

# **LAPORAN PRAKTIKUM**

## **Jaringan Komputer**

### **Praktikum 2**



Nama : Ghoffar Abdul Ja'far

NIM : 2341720035

Kelas : 2F

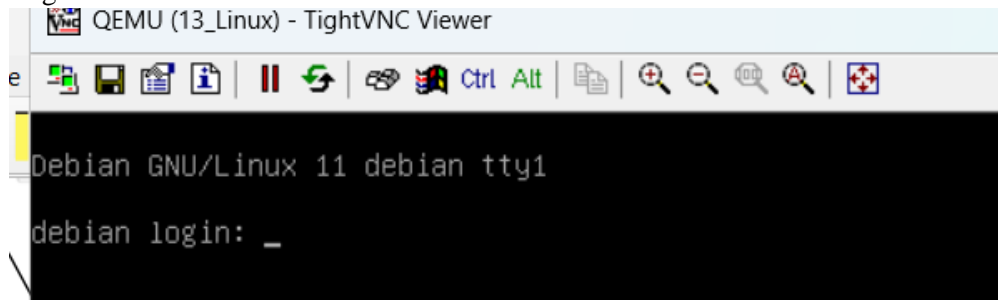
**JURUSAN TEKNOLOGI INFORMASI**

**POLITEKNIK NEGERI MALANG**

**2023/2024**

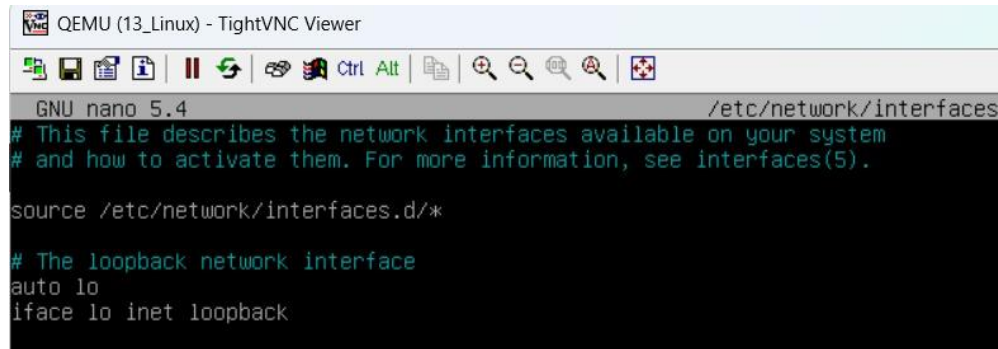
## 1. Pengaturan Alamat IP Secara Dinamis

### a. Login



```
QEMU (13_Linux) - TightVNC Viewer
Debian GNU/Linux 11 debian tty1
debian login: _
```

### b. nano /etc/network/interfaces

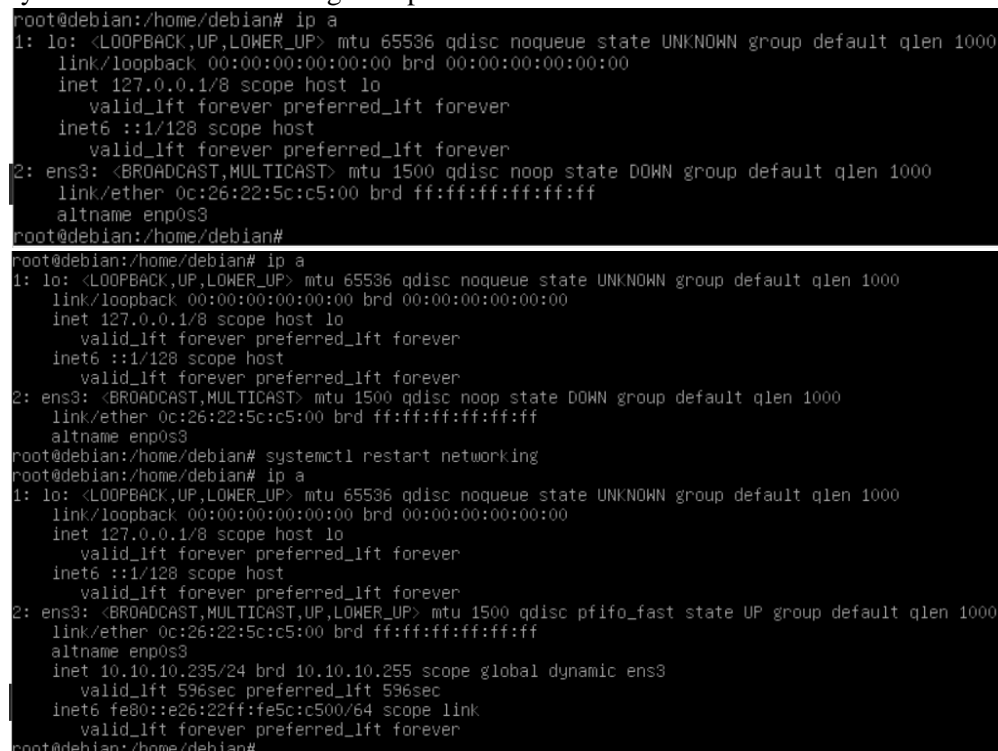


```
QEMU (13_Linux) - TightVNC Viewer
GNU nano 5.4 /etc/network/interfaces
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

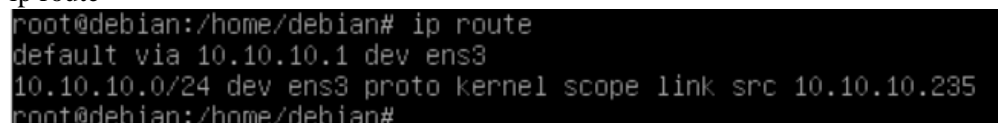
# The loopback network interface
auto lo
iface lo inet loopback
```

