

# Mawlana Bhashani Science And Technology University

# Lab-Report

Lab Report No: 02

Lab Report Name:Linux 02

Group member ID: IT-18019 and IT-18037

Course title: Computer Network

Date of Performance:

Date of Submission: 28-12-2020

# **Submitted by**

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Session: 2017-2018

Dept. of ICT, MBSTU

#### **Submitted To**

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**Assistant Professor** 

Dept. of ICT

MBSTU.

## 1.

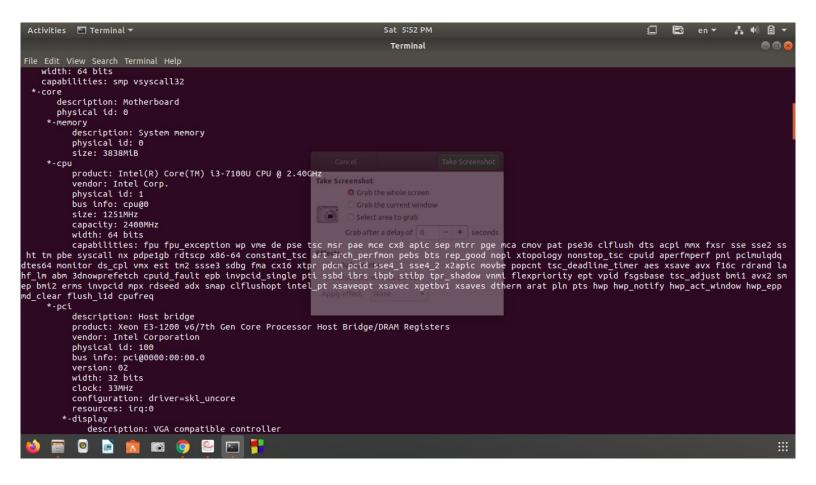
IP addresses can be reached through the public internet, and 192.168.1.1 is among them. This default IP address of most Linksys routers is one of 65,536 IP addresses in the 16-bit block of the private IPv4 address space, which includes addresses from 192.168.0.0 to 192.168.255.255

192.168.0.0 is the beginning of the private IP address range that includes all IP addresses through 192.168.255.255. This IP address is usually not used on a network, and a phone or computer wouldn't be assigned this address. However, some networks that include 192.168.0.0 in the network but do not start with this address could use it without problems for a device

