

LAPORAN PRAKTIKUM

Modul 3

APACHE



Disusun Oleh:

Shelo Mita Yuri Agustyan (31)

Program Keahlian:

Teknik Komputer dan Jaringan

SMK TELKOM MALANG

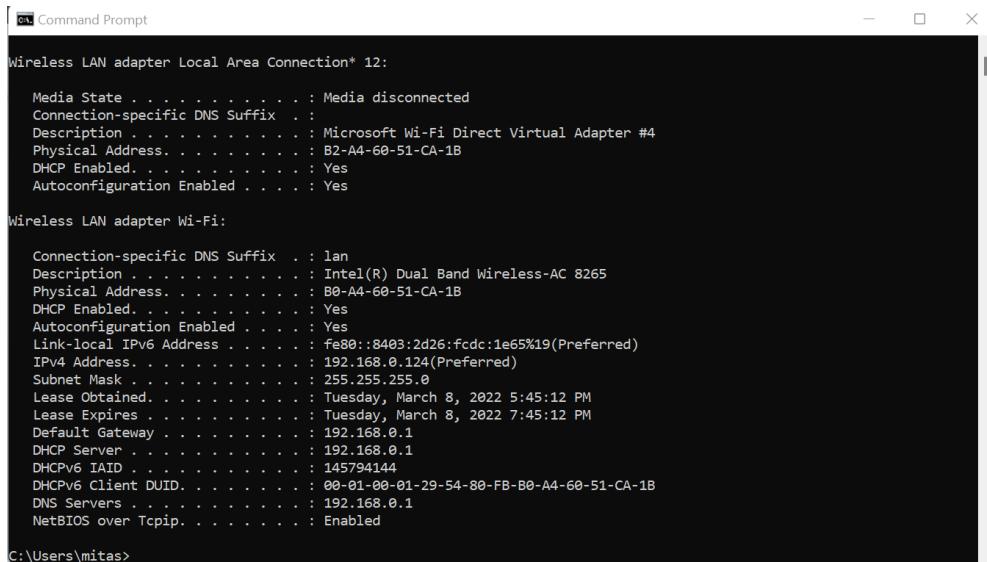
MARET 2020

Judul:

Apache

Hasil Tugas Praktikum:

1. Cek IP dengan cara buka cmd lalu ketik “ipconfig/all”



```
Command Prompt

Wireless LAN adapter Local Area Connection* 12:

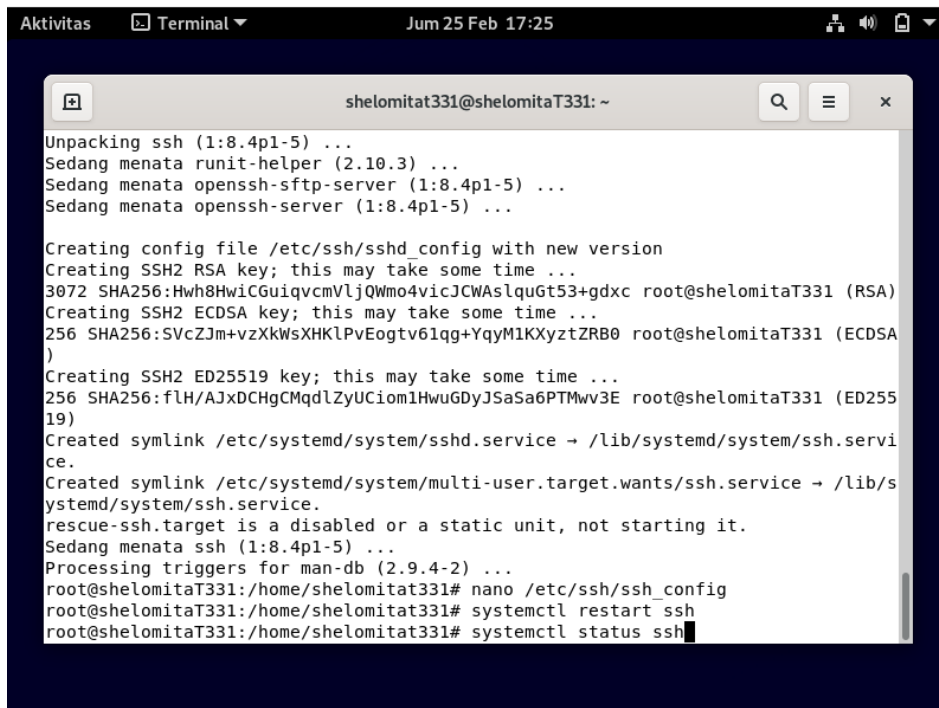
    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : 
    Description . . . . . : Microsoft Wi-Fi Direct Virtual Adapter #4
    Physical Address. . . . . : B2-A4-60-51-CA-1B
    DHCP Enabled. . . . . : Yes
    Autoconfiguration Enabled . . . . : Yes

Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix  . : lan
    Description . . . . . : Intel(R) Dual Band Wireless-AC 8265
    Physical Address. . . . . : B0-A4-60-51-CA-1B
    DHCP Enabled. . . . . : Yes
    Autoconfiguration Enabled . . . . : Yes
    Link-local IPv6 Address . . . . . : fe80::8403:2d26:fcde:1e65%19(Preferred)
    IPv4 Address. . . . . : 192.168.0.124(Preferred)
    Subnet Mask . . . . . : 255.255.255.0
    Lease Obtained. . . . . : Tuesday, March 8, 2022 5:45:12 PM
    Lease Expires . . . . . : Tuesday, March 8, 2022 7:45:12 PM
    Default Gateway . . . . . : 192.168.0.1
    DHCP Server . . . . . : 192.168.0.1
    DHCPv6 IAID . . . . . : 145794144
    DHCPv6 Client DUID. . . . . : 00-01-00-01-29-54-80-FB-B0-A4-60-51-CA-1B
    DNS Servers . . . . . : 192.168.0.1
    NetBIOS over Tcpip. . . . . : Enabled

C:\Users\mitas>
```

