

LAPORAN PRAKTIKUM

Jaringan Komputer

Praktikum 2



Nama : Ghoffar Abdul Ja'far

NIM : 2341720035

Kelas : 2F

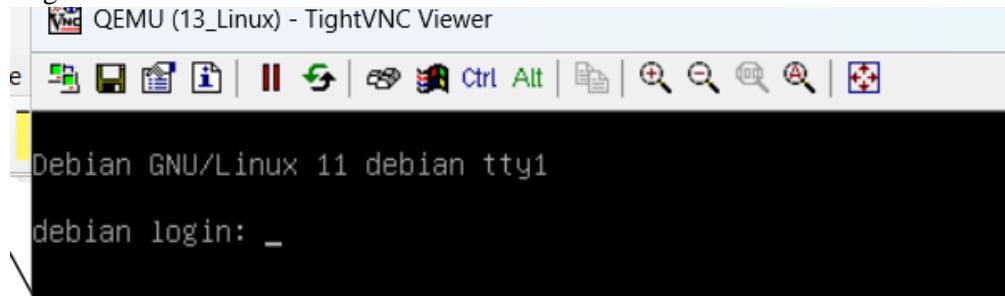
JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

2023/2024

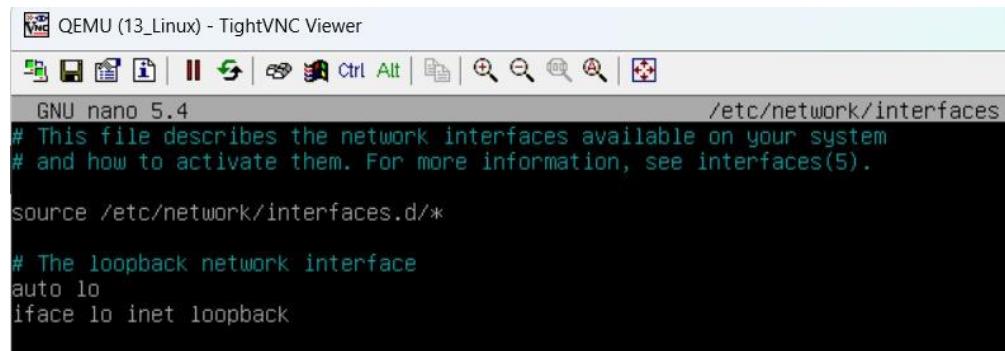
1. Pengaturan Alamat IP Secara Dinamis

- a. Login



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

- b. nano /etc/network/interfaces

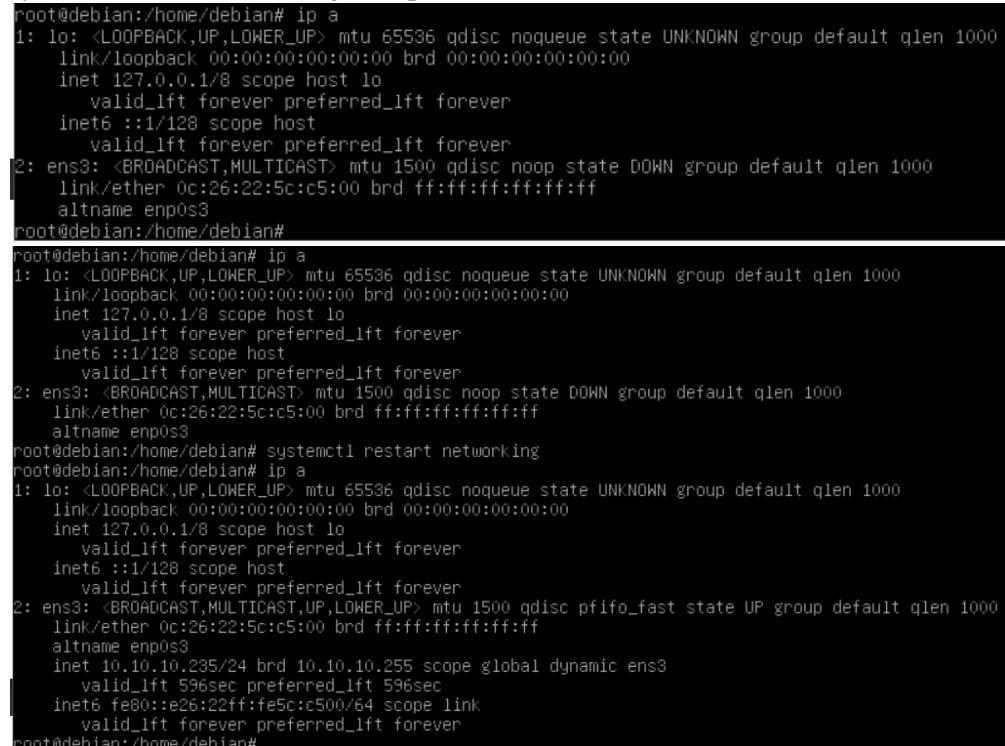


```
QEMU (13_Linux) - TightVNC Viewer
GNU nano 5.4 /etc/network/interfaces
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

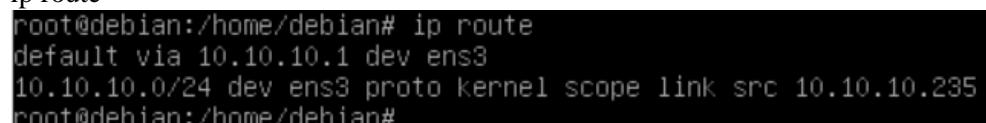
# The loopback network interface
auto lo
iface lo inet loopback
```

- c. systemctl restart networking dan ip a



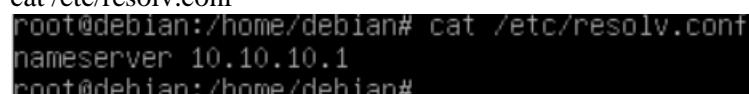
```
root@debian:/home/debian# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
        inet 127.0.0.1/8 scope host lo
            valid_lft forever preferred_lft forever
        inet6 ::1/128 scope 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: <NO-CARRIER,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

- o Login

QEMU (13_Linux) - TightVNC Viewer

- `nano /etc/network/interfaces`

```
# and how to activate them. For more
# information, see /usr/share/doc/networking-
# guide/html/chapter1.html

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#
```

- o in 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

Network Connection Details	
Property	Value
Physical Address	0C-26-22-A3-F2-00
IP Address	10.10.10.53
Subnet Mask	255.255.255.0
Default Gateway	10.10.10.1
DNS Server	10.10.10.1
WINS Server	

o IP

Internet Protocol (TCP/IP) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Obtain an IP address automatically
 Use the following IP address:

IP address:	10 . 10 . 10 . 53
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	10 . 10 . 10 . 1

Obtain DNS server address automatically
 Use the following DNS server addresses:

Preferred DNS server:	10 . 10 . 10 . 1
Alternate DNS server:	

Advanced...

OK **Cancel**