Technological Institute of the Philippines Manila

CIT401 - Systems Administration and Maintenance

Names	Panayas, Sharmaine R.
Section	IT41S3

Instructions:

- 1. Meet as a group and perform the given task.
- 2. Put your answer on the number (marked as RED) asking for an output.
- 3. Do not modify the format of this document for easier checking.

Tasks:

- A. Installing the LAMP
 - 1. Issue the command for the Apache
 - sudo apt install apache2
 - sudo ufw app list
 - 2. Issue the command for MySQL
 - sudo apt install mysql-server
 - 3. Issue the command for PHP
 - sudo apt install php libapache2-mod-php php-mysql
- B. Configuring the IP address
- 1. Follow the link below on how to set static IP address in your Ubuntu server. https://technologyrss.com/how-to-configure-static-ip-address-on-ubuntu-21-04-server/

Step #01: Check server version using below command.

```
lsb release -a && ip r
```

```
sharmainepanayas@sharmaine:~$ lsb_release –a && ip r
No LSB modules are available.
Distributor ID: Ubuntu
Description: Ubuntu 22.04.1 LTS
Release: 22.04
Codename: jammy
default via 192.168.1.1 dev enp0s3 proto dhcp src 192.168.1.9 metric 100
192.168.1.0/24 dev enp0s3 proto kernel scope link src 192.168.1.9 metric 100
192.168.1.1 dev enp0s3 proto dhcp scope link src 192.168.1.9 metric 100
sharmainepanayas@sharmaine:~$
```

Step #02: Configure static ip address on Ubuntu 21.04 server.

sudo vi /etc/netplan/00-installer-config.yaml

```
# This is the network config written by 'subiquity'
network:
    ethernets:
        eth0:
            dhcp4: no
        enp0s3:
            dhcp4: no
            addresses: [192.168.1.9/16]
            gateway4: 192.254.254
            nameservers:
             addresses: [8.8.8.8, 8.8.4.4]
    version: 2
```

For the IP address I used my ubuntu IP address. To show the ubuntu IP address I run the code ifconfig -a

```
lo VM guests are running outdated hypervisor (qemu) binaries on this host.
sharmainepanayas@sharmaine:~$ ifconfig −a
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 192.168.1.9 netmask 255.255.255.0 broadcast 192.1<u>6</u>8.1.255
        inet6 2001:4451:81ec:d300:a00:27ff:fed1:c9b8 prefixlen 64 scopeid 0x0<global>inet6 fe80::a00:27ff:fed1:c9b8 prefixlen 64 scopeid 0x20<link> ether 08:00:27:d1:c9:b8 txqueuelen 1000 (Ethernet)
        RX packets 5262 bytes 2496872 (2.4 MB)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 2137 bytes 179522 (179.5 KB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
        inet 127.0.0.1 netmask 255.0.0.0
        inet6 ::1 prefixlen 128 scopeid 0x10<host>
        loop txqueuelen 1000 (Local Loopback)
        RX packets 96 bytes 7892 (7.8 KB)
        RX errors 0 dropped 0 overruns 0
        TX packets 96 bytes 7892 (7.8 KB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
sharmainepanayas@sharmaine:~$
```

netplan apply

```
"/etc/netplan/00-installer-config.yam1" 12L, 265B written sharmainepanayas@sharmaine:~$ sudo netplan apply

*** (generate:1213): WARNING **: 15:21:08.419: `gateway4` has been deprecated, use default routes ins tead.

See the 'Default routes' section of the documentation for more details.

*** (process:1211): WARNING **: 15:21:08.897: `gateway4` has been deprecated, use default routes instead.

See the 'Default routes' section of the documentation for more details.
```