2. Cek status ssh dengan cara ketik “systemctl status ssh”



```
Aktivitas Terminal Jun 25 Feb 17:25

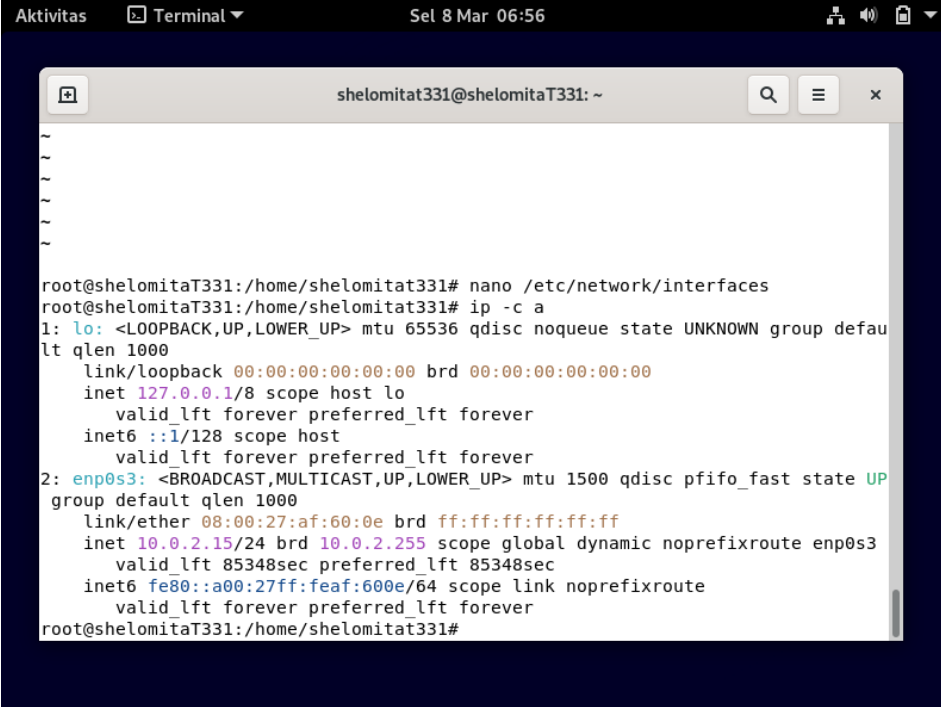
shelomitat331@shelomitaT331: ~

Unpacking ssh (1:8.4p1-5) ...
Sedang menata runit-helper (2.10.3) ...
Sedang menata openssh-sftp-server (1:8.4p1-5) ...
Sedang menata openssh-server (1:8.4p1-5) ...

Creating config file /etc/ssh/sshd_config with new version
Creating SSH2 RSA key; this may take some time ...
3072 SHA256:Hwh8HwiCGuiqvcmljQWmo4vicJCWAslqu6t53+gdxc root@shelomitaT331 (RSA)
Creating SSH2 ECDSA key; this may take some time ...
256 SHA256:SVcZJm+vzXkWsXHKLPvEogtv61qg+YqyM1KXyztZR80 root@shelomitaT331 (ECDSA)
Creating SSH2 ED25519 key; this may take some time ...
256 SHA256:flH/AJxDCHgCMqdlZyUCiomlHwuGDyJSaSa6PTMwv3E root@shelomitaT331 (ED25519)
Created symlink /etc/systemd/system/sshd.service → /lib/systemd/system/ssh.service.
Created symlink /etc/systemd/system/multi-user.target.wants/ssh.service → /lib/systemd/system/ssh.service.
rescue-ssh.target is a disabled or a static unit, not starting it.
Sedang menata ssh (1:8.4p1-5) ...
Processing triggers for man-db (2.9.4-2) ...

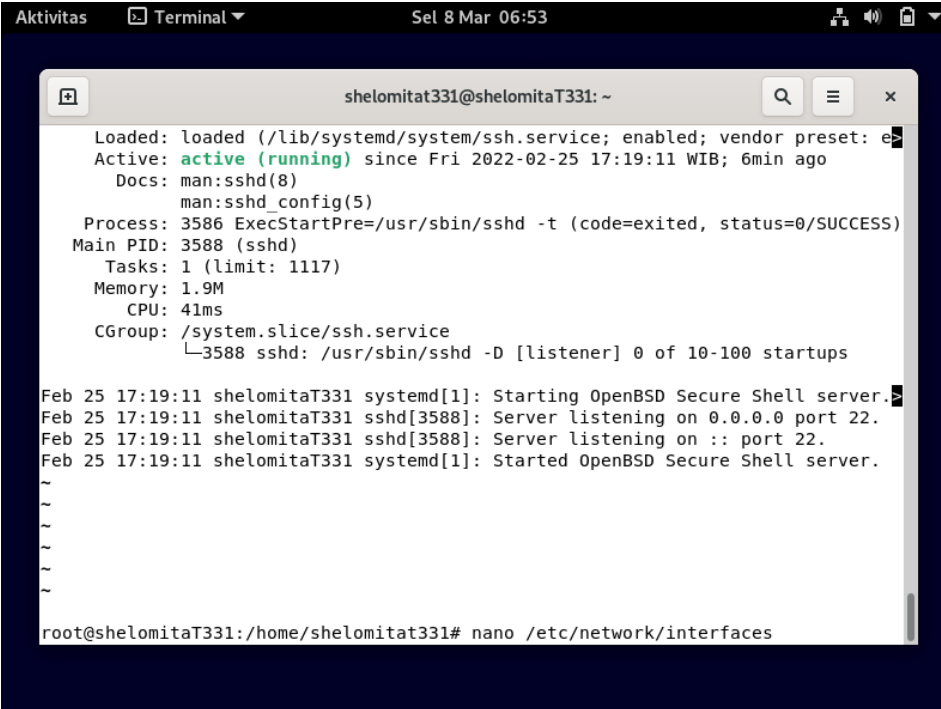
root@shelomitaT331:/home/shelomitat331# nano /etc/ssh/ssh_config
root@shelomitaT331:/home/shelomitat331# systemctl restart ssh
root@shelomitaT331:/home/shelomitat331# systemctl status ssh
```

3. Sebelum diubah ketik “ip-c a” untuk mengetahui ip broadcast kita



```
Aktivitas Terminal Sel 8 Mar 06:56
shelomitat331@shelomitaT331: ~
root@shelomitaT331:/home/shelomitat331# nano /etc/network/interfaces
root@shelomitaT331:/home/shelomitat331# ip -c a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:af:60:0e brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 85348sec preferred_lft 85348sec
    inet6 fe80::a00:27ff:feaf:600e/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
root@shelomitaT331:/home/shelomitat331#
```

4. Buka interfaces untuk mengubah ip pada debian kita dengan cara ketik “nano /etc/networking/interfaces”

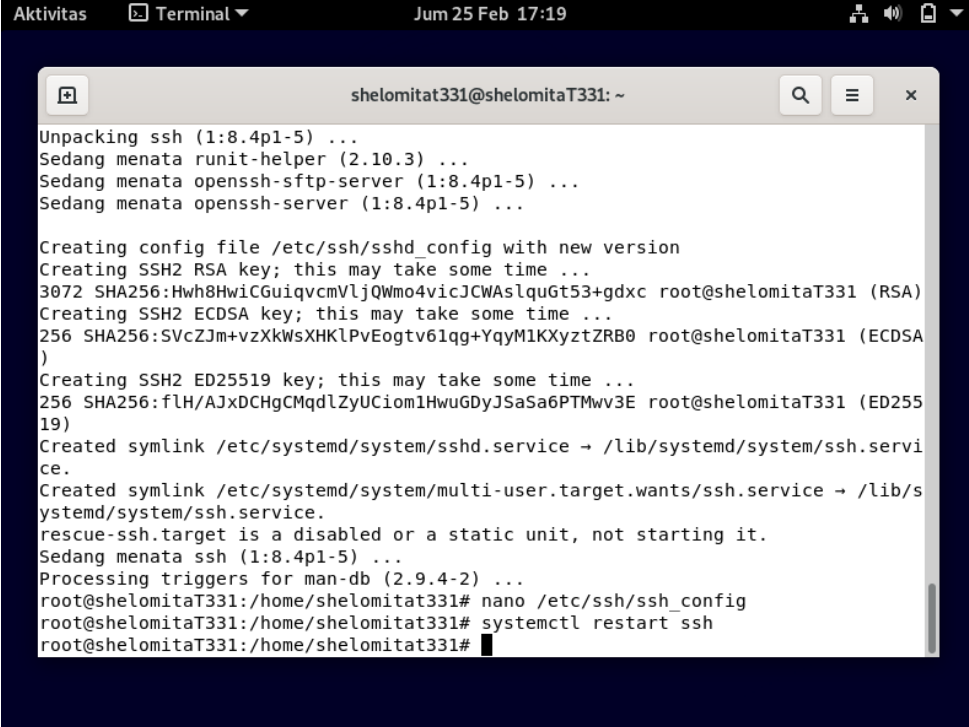


```
Aktivitas Terminal Sel 8 Mar 06:53
shelomitat331@shelomitaT331: ~
Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
Active: active (running) since Fri 2022-02-25 17:19:11 WIB; 6min ago
Docs: man:sshd(8)
     man:sshd_config(5)
Process: 3586 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
Main PID: 3588 (sshd)
Tasks: 1 (limit: 1117)
Memory: 1.9M
CPU: 41ms
CGroup: /system.slice/ssh.service
        └─3588 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups

Feb 25 17:19:11 shelomitaT331 systemd[1]: Starting OpenBSD Secure Shell server:
Feb 25 17:19:11 shelomitaT331 sshd[3588]: Server listening on 0.0.0.0 port 22.
Feb 25 17:19:11 shelomitaT331 sshd[3588]: Server listening on :: port 22.
Feb 25 17:19:11 shelomitaT331 systemd[1]: Started OpenBSD Secure Shell server.

root@shelomitaT331:/home/shelomitat331# nano /etc/networking/interfaces
```

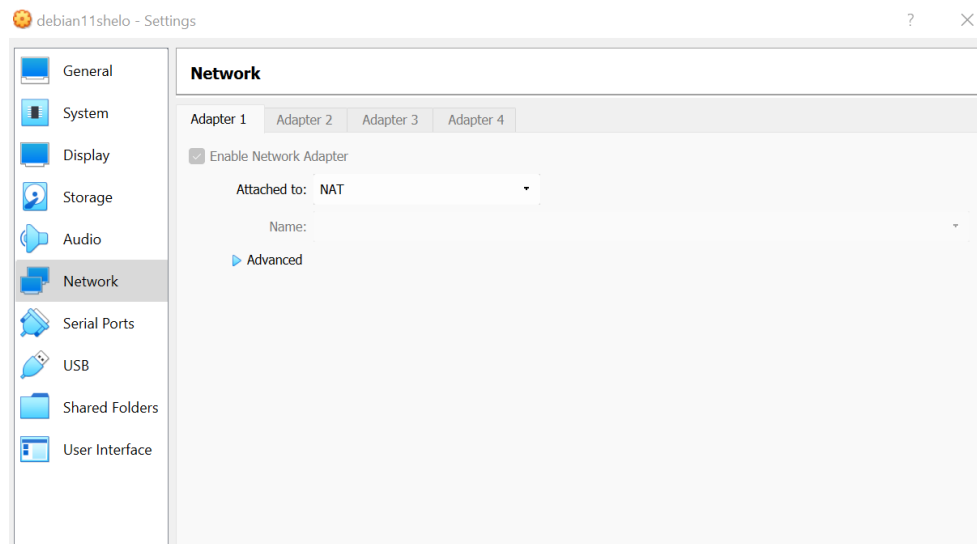
5. Setelah berhasil mengubah ip pada debian kita lalu kita restart dengan cara ketik “systemctl restart networking”



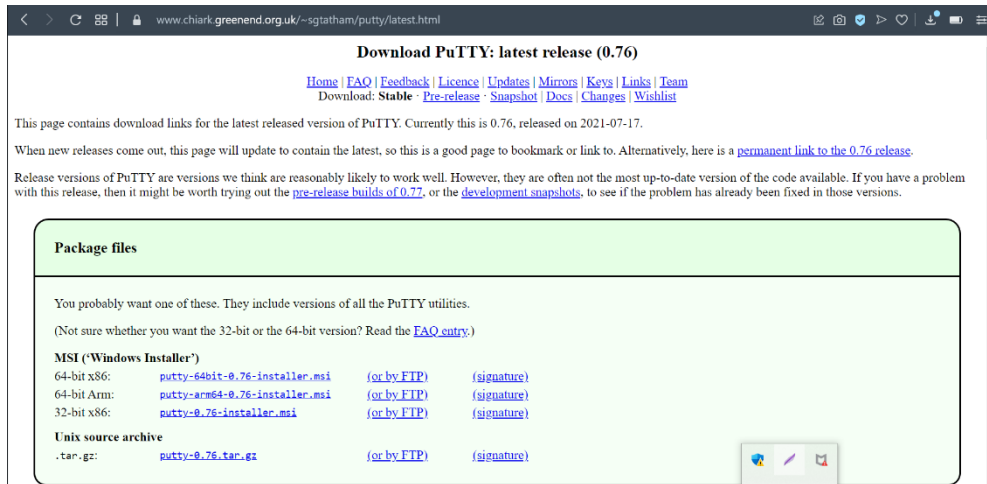
```
Aktivitas Terminal Jum 25 Feb 17:19
shelomitat331@shelomitaT331: ~
Unpacking ssh (1:8.4p1-5) ...
Sedang menata runit-helper (2.10.3) ...
Sedang menata openssh-sftp-server (1:8.4p1-5) ...
Sedang menata openssh-server (1:8.4p1-5) ...

Creating config file /etc/ssh/sshd_config with new version
Creating SSH2 RSA key; this may take some time ...
3072 SHA256:Hwh8HwiCGuiqvcmlVljqWmo4vicJCWAslquGt53+gdx root@shelomitaT331 (RSA)
Creating SSH2 ECDSA key; this may take some time ...
256 SHA256:SVcZJm+vzXkwsXHKLPvEogtv61qg+YqyM1KXyztZR80 root@shelomitaT331 (ECDSA)
Creating SSH2 ED25519 key; this may take some time ...
256 SHA256:flH/AJxDCHgCMqdlZyUCiomlHwuGDyJSaSa6PTMwv3E root@shelomitaT331 (ED25519)
Created symlink /etc/systemd/system/ssh.service → /lib/systemd/system/ssh.service.
Created symlink /etc/systemd/system/multi-user.target.wants/ssh.service → /lib/systemd/system/ssh.service.
rescue-ssh.target is a disabled or a static unit, not starting it.
Sedang menata ssh (1:8.4p1-5) ...
Processing triggers for man-db (2.9.4-2) ...
root@shelomitaT331:/home/shelomitat331# nano /etc/ssh/ssh_config
root@shelomitaT331:/home/shelomitat331# systemctl restart ssh
root@shelomitaT331:/home/shelomitat331#
```

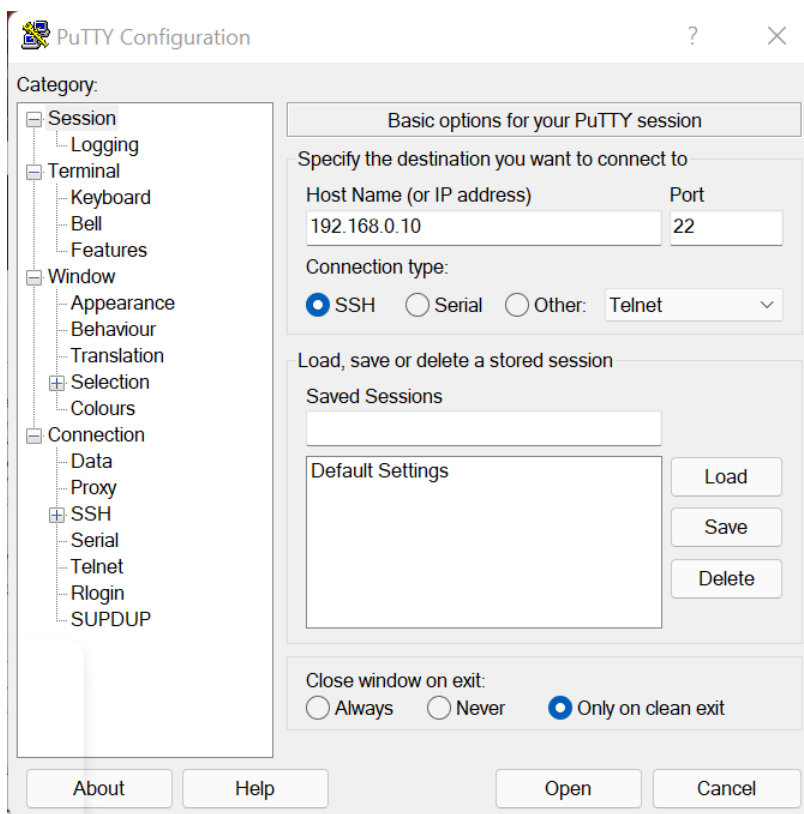
6. Setelah di restart kemudian kita ke machine lalu pilih menu setting kemudian buka network kemudian ganti menjadi Nat. Setelah berhasil mengganti restart ulang dengan cara yang sama pada bagian nomor 5



7. Kemudian download dan install putty untuk melakukan remote server melalui protokol ssh pada komputer berbasis sistem operasi windows dengan cara search pada google yaitu “Putty” lalu pilih web yang org download yang 64bit lalu install



8. Setelah berhasil menginstall putty lalu buka kemudian masukkan ip server kemudian klik open lalu accept



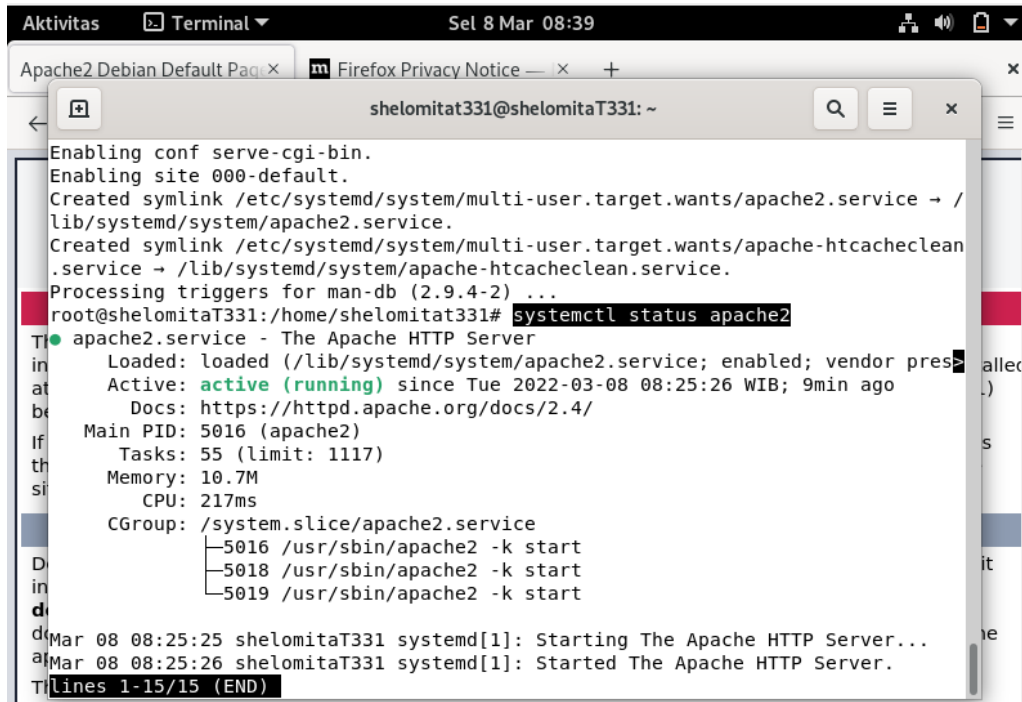
9. Kemudian login ke debian dengan cara input username dan password debian kita ke apk putty lalu masuk ke root dengan cara ketik “su” lalu masukkan password root

```
shelomitat331@shelomitaT331: ~  
login as: shelomitat331  
shelomitat331@192.168.0.10's password:  
Linux shelomitaT331 5.10.0-11-amd64 #1 SMP Debian 5.10.92-1 (2022-01-18) x86_64  
  
The programs included with the Debian GNU/Linux system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent  
permitted by applicable law.  
shelomitat331@shelomitaT331:~$ su  
Sandi:  
su: Otentikasi gagal  
shelomitat331@shelomitaT331:~$ su  
Sandi:  
su: Otentikasi gagal  
shelomitat331@shelomitaT331:~$ su  
Sandi:  
su: Otentikasi gagal  
shelomitat331@shelomitaT331:~$ su  
Sandi:  
root@shelomitaT331:/home/shelomitat331#
```

10. Kemudian kita instal apache dengan cara ketik “apt install apache2”

```
Aktivitas Terminal Sel 8 Mar 08:22  
shelomitat331@shelomitaT331: ~  
From 192.168.56.10 icmp_seq=875 Destination Host Unreachable  
From 192.168.56.10 icmp_seq=876 Destination Host Unreachable  
From 192.168.56.10 icmp_seq=877 Destination Host Unreachable  
From 192.168.56.10 icmp_seq=878 Destination Host Unreachable  
From 192.168.56.10 icmp_seq=879 Destination Host Unreachable  
From 192.168.56.10 icmp_seq=880 Destination Host Unreachable  
From 192.168.56.10 icmp_seq=881 Destination Host Unreachable  
From 192.168.56.10 icmp_seq=882 Destination Host Unreachable  
From 192.168.56.10 icmp_seq=883 Destination Host Unreachable  
^C  
--- 192.168.56.1 ping statistics ---  
886 packets transmitted, 0 received, +883 errors, 100% packet loss, time 906159  
ms  
pipe 4  
root@shelomitaT331:/home/shelomitat331# nano /etc/network/interfaces  
root@shelomitaT331:/home/shelomitat331# systemctl restart networking  
root@shelomitaT331:/home/shelomitat331# ping 192.168.0.124  
PING 192.168.0.124 (192.168.0.124) 56(84) bytes of data.  
^C  
--- 192.168.0.124 ping statistics ---  
1886 packets transmitted, 0 received, 100% packet loss, time 1930244ms  
root@shelomitaT331:/home/shelomitat331# apt install apache2
```

11. Kemudian cek status apache kita apakah sudah aktif dengan cara ketik “systemctl status apache2”



```
Aktivitas Terminal Sel 8 Mar 08:39
Apache2 Debian Default Page Firefox Privacy Notice
shelomitat331@shelomitaT331: ~
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.
Processing triggers for man-db (2.9.4-2) ...
root@shelomitaT331:/home/shelomitat331# systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2022-03-08 08:25:26 WIB; 9min ago
     Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 5016 (apache2)
    Tasks: 55 (limit: 1117)
   Memory: 10.7M
      CPU: 217ms
   CGroup: /system.slice/apache2.service
           └─5016 /usr/sbin/apache2 -k start
             └─5018 /usr/sbin/apache2 -k start
               └─5019 /usr/sbin/apache2 -k start

Mar 08 08:25:25 shelomitaT331 systemd[1]: Starting The Apache HTTP Server...
Mar 08 08:25:26 shelomitaT331 systemd[1]: Started The Apache HTTP Server.
lines 1-15/15 (END)
```

12. Kemudian kita buka apache kita di browser (firefox) pada debian lalu ketik IP server