## 2.Find IP & MAC

```
Terminal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               88
shamim@shamim-HP-ProBook-450-G5:~/Desktop/Linux Lab2$ lscpu
                                                                         x86_64
32-bit, 64-bit
Little Endian
Architecture:
CPU op-mode(s):
 Byte Order:
CPU(s): 4
On-line CPU(s) list: 0-3
  Thread(s) per core:
Core(s) per socket:
Socket(s):
 NUMA node(s):
Vendor ID:
CPU family:
                                                                           GenuineIntel
  Model:
                                                                           142
  Model name:
                                                                           Intel(R) Core(TM) i3-7100U CPU @ 2.40GHz
  Stepping:
  CPU MHz:
                                                                           805.921
  CPU max MHz:
                                                                           2400.0000
 CPU min MHz:
                                                                          400.0000
  BogoMIPS:
                                                                          4800.00
 Virtualization:
                                                                          VT-x
 L1d cache:
                                                                          32K
L1i cache:
                                                                          32K
 L2 cache:
                                                                          256K
 L3 cache:
                                                                           3072K
  NUMA node0 CPU(s):
                                                                          0-3
                                                                          fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall n
  Flags:
Flags:

Flow the decision of the second of the properties of the p
 shamim-hp-probook-450-g5
description: Computer
              width: 64 bits
                                                                                 svscall32
```



```
Terminal
                                                                                                                                                                             --
     configuration: driver=i915 latency=0
     resources: iomemory:1f0-1ef irq:132 memory:1ffe000000-1ffeffffff memory:e0000000-effffff ioport:4000(size=64) memory:c0000-dffff
*-generic:0
      description: Signal processing controller
      product: Xeon E3-1200 v5/E3-1500 v5/6th Gen Core Processor Thermal Subsystem
      vendor: Intel Corporation
      physical id: 4
     bus info: pci@0000:00:04.0 version: 02
     version: 02
width: 64 bits
clock: 33MHz
capabilities: cap_list
configuration: driver=proc_thermal latency=0
resources: iomemory:1f0-1ef irq:16 memory:1fff010000-1fff017fff
*-usb
     description: USB controller product: Sunrise Point-LP USB 3.0 xHCI Controller
      vendor: Intel Corporation
      physical id: 14
     bus info: pci@0000:00:14.0 version: 21
     width: 64 bits
clock: 33MHz
      capabilities: xhci bus_master cap_list
      configuration: driver=xhci_hcd latency=0
      resources: irq:125 memory:f0300000-f030ffff
*-generic:1
     description: Signal processing controller
     product: Sunrise Point-LP Thermal subsystem vendor: Intel Corporation
     physical id: 14.2
bus info: pci@0000:00:14.2
      version: 21
      width: 64 bits
     clock: 33MHz
capabilities: cap list
```

```
Terminal
File Edit View Search Terminal Help
description: Communication controller
                product: Sunrise Point-LP CSME HECI #1
                vendor: Intel Corporation
                physical id: 16
                bus info: pci@0000:00:16.0
                version: 21
                width: 64 bits clock: 33MHz
                capabilities: bus_master cap_list
configuration: driver=mei_me latency=0
                resources: iomemory:1f0-1ef irq:130 memory:1fff01d000-1fff01dfff
          *-storage
                description: SATA controller
                product: Sunrise Point-LP SATA Controller [AHCI mode]
                vendor: Intel Corporation
                physical id: 17
                bus info: pci@0000:00:17.0
                version: 21
                width: 32 bits
                clock: 66MHz
                capabilities: storage ahci_1.0 bus_master cap_list configuration: driver=ahci latency=0 resources: irq:126 memory:f0314000-f0315fff memory:f0317000-f03170ff ioport:4080(size=8) ioport:4088(size=4) ioport:4060(size=32) memory:
f0316000-f03167ff
          *-pci:0
                description: PCI bridge
                product: Sunrise Point-LP PCI Express Root Port #5 vendor: Intel Corporation
                version: Intel corporation
physical id: 1c
bus info: pci@0000:00:1c.0
version: f1
width: 32 bits
clock: 33MHz
                capabilities: pci normal_decode bus_master cap_list
                configuration: driver=pcieport
                resources: irq:122 ioport:3000(size=4096) memory:f0200000-f02fffff
```

```
Terminal
                                                                                                                                                                                             88
                     clock: 33MHz
                    capabilities: bus_master cap_list ethernet physical tp mii 10bt 10bt-fd 100bt 100bt-fd 1000bt 1000bt-fd autonegotiation configuration: autonegotiation=on broadcast=yes driver=r8169 driverversion=2.3LK-NAPI duplex=half firmware=rtl8168h-2_0.0.2 02/26/15 l
atency=0 link=no multicast=yes port=MII speed=10Mbit/s
resources: irq:16 ioport:3000(size=256) memory:f0204000-f0204fff memory:f0200000-f0203fff
          *-pci:1
                description: PCI bridge
                product: Sunrise Point-LP PCI Express Root Port #6 vendor: Intel Corporation
                physical id: 1c.5
                bus info: pci@0000:00:1c.5
version: f1
                width: 32 bits
clock: 33MHz
                capabilities: pci normal_decode bus_master cap_list configuration: driver=pcieport