### c. systemctl restart networking dan ip a



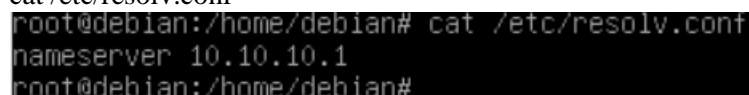
```
root@debian:/home/debian# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens3: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether 0c:26:22:5c:c5:00 brd ff:ff:ff:ff:ff:ff
    altname enp0s3
root@debian:/home/debian#
root@debian:/home/debian# ip 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: ens3: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether 0c:26:22:5c:c5:00 brd ff:ff:ff:ff:ff:ff
    altname enp0s3
root@debian:/home/debian# systemctl restart networking
root@debian:/home/debian# ip 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: ens3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 0c:26:22:5c:c5:00 brd ff:ff:ff:ff:ff:ff
    altname enp0s3
    inet 10.10.10.235/24 brd 10.10.10.255 scope global dynamic ens3
        valid_lft 596sec preferred_lft 596sec
    inet6 fe80::e26:22ff:fe5c:c500/64 scope link
        valid_lft forever preferred_lft forever
root@debian:/home/debian#
```

### d. ip route



```
root@debian:/home/debian# ip route
default via 10.10.10.1 dev ens3
10.10.10.0/24 dev ens3 proto kernel scope link src 10.10.10.235
root@debian:/home/debian#
```

### e. cat /etc/resolv.conf

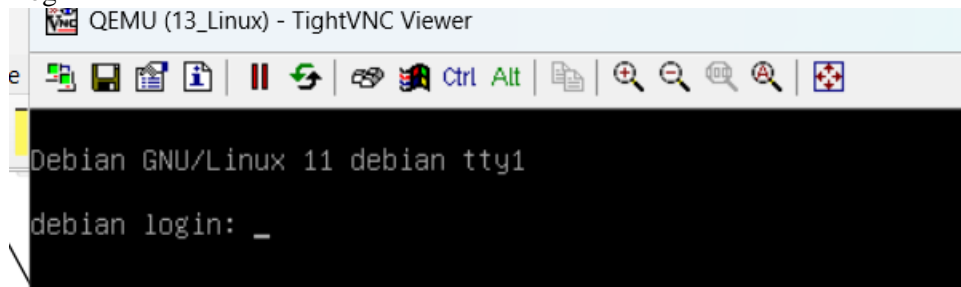


```
root@debian:/home/debian# cat /etc/resolv.conf
nameserver 10.10.10.1
root@debian:/home/debian#
```

## 2. Pengaturan Alamat IP Secara Statis

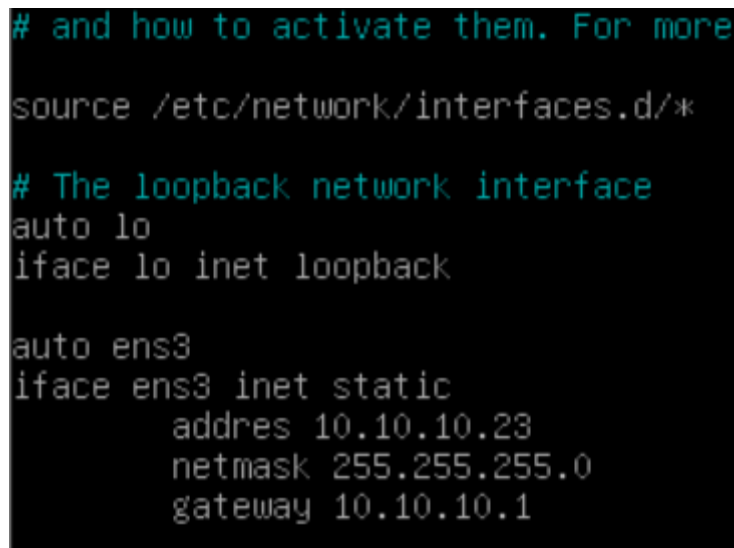
- Linux

- Login



```
Debian GNU/Linux 11 debian tty1
debian login: _
```

- nano /etc/network/interfaces

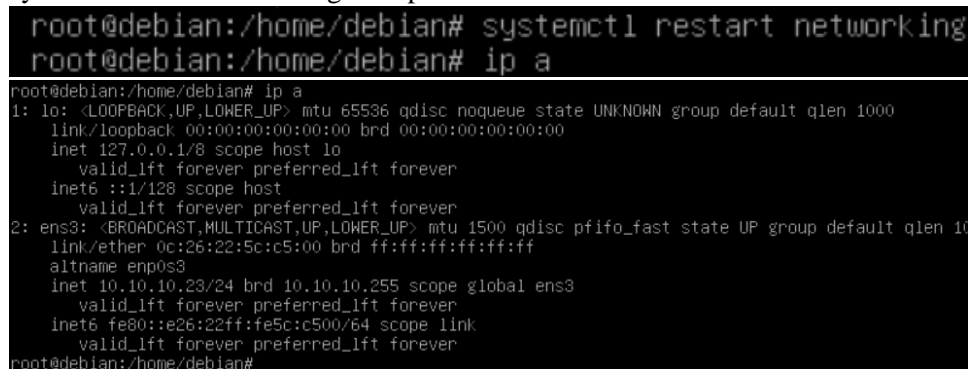


```
# and how to activate them. For more
source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

auto ens3
iface ens3 inet static
    address 10.10.10.23
    netmask 255.255.255.0
    gateway 10.10.10.1
```

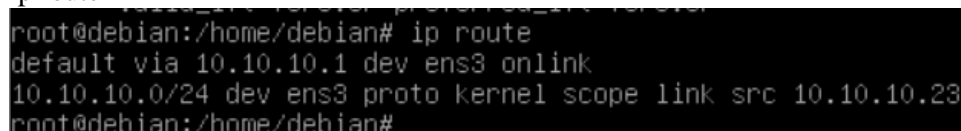
- systemctl restart networking dan ip a



```
root@debian:/home/debian# systemctl restart networking
root@debian:/home/debian# ip a

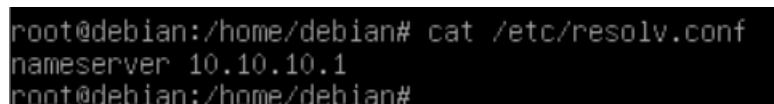
root@debian:/home/debian# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 0c:26:22:5c:c5:00 brd ff:ff:ff:ff:ff:ff
    altname enp0s3
    inet 10.10.10.23/24 brd 10.10.10.255 scope global ens3
        valid_lft forever preferred_lft forever
    inet6 fe80::e26:22ff:fe5c:c500/64 scope link
        valid_lft forever preferred_lft forever
root@debian:/home/debian#
```

- ip route



```
root@debian:/home/debian# ip route
default via 10.10.10.1 dev ens3 onlink
10.10.10.0/24 dev ens3 proto kernel scope link src 10.10.10.23
root@debian:/home/debian#
```

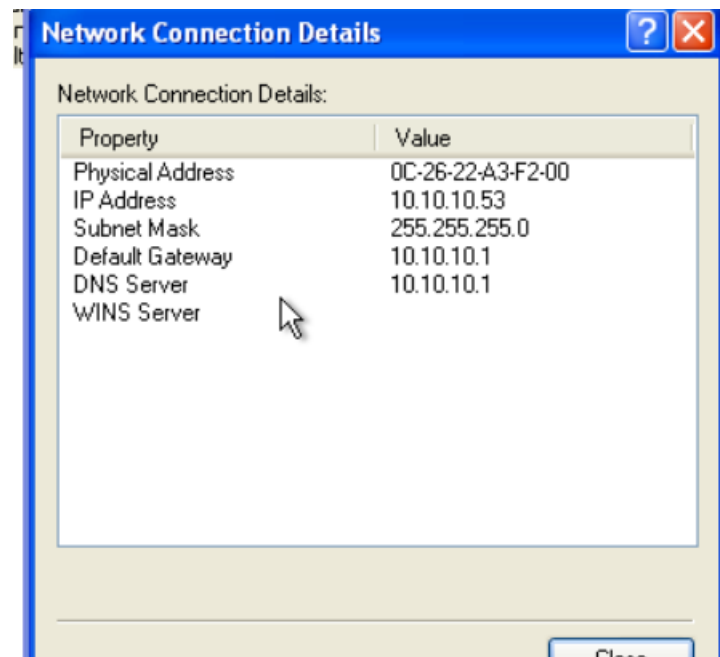
- cat /etc/resolv.conf



```
root@debian:/home/debian# cat /etc/resolv.conf
nameserver 10.10.10.1
root@debian:/home/debian#
```

- Windows

- Detail



- IP

