

Install and Configure the Apache Web Server

Step 1: Install the Apache package on Ubuntu by the following command.

```
$ sudo apt-get install apache2 -y
```

Basics commands for controlling Apache Service:

Stop Apache: **sudo systemctl stop apache2.service**

Start Apache: **sudo systemctl start apache2.service**

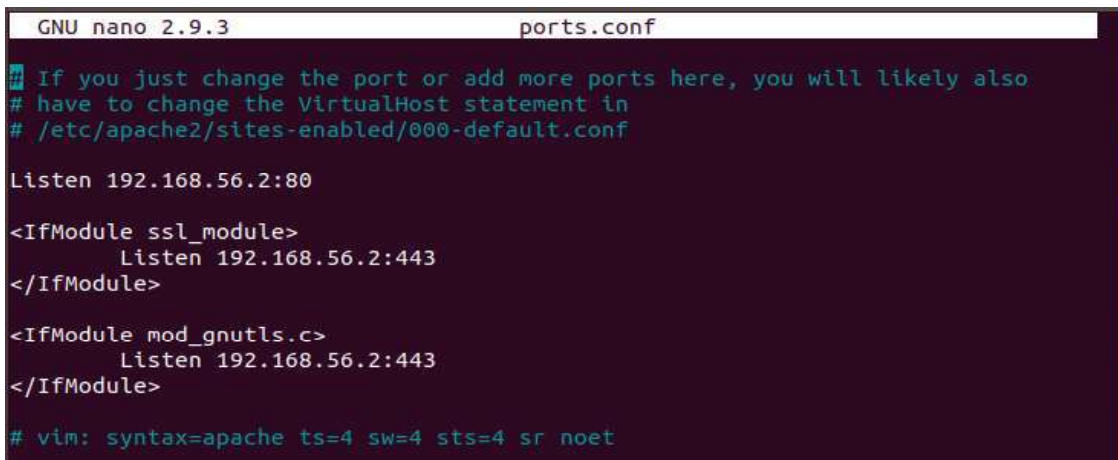
Restart Apache: **sudo systemctl restart apache2.service**

Reload Apache: **sudo systemctl reload apache2.service**

Step 2: Next, we will edit the **ports.conf**. Run the following command to open the file in the editor.

```
$ sudo nano /etc/apache2/port.conf
```

Since we want our server to have the host-only IP address, we will do the following edits:



```
GNU nano 2.9.3 ports.conf

# If you just change the port or add more ports here, you will likely also
# have to change the VirtualHost statement in
# /etc/apache2/sites-enabled/000-default.conf

Listen 192.168.56.2:80

<IfModule ssl_module>
    Listen 192.168.56.2:443
</IfModule>

<IfModule mod_gnutls.c>
    Listen 192.168.56.2:443
</IfModule>

# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
```

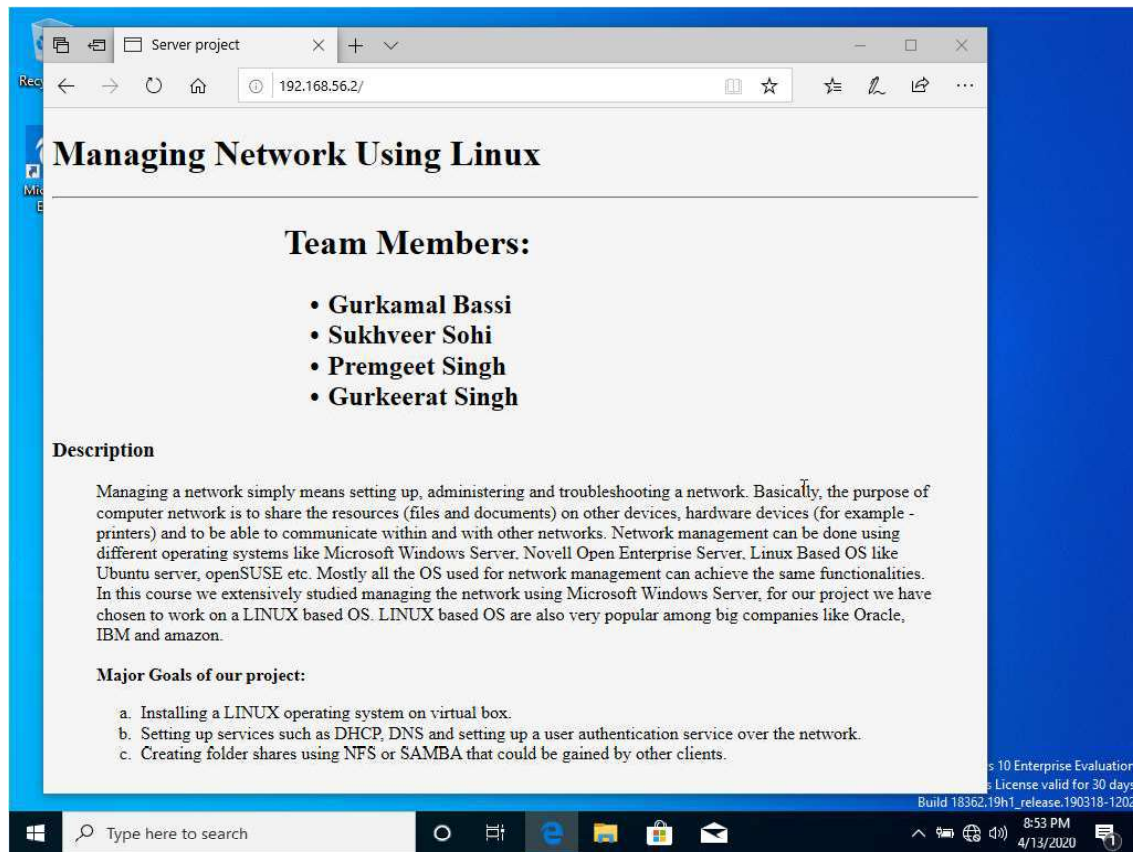
Step 3: Now, let's restart our server. Run the following:

```
$ sudo systemctl restart apache2.service
```

Step 4: Now let's make sure that our **firewall** is configured to allow traffic on port 80. Use the following command.

```
$ sudo ufw allow 'Apache'
```

Step 5: Now, Open the **windows 10 client machine**. Open the Edge Browser and put the IP address of the Apache Server. The following webpage will show up.



Our Apache Server is Up and Running!!