

LINUX NETWORKING MODULE 1 AND 2 ASSESSMENT SOLUTIONS

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8. Check `iwconfig/ifconfig` to understand in detail about network interfaces (check about Interface speed, MTU and other parameters)

```
(base) sakthi-kumar-s@sakthi-kumar-s-VirtualBox:~$ ifconfig enp0s3
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fd00::c51c:14e2:501d:c3d2 prefixlen 64 scopeid 0x0<global>
    inet6 fe80::a00:27ff:feab:97bd prefixlen 64 scopeid 0x20<link>
    inet6 fd00::a00:27ff:feab:97bd prefixlen 64 scopeid 0x0<global>
    ether 08:00:27:ab:97:bd txqueuelen 1000 (Ethernet)
    RX packets 450963 bytes 483215322 (483.2 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 142384 bytes 57138744 (57.1 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

Parameters to Note:

- **MTU:** Maximum Transmission Unit .
- **RX/TX packets and bytes:** Indicates network activity.
- **IP Address, netmask, and broadcast address.**

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    inet6 fd00::a00:27ff:feab:97bd prefixlen 64 scopeid 0x0<global>
    ether 08:00:27:ab:97:bd txqueuelen 1000 (Ethernet)
    RX packets 458870 bytes 490372835 (490.3 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 146365 bytes 58305979 (58.3 MB)
    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 11992 bytes 1438761 (1.4 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 11992 bytes 1438761 (1.4 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

[illegible]