

PRACTICUM COMPUTER NETWORKING
IDENTIFY HARDWARE NETWORK AND DYNAMIC-STATIC IP CONFIGURATION



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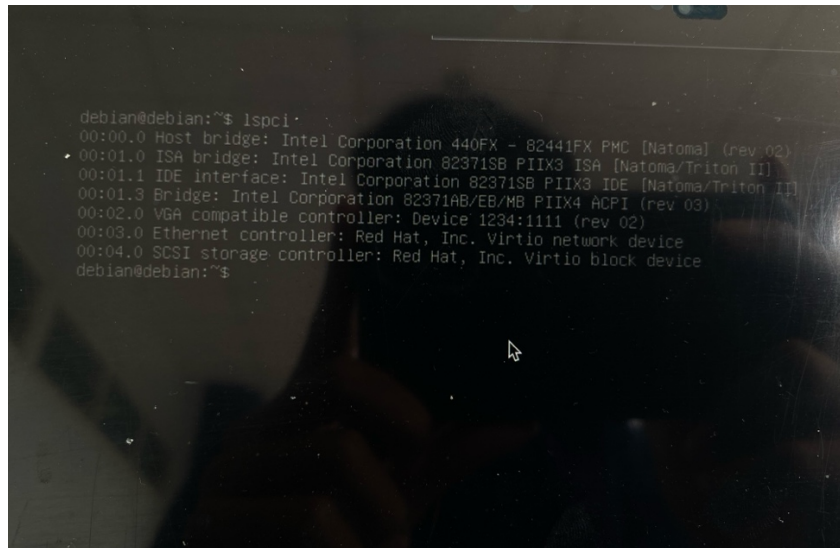
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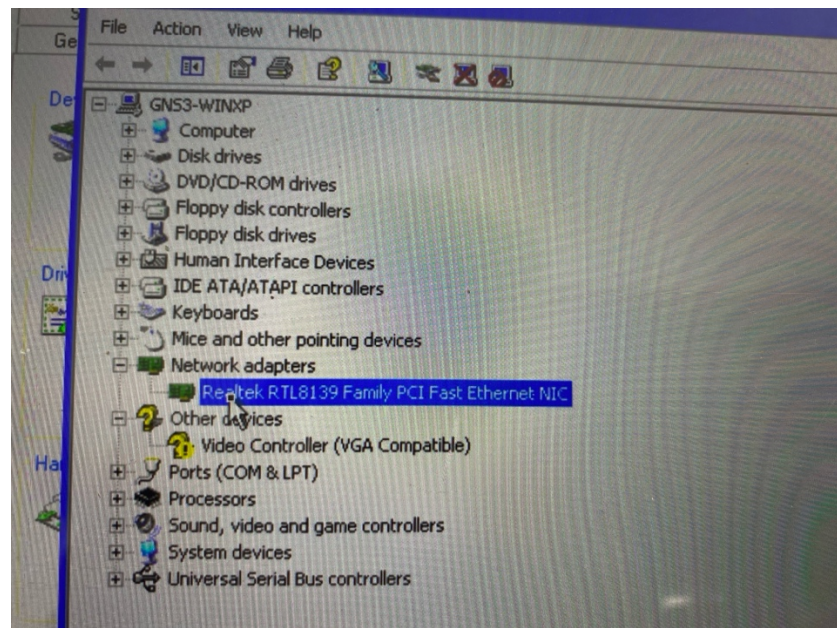
STATE POLYTECHNIC OF MALANG
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A. IDENTIFY HARDWARE NETWORKING

a) Identify in Linux OS

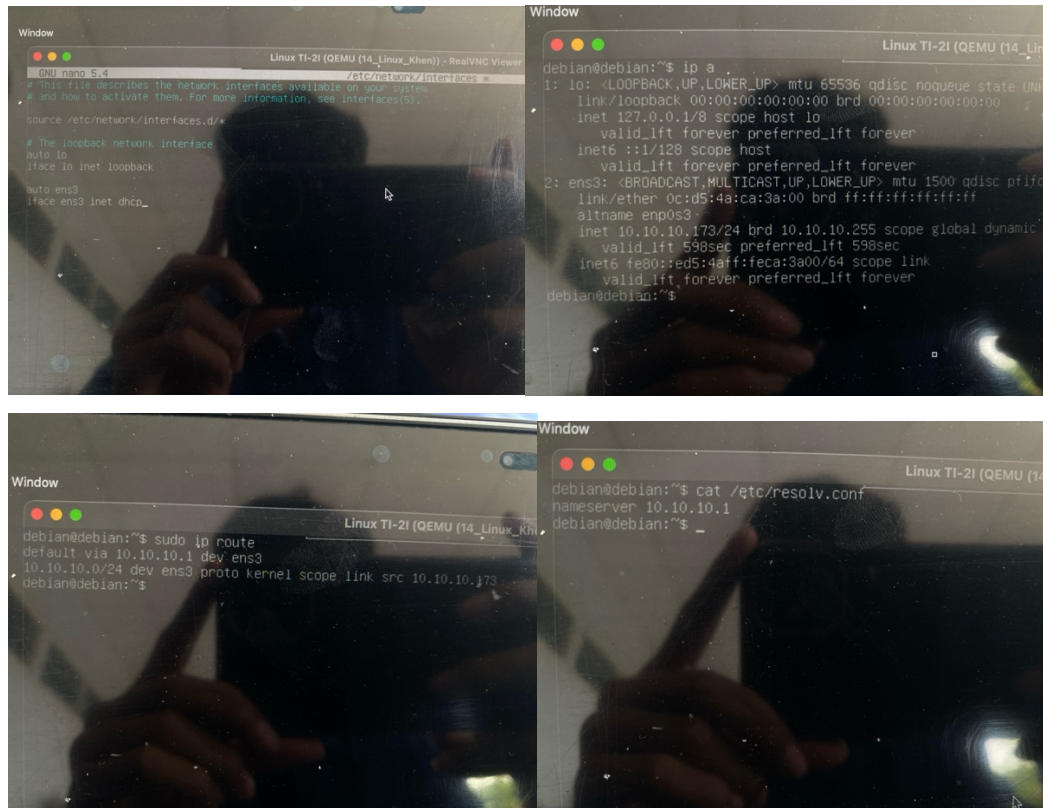


b) Identify in Windows OS

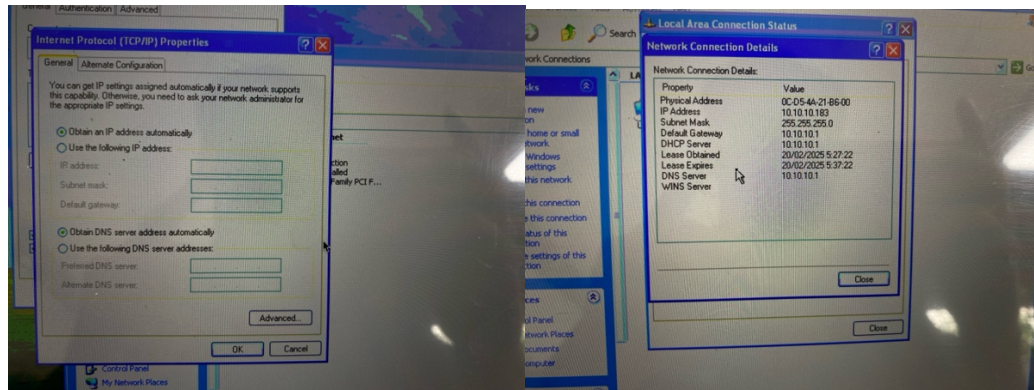


B. DYNAMIC IP CONFIGURATION

a) Configuration in Linux OS



b) Configuration in Windows OS



C. STATIC IP CONFIGURATION

a) Configuration in Linux OS

```
# 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

auto ens3
iface ens3 inet static
    address 10.10.10.24
    netmask 255.255.255.0
    gateway 10.10.10.1
```

```
debian@debian:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group
    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
    link/ether 0c:d5:4a:ca:3a:00 brd ff:ff:ff:ff:ff:ff
    altname enp0s3
    inet 10.10.10.24/24 brd 10.10.10.255 scope global ens3
        valid_lft forever preferred_lft forever
    inet6 fe80::d5:4a:ca:3a:00/64 scope link
        valid_lft forever preferred_lft forever
debian@debian:~$
```

```
debian@debian:~$ sudo ip route
default via 10.10.10.1 dev ens3 onlink
10.10.10.0/24 dev ens3 proto kernel scope link src 10.10.10.24
debian@debian:~$
```

```
debian@debian:~$ cat /etc/resolv.conf
nameserver 10.10.10.1
debian@debian:~$
```

b) Configuration in Windows OS