2. On my copy of VM after setting the static IP I have the following:

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
sharmainepanayas@sharmaine:~$ ifconfig –a
         flags<u>=4163/UP_BROAD</u>CAST,RUNNING,MULTICAST> mtu 1500
inet <mark>192.168.1.9 n</mark>etmask 255.255.255.0 broadcast 192.168.1.255
enpOs3: flags
         inet6 2001:4451:81ec:d300:a00:27ff:fed1:c9b8 prefixlen 64 scopeid 0x0<global>
inet6 fe80::a00:27ff:fed1:c9b8 prefixlen 64 scopeid 0x20<link>
         ether 08:00:27:d1:c9:b8 txqueuelen 1000 (Ethernet)
         RX packets 5262 bytes 2496872 (2.4 MB)
         RX errors 0 dropped 0 overruns 0 frame 0
         TX packets 2137 bytes 179522 (179.5 KB)
         TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
         inet 127.0.0.1 netmask 255.0.0.0
         inet6 ::1 prefixlen 128 scopeid 0x10<host>
         loop txqueuelen 1000 (Local Loopback)
         RX packets 96 bytes 7892 (7.8 KB)
         RX errors 0 dropped 0 overruns 0
         TX packets 96 bytes 7892 (7.8 KB)
         TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
sharmainepanayas@sharmaine:~$
```

Figure 1.Static IP is set to the Ubuntu VM.

The IP that I set in my Ubuntu is 192.168.1.9 and my desktop is 192.168.1.5. To validate that my desktop pc can communicate with the Ubuntu server, I will issue a ping command and there should be a reply.

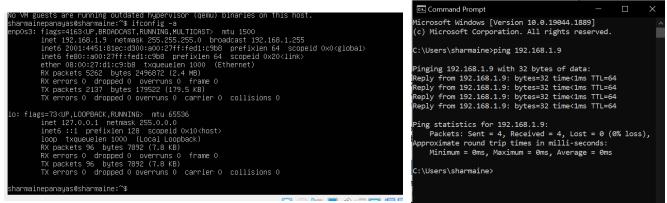


Figure 2. Issuing ping command from PC to Ubuntu server.

This way we can access the website that we will be deploying outside the Ubuntu server.

3. Provide a screenshot of your output like Figure 2.

4. Open a browser on your PC and access the test website by typing on the URL http://192.167.245.138 or replace it with your own IP address. The output will be like this:

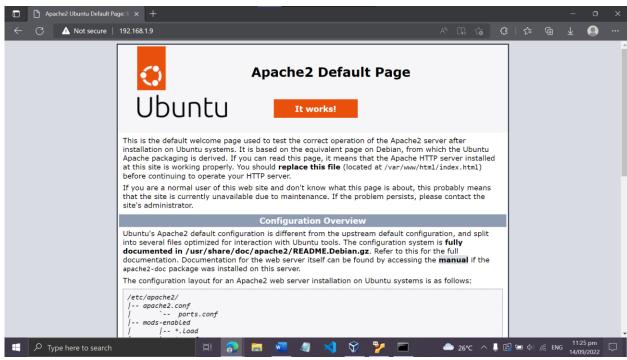


Figure 3. Default Ubuntu Apache web page.

5. Put your screenshot below including the URL to see that you can access your server on your PC browser.

```
# This is the network config written by 'subiquity'
network:
   ethernets:
   eth0:
     dhcp4: no
   enp0s3:
     dhcp4: no
   addresses: [192.168.1.9/16]
     gateway4: 192.254.254.254
   nameservers:
   addresses: [8.8.8.8, 8.8.4.4]
   version: 2
```

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
sharmainepanayas@sharmaine:~$ ifconfig -a
enp0s3: flags=4163/UP_BROODCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.1.9 netmask 255.255.255.0 broadcast 192.168.1.255
    inet6 2001:4451:81ec:d300:a00:27ff:fed1:c9b8 prefixlen 64 scopeid 0x0<global>
    inet6 fe80::a00:27ff:fed1:c9b8 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:d1:c9:b8 txqueuelen 1000 (Ethernet)
    RX packets 5262 bytes 2496872 (2.4 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 2137 bytes 179522 (179.5 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

10: flags=73<UP_LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.00
    inet6::1 prefixlen 128 scopeid 0x10<hoodshoot>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 96 bytes 7892 (7.8 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 96 bytes 7892 (7.8 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

sharmainepanayas@sharmaine:~$
```

My Ubuntu static IP is 192.168.1.9

My Desktop IP is 192.168.1.5

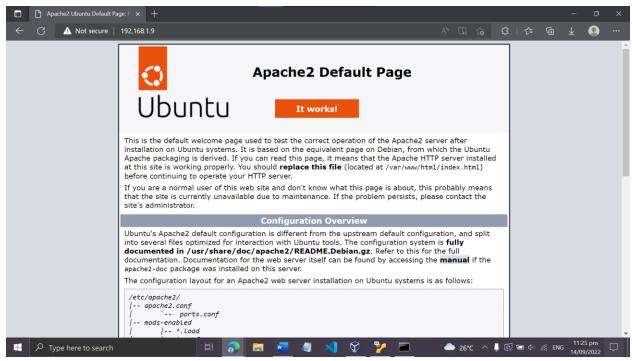
```
Microsoft Windows [Version 10.0.19044.1889]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sharmaine>ping 192.168.1.9

Pinging 192.168.1.9 with 32 bytes of data:
Reply from 192.168.1.9: bytes=32 time<1ms TTL=64
Ping statistics for 192.168.1.9:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\sharmaine>
```

To validate that my desktop pc can communicate with the Ubuntu server, I will issue a ping command and there should be a reply.



This is the output when I entered the Ubuntu IP address in my browser.

Honor Pledge

"I affirm that I have not given or received any unauthorized help on this assignment and that this work is my own."

Panayas, Sharmaine R.