                resources: irq:123 memory:f0100000-f01fffff
              *-network
                    description: Wireless interface
                    product: Dual Band Wireless-AC 3168NGW [Stone Peak]
                    vendor: Intel Corporation
                     physical id: 0
                    bus info: pci@0000:02:00.0
                     logical name: wlp2s0
                    version: 10
                    serial: 68:ec:c5:01:ec:b2
                    width: 64 bits
                    clock: 33MHz
                    capabilities: bus_master_cap_list_ethernet_physical_wireless
configuration: broadcast=yes_driver=iwlwifi_driverversion=4.15.0-128-generic_firmware=29.1044073957.0 latency=0 link=no_multicast=yes_
wireless=IEEE 802.11
                    resources: irq:131 memory:f0100000-f0101fff
          *-pci:2
                description: PCI bridge
                product: Intel Corporation
```

```
Terminal
File Edit View Search Terminal Help
wldth: 32 bits
clock: 33MHz
                capabilities: isa bus_master
               configuration: latency=0
         *-memory UNCLAIMED
               description: Memory controller
product: Sunrise Point-LP PMC
vendor: Intel Corporation
               vendor: Intel Corporation
physical id: 1f.2
bus info: pci@0000:00:1f.2
version: 21
width: 32 bits
                clock: 33MHz (30.3ns)
                configuration: latency=0
                resources: memory:f0310000-f0313fff
         *-multimedia
               description: Audio device
               product: Sunrise Point-LP HD Audio
                vendor: Intel Corporation
               physical id: 1f.3
                bus info: pci@0000:00:1f.3
                version: 21
               width: 64 bits
clock: 33MHz
               capabilities: bus_master cap_list
configuration: driver=snd_hda_intel latency=64
                resources: iomemory:1f0-1ef iomemory:1f0-1ef irq:133 memory:1fff018000-1fff01bfff memory:1fff000000-1fff00ffff
         *-serial UNCLAIMED
               description: SMBus
               product: Sunrise Point-LP SMBus
                vendor: Intel Corporation
                physical id: 1f.4
                bus info: pci@0000:00:1f.4
                version: 21
                width: 64 bits
                clock: 33MHz
```

```
Terminal
                                                                                                                                                                      88
File Edit View Search Terminal Help
=1000,dmode=500,fmode=400 state=mounted status=ready
             *-medium
                  physical id: 0
                  logical name: /dev/cdrom
logical name: /media/shamim/GPMODEM223
                  capabilities: partitioned partitioned:mac
                  configuration: mount.fstype=iso9660 mount.options=ro,nosuid,nodev,relatime,norock,check=r,map=n,blocksize=2048,uid=1000,gid=1000,dmode
=500,fmode=400 state=mounted
                *-volume:0 UNCLAIMED
                     description: Apple partition map
                     physical id: 1
                capacity: 17KiB
*-volume:1 UNCLAIMED
                     description: Apple HFS
                     vendor: Mac OS X
                     physical id: 2
                     version: 4
serial: 00000000-0000-0000-0000-0000000001000
                     size: 5472KiB
                     capacity: 5472KiB
                     capabilities: hfsplus initialized
                     configuration: checked=1904-01-01 05:53:20 created=2017-11-07 09:44:36 filesystem=hfsplus lastmountedby=10.0 modified=2017-11-27 16
 33:30 state=clean
  *-network
        description: Ethernet interface
        physical id: 1
        .
logical name: enx00a0c6000000
        serial: 00:a0:c6:00:00:00
        capabilities: ethernet physical
        configuration: broadcast=yes driver=cdc_ether driverversion=22-Aug-2005 firmware=ZTE CDC Ethernet Device ip=192.168.0.179 link=yes multicast=ye
WARNING: output may be incomplete or inaccurate, you should run this program as super-user.
shamim@shamim-HP-ProBook-450-G5:~/Desktop/Linux Lab2$ hwinfo
Command 'hwinfo' not found, but can be installed with:
```

```
*-volume:0 UNCLAIMED
                    description: Apple partition map
                    physical id: 1
                    capacity: 17KiB
               *-volume:1 UNCLAIMED
                    description: Apple HFS
                    vendor: Mac OS X
                    physical id: 2
                    version: 4
serial: 00000000-0000-0000-0000-0000000001000
                    size: 5472KiB
                    capacity: 5472KiB
                    capabilities: hfsplus initialized
                    configuration: checked=1904-01-01 05:53:20 created=2017-11-07 09:44:36 filesystem=hfsplus lastmountedby=10.0 modified=2017-11-27 16
:33:30 state=clean
  *-network
       description: Ethernet interface
       physical id: 1
       logical name: enx00a0c6000000
serial: 00:a0:c6:00:00:00
       capabilities: ethernet physical
       configuration: broadcast=yes driver=cdc_ether driverversion=22-Aug-2005 firmware=ZTE CDC Ethernet Device ip=192.168.0.179 link=yes multicast=ye
-
WARNING: output may be incomplete or inaccurate, you should run this program as super-user.
shamim@shamim-HP-ProBook-450-G5:~/Desktop/Linux Lab2$ hwinfo
Command 'hwinfo' not found, but can be installed with:
sudo apt install hwinfo
shamim@shamim-HP-ProBook-450-G5:~/Desktop/Linux Lab2$ free -m
               total
                             used
                                           free
                                                      shared buff/cache
                                                                             available
Mem:
                3838
                              1544
                                                         390
                                                                     1096
                                                                                   1665
Swap:
                2047
                                           2046
shamim@shamim-HP-ProBook-450-G5:~/Desktop/Linux Lab2$
```

Terminal

### Mac:

```
shamim@shamim-HP-ProBook-450-G5:~/Desktop/Linux Lab2$ ip link show

1: lo: <L00PBACK,UP,L0WER_UP> mtu 65536 qdisc noqueue state UNKNOWN mode DEFAULT group default qlen 1000
        link/loopback 00:00:00:00:00 brd 00:00:00:00:00

2: enp1s0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc fq_codel state DOW N mode DEFAULT group default qlen 1000
        link/ether 10:e7:c6:e4:db:06 brd ff:ff:ff:ff:

3: wlp2s0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc mq state DOWN mode DORMANT group default qlen 1000
        link/ether 68:ec:c5:01:ec:b2 brd ff:ff:ff:ff:ff

4: enx00a0c60000000: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP mode DEFAULT group default qlen 1000
        link/ether 00:a0:c6:00:00:00 brd ff:ff:ff:ff:ff:ff
shamim@shamim-HP-ProBook-450-G5:~/Desktop/Linux Lab2$
```

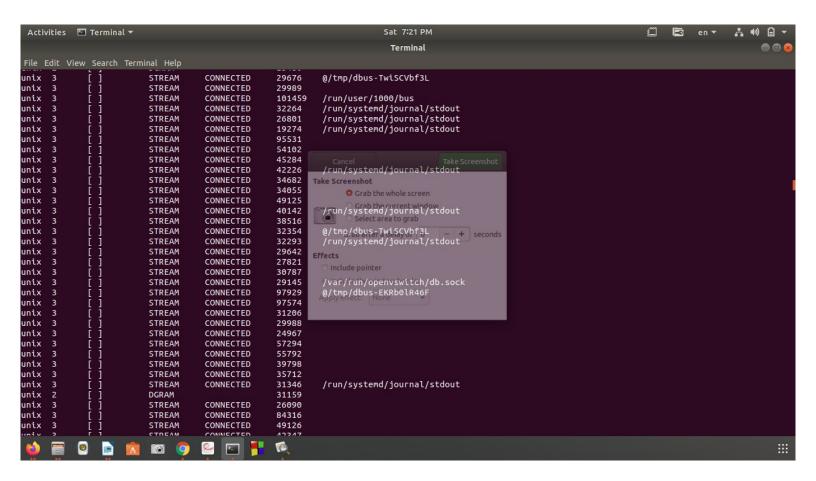
3.

```
Terminal
                                                                                                                                                                                                                            88
shamim@shamim-HP-ProBook-450-G:~/Desktop/Linux Lab2$
shamim@shamim-HP-ProBook-450-G5:~/Desktop/Linux Lab2$
Active Internet connections (w/o servers)
                                                                                     netstat
Proto Recv-Q Send-Q Local Address
                                                                                                       State
                                                                   Foreign Address
                           tcp
                                                                                                       ESTABLISHED
tcp
                              shamim-HP-ProBook:40104 234.63.190.35.bc.:https TIME_WAIT
                              shamim-HP-ProBook:60626 ec2-52-26-240-56.:https ESTABLISHED
tcp
                           0 Shamim-HP-ProBook:48970 1.80.190.35.bc.go:https TIME_WAIT
0 Shamim-HP-ProBook:56920 104.18.53.245:https ESTABLISHED
0 Shamim-HP-ProBook:40116 234.63.190.35.bc.:https TIME_WAIT
0 localhost:54650 localhost:9614 ESTABLISHED
                0
tcp
                0
tcp
                0
tcp
                           0 localhost:54314
                                                                   localhost:9614
                                                                                                       ESTABLISHED
tcp
                0
                              shamim-HP-ProBook:39180 74.125.24.188:5228
                                                                                                       ESTABLISHED
tcp
                              shamim-HP-ProBook:53708 219.220.186.35.bc:https TIME WAIT shamim-HP-ProBook:49440 104.18.2.159:https ESTABLISHE
                0
tcp
                                                                                                       ESTABLISHED
tcp
                              shamim-HP-ProBook:40112 151.101.10.217:https
                                                                                                       ESTABLISHED
tcp
                              shamim-HP-ProBook:53704 104.18.52.245:https
shamim-HP-ProBook:55302 172.67.156.77:https
                                                                                                       ESTABLISHED
tcp
                                                                                                       ESTABLISHED
                           0 shamim-HP-ProBook:53672 219.220.186.35.bc:https TIME_WAIT
0 shamim-HP-ProBook:35170 maa03s31-in-f1.1e:https CLOSE_WAIT
tcp
tcp6
                           0 shamim-HP-ProBook:49746 maa03s29-in-f1.1e:https CLOSE_WAIT
0 shamim-HP-ProBook:35172 maa03s31-in-f1.1e:https CLOSE_WAIT
tc<sub>D</sub>6
tcp6
                              localhost:9614
                                                                   localhost:54314
                                                                                                       ESTABLISHED
tcp6
                           0 localhost:9614
                                                                   localhost:54650
                                                                                                       ESTABLISHED
tcp6
                           0 shamim-HP-ProBook:37686 172.217.194.189:443
                                                                                                       ESTABLISHED
udp
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags
                                      Туре
                                                      State
                                                                            I-Node
                                                                                         Path
                                     DGRAM
unix 2
                                                                            36402
                                                                                         /run/user/1000/systemd/notify
                                                                                         /run/user/1000/systemd/nottry
/run/user/121/systemd/nottify
/run/systemd/journal/syslog
/run/systemd/journal/dev-log
/run/systemd/journal/socket
/run/wpa_supplicant/wlp2s0
/run/wpa_supplicant/p2p-dev-wlp2s0
/run/systemd/notify
                                     DGRAM
unix
                                                                            28623
unix 2
                                     DGRAM
                                                                            13786
        25
unix
                                     DGRAM
                                                                            13788
unix
                                     DGRAM
                                                                            13800
unix
                                      DGRAM
                                                                            36336
                                      DGRAM
                                                                            36363
                                      DGRAM
                                                                            13773
```

