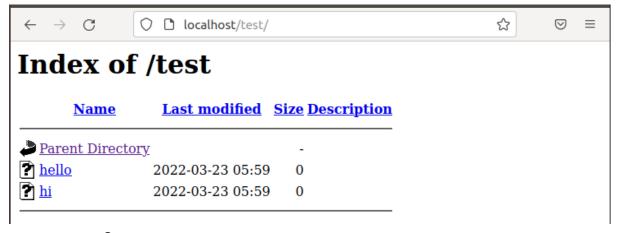
Search for Directory and change Options directive to None or –Indexes



Restart Apache

student@p24m01:/etc/apache2\$ sudo systemctl restart apache2 Két quả:

Trước:



• Sau:



3.1

Create a user and group called apache

## student@p24m01:/etc/apache2\$ sudo useradd -g apache apache

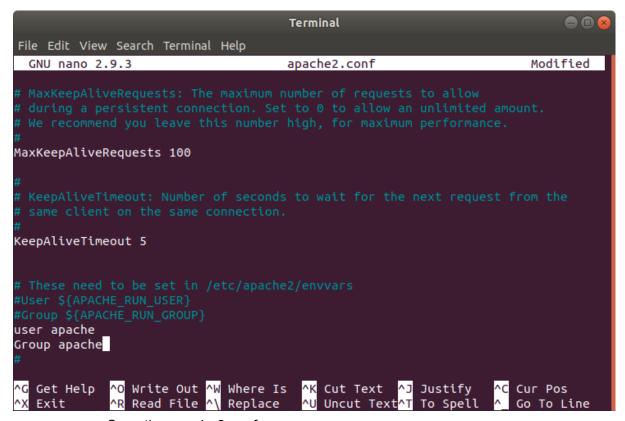
 Change apache installation directory ownership to newly created non-privileged user

student@p24m01:/etc/apache2\$ sudo chown -R apache:apache /etc/apache2 student@p24m01:/etc/apache2\$

- Go to \$Web\_Server
- Modify apache2.conf using nano

student@p24m01:/etc/apache2\$ sudo chown -R apache:apache /etc/apache2 student@p24m01:/etc/apache2\$ cd /etc/apache2 student@p24m01:/etc/apache2\$ sudo nano apache2.conf

 Search for User & Group Directive and change as non-privileged account apache



- Save the apache2.conf
- Restart Apache

## student@p24m01:/etc/apache2\$ sudo systemctl restart apache2

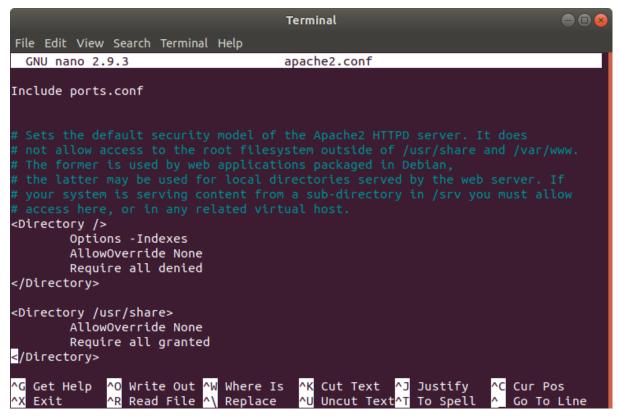
3.2

- Go to \$Web\_Server directory
- Change permission of bin and conf folder

student@p24m01:/etc/apache2\$ sudo chmod -R 750 /etc/apache2 student@p24m01:/etc/apache2\$

3.3

- Go to \$Web\_Server directory
- Open apache2.conf using vi
- Search for Directory at root level

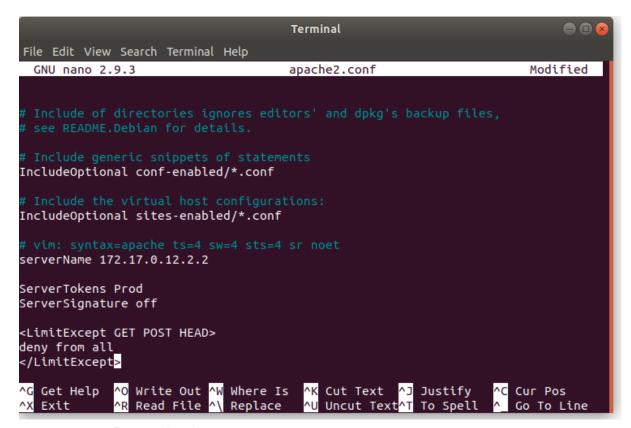


- Save the apache2.conf
- Restart Apache

## student@p24m01:/etc/apache2\$ sudo systemctl restart apache2

3.4

- Go to \$Web\_Server directory
- Open apache2.conf using nano
- Search for Directory and add following

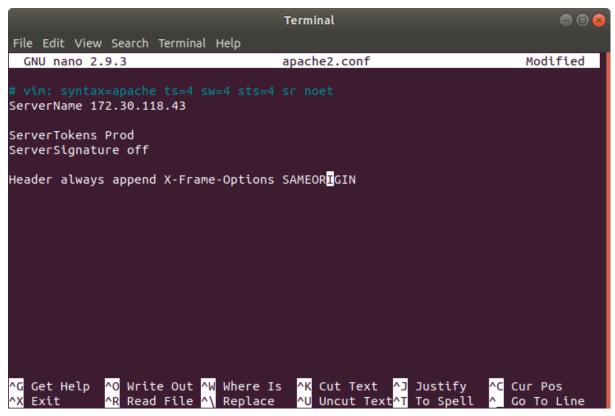


Restart Apache

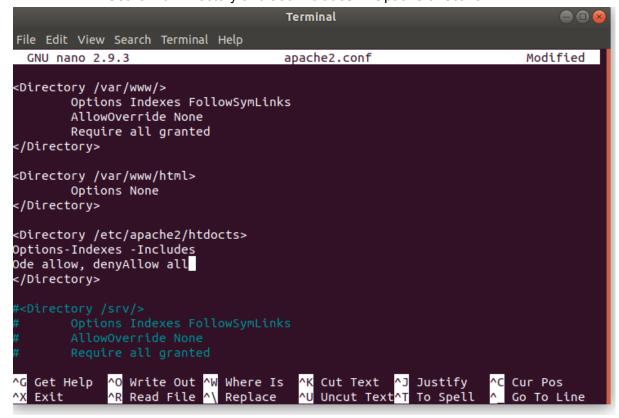
## student@p24m01:/etc/apache2\$ sudo systemctl restart apache2

4.2

- Ensure mod\_headers.so is enabled in your apache2.conf
- Go to \$Web\_Server directory
- Add the following directive and save the apache2.conf



- 4.4
- Go to \$Web\_Server directory
- Open apache2.conf using nano
- Search for Directory and add Includes in Options directive



Go to \$Web\_Server directory

• Open apache2.conf using vi and add following Header directive

