

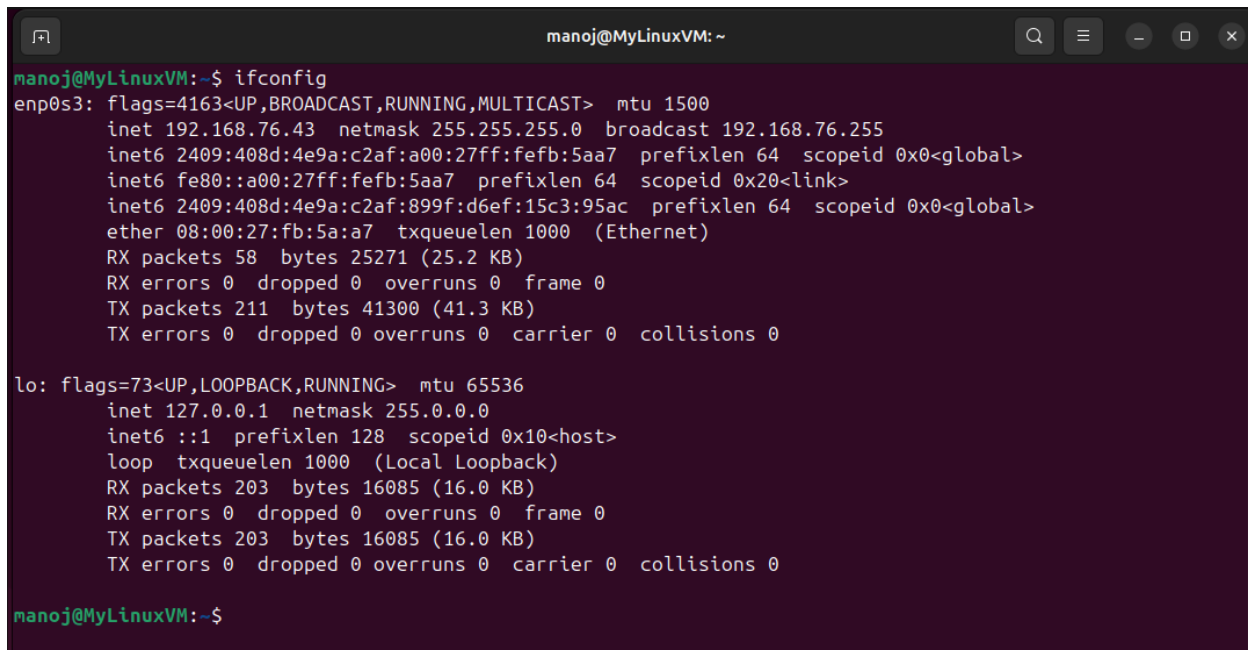
Question-8:

check iwconfig/ifconfig to understand in detail about network interfaces.

ifconfig and iwconfig in Linux

- "ifconfig" displays information about all network interfaces on a system, including their IP addresses, MAC addresses, and other configuration details
- "iwconfig" specifically displays and configures settings related to wireless network interfaces, like the network name (SSID) and channel frequency.

ifconfig:



```
manoj@MyLinuxVM:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
    inet 192.168.76.43  netmask 255.255.255.0  broadcast 192.168.76.255
    inet6 2409:408d:4e9a:c2af:a00:27ff:fe5a:5a7  prefixlen 64  scopeid 0x0<global>
    inet6 fe80::a00:27ff:fe5a:5a7  prefixlen 64  scopeid 0x20<link>
    inet6 2409:408d:4e9a:c2af:899f:d6ef:15c3:95ac  prefixlen 64  scopeid 0x0<global>
    ether 08:00:27:fb:5a:a7  txqueuelen 1000  (Ethernet)
    RX packets 58  bytes 25271 (25.2 KB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 211  bytes 41300 (41.3 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 203  bytes 16085 (16.0 KB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 203  bytes 16085 (16.0 KB)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

manoj@MyLinuxVM:~$
```

enp0s3: ethernet interface

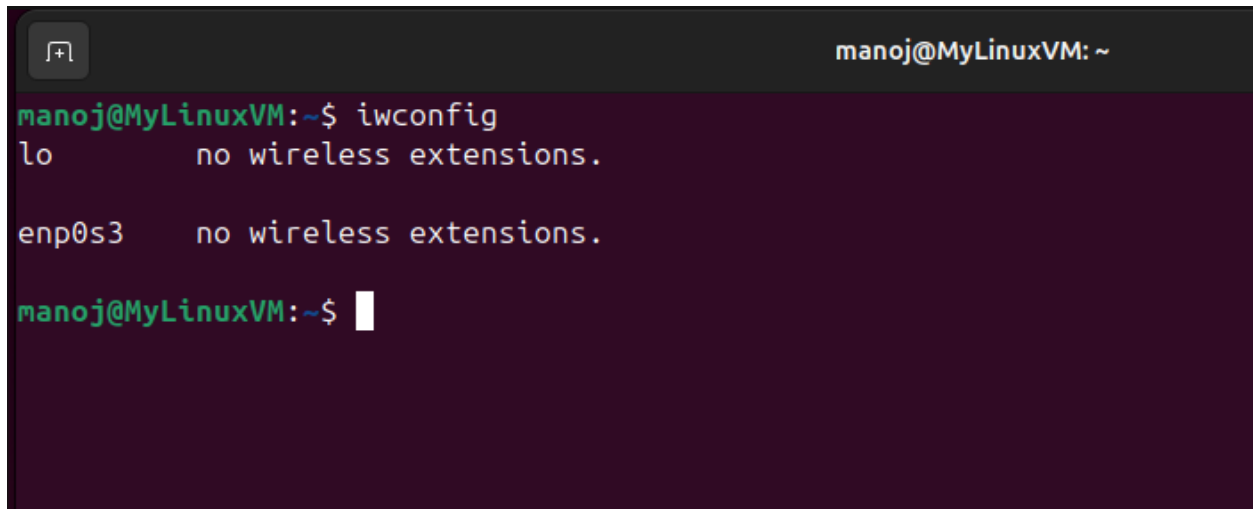
MTU - maximum transmission unit - maximum packet size - 1500 bytes

inet - Ipv4 address of the interface

ether - mac address of the interface

broadcast ip -192.168.76.255

iwconfig:

A terminal window with a dark background. The title bar at the top shows a window icon on the left and the text 'manoj@MyLinuxVM: ~' on the right. The terminal content shows the command 'iwconfig' being executed. The output consists of two lines: 'lo no wireless extensions.' and 'enp0s3 no wireless extensions.'. Below the output, the prompt 'manoj@MyLinuxVM:~\$' is followed by a white cursor bar.

```
manoj@MyLinuxVM:~$ iwconfig
lo      no wireless extensions.

enp0s3  no wireless extensions.

manoj@MyLinuxVM:~$
```

Since no wireless connections made