						Terminal 🖨 📵 😣
File	Edi	it View Search	Terminal Help			
unix	3	3 [ j	DGRAM		13773	/run/systemd/notify
unix	3	3 []	SEQPACKET	CONNECTED	39866	<b>@</b> 00012
unix	3	3 []	SEQPACKET	CONNECTED	39864	<b>@00011</b>
unix			STREAM	CONNECTED	93057	To the Control of the
unix			STREAM	CONNECTED	81817	/run/user/1000/bus
unix			STREAM	CONNECTED	57058	
unix			STREAM	CONNECTED	40421	
unix			SEQPACKET	CONNECTED	39862	
unix			STREAM	CONNECTED	29958	
unix			STREAM	CONNECTED	100407	
unix			STREAM	CONNECTED	37795	
unix			STREAM	CONNECTED	36685	/run/systemd/journal/stdout
unix			STREAM	CONNECTED	36542	/run/user/1000/bus
unix			STREAM	CONNECTED	33242	
unix			DGRAM		27890	
unix			STREAM	CONNECTED	69686	
unix			STREAM	CONNECTED	57290	
unix			STREAM	CONNECTED	53981	
unix			STREAM	CONNECTED	37388	A CONTRACTOR OF THE CONTRACTOR
unix			STREAM	CONNECTED	31374	/run/user/121/pulse/native
unix			STREAM	CONNECTED	27795	/run/systemd/journal/stdout
unix			STREAM	CONNECTED	83446	
unix			STREAM	CONNECTED	41959	and the management of the second
unix			STREAM	CONNECTED	42765	@/tmp/dbus-5nEUbBBk
unix			STREAM	CONNECTED	39480	10 10 Aug 10 10 Aug
unix			STREAM	CONNECTED	24347	/var/run/dbus/system_bus_socket
unix			STREAM	CONNECTED	69692	a three fallows graphed a see
unix			STREAM	CONNECTED	40545	@/tmp/dbus-EKRb0lR46F
unix			STREAM	CONNECTED	37776	
unix			STREAM	CONNECTED	38468	lava lugas (434 lbus
unix			STREAM	CONNECTED	33197	/run/user/121/bus
unix			STREAM	CONNECTED	22323	/run/systemd/journal/stdout
unix			STREAM	CONNECTED	44861	/run/systemd/journal/stdout
unix unix			STREAM STREAM	CONNECTED CONNECTED	42245 32387	/run/user/1000/pulse/native
untx			STREAM	CONNECTED	32387 40420	/var/run/dbus/system_bus_socket

					Terminal	
File Edit	View Search Terr	minal Help				
unix 3	L J	STREAM	CONNECTED	95807		
unix 3	[ ]	STREAM	CONNECTED	39087	@/tmp/dbus-EKRb0lR46F	
unix 3	[ ]	STREAM	CONNECTED	37739		
unix 3	[ ]	STREAM	CONNECTED	36553	/run/user/1000/bus	
unix 3	[ ]	STREAM	CONNECTED	31362	@/tmp/dbus-TwiSCVbf3L	
unix 3	[ ]	STREAM	CONNECTED	32819		
unix 3	[ ]	STREAM	CONNECTED	69781		
unix 3	į į	STREAM	CONNECTED	68243		
unix 3	[ ]	STREAM	CONNECTED	57289		
unix 3	[ ]	STREAM	CONNECTED	49124		
unix 3	[ ]	STREAM	CONNECTED	36820		
unix 3	[ ]	DGRAM		36403		
unix 3	[ ]	STREAM	CONNECTED	42880		
unix 3	[ ]	STREAM	CONNECTED	39363		
unix 2	[ ]	DGRAM		24337		
unix 3	[ ]	STREAM	CONNECTED	25105	/run/systemd/journal/stdout	
unix 3	[ ]	STREAM	CONNECTED	36730	/run/systemd/journal/stdout	
unix 3	[ ]	STREAM	CONNECTED	38467		
unix 3	[ ]	STREAM	CONNECTED	31369	/run/user/121/bus	
unix 3	[]	STREAM	CONNECTED	34029	/run/systemd/journal/stdout	
unix 3	[ ]	STREAM	CONNECTED	69782		
unix 3	[ ]	STREAM	CONNECTED	68242		
unix 3	[ ]	STREAM	CONNECTED	48918		
unix 3	[ ]	STREAM	CONNECTED	40111		
unix 3	[]	STREAM	CONNECTED	38306	@/tmp/.X11-unix/X0	
unix 3	[]	STREAM	CONNECTED	41958	@/tmp/.X11-unix/X0	
unix 3	[]	STREAM	CONNECTED	40124		
unix 3	[]	STREAM	CONNECTED	28032	/run/systemd/journal/stdout	
unix 2	[]	DGRAM		13824		
unix 3	[ ]	STREAM	CONNECTED	100399		
unix 3	[ ]	STREAM	CONNECTED	57831	@/tmp/dbus-5nEUbBBk	
unix 3	[ ]	STREAM	CONNECTED	37833		
unix 3	[ ]	STREAM	CONNECTED	37794		
unix 3	[]	STREAM	CONNECTED	33297		
unix 3	[]	STREAM	CONNECTED	33196		
unix 3	[ ]	STREAM	CONNECTED	26408	/var/run/dbus/system_bus_socket	

						Terminal 🖨 🗇 📵
File	Edit		Terminal Help			
unix	3	ii	STREAM	CONNECTED	41962	
unix	2	ΪÍ	DGRAM		39685	
unix	3	įί	STREAM	CONNECTED	40125	/run/user/1000/bus
unix	2	ίj	DGRAM		77460	
unix	3	Ĺĺ	STREAM	CONNECTED	67448	
unix	3	[ ]	STREAM	CONNECTED	40544	
unix	3	[ ]	STREAM	CONNECTED	38482	
unix	3	[ ]	STREAM	CONNECTED	35670	@/tmp/.X11-unix/X0
unix	3	[ ]	STREAM	CONNECTED	32276	/run/systemd/journal/stdout
unix	3	[ ]	STREAM	CONNECTED	80032	
unix	3	[ ]	STREAM	CONNECTED	30966	/run/user/121/bus
unix	3	[ ]	STREAM	CONNECTED	30175	/run/systemd/journal/stdout
unix	3	[ ]	DGRAM		24024	
unix	3	[ ]	STREAM	CONNECTED	69778	
unix	3	[ ]	STREAM	CONNECTED	62486	
unix		[ ]	STREAM	CONNECTED	58068	/run/systemd/journal/stdout
unix		[ ]	STREAM	CONNECTED	53980	
unix		[ ]	STREAM	CONNECTED	36825	
unix	3	[ ]	STREAM	CONNECTED	38400	
unix	3	[ ]	STREAM	CONNECTED	41961	
unix	3	[ ]	SEQPACKET	CONNECTED	39867	
unix	3	[ ]	STREAM	CONNECTED	39312	
unix		[ ]	STREAM	CONNECTED	35623	/run/systemd/journal/stdout
unix	2	[ ]	DGRAM		24339	
unix		[ ]	STREAM	CONNECTED	25622	
unix	3	[ ]	STREAM	CONNECTED	42892	@/tmp/.X11-unix/X0
unix	3	[ ]	STREAM	CONNECTED	37790	/run/user/1000/bus
unix		[ ]	STREAM	CONNECTED	38420	
unix	3	[ ]	STREAM	CONNECTED	31359	/var/run/dbus/system_bus_socket
unix	3	[ ]	STREAM	CONNECTED	33193	
unix	2	[ ]	DGRAM		24155	
unix		[ ]	STREAM	CONNECTED	32827	/run/user/121/bus
unix	3	Ĺĵ	STREAM	CONNECTED	58069	/run/user/1000/bus
unix	2	įj	DGRAM		44809	
unix	3	[ ]	STREAM	CONNECTED	36541	



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File Ed	dit	View Search	Terminal Help				
unix	3	[ ]	STREAM	CONNECTED	39992		
unix	3	ΪÍ	STREAM	CONNECTED	32278		
unix	3	ίi	STREAM	CONNECTED	42294	0/tmp/.X11-unix/X0	
unix	3	ΪĪ	STREAM	CONNECTED	42231	/run/user/1000/bus	
unix	3	įί	STREAM	CONNECTED	41035		
unix	3	[ ]	STREAM	CONNECTED	39196	/run/systemd/journal/stdout	
unix	3	ίi	STREAM	CONNECTED	36824	/run/systemd/journal/stdout	
unix	3	[ ]	STREAM	CONNECTED	38374		
unix	3	[ ]	STREAM	CONNECTED	32260		
unix	3	[ ]	STREAM	CONNECTED	27716	/var/run/dbus/system_bus_socket	
unix	3	[ ]	STREAM	CONNECTED	26486	/var/run/dbus/system_bus_socket	
unix		[ ]	STREAM	CONNECTED	77443		
unix	3	[ ]	STREAM	CONNECTED	42283		
unix		[ ]	STREAM	CONNECTED	39412	@/tmp/.X11-unix/X0	
unix :		[ ]	STREAM	CONNECTED	38560	/run/user/1000/bus	
unix		[ ]	STREAM	CONNECTED	39117		
unix		[ ]	STREAM	CONNECTED	31154		
	3	[ ]	STREAM	CONNECTED	95746		
	3	[ ]	STREAM	CONNECTED	36680		
unix		[ ]	STREAM	CONNECTED	30152		
unix		[ ]	SEQPACKET	CONNECTED	43033		
unix		[ ]	STREAM	CONNECTED	39372	/run/systemd/journal/stdout	
unix :		[ ]	STREAM	CONNECTED	42228	/run/systemd/journal/stdout	
	3	[ ]	STREAM	CONNECTED	39084		
unix		[]	STREAM	CONNECTED	39035	/run/user/1000/bus	
unix		[ ]	STREAM	CONNECTED	36731		
unix		[ ]	STREAM	CONNECTED	36621	/var/run/dbus/system_bus_socket	
	3	[ ]	STREAM	CONNECTED	25241		
	3	[ ]	STREAM	CONNECTED	24343	/var/run/dbus/system_bus_socket	
	3	[ ]	STREAM	CONNECTED	95799		
unix		[ ]	STREAM	CONNECTED	42834		
unix		[ ]	STREAM	CONNECTED	38835		
unix		[ ]	STREAM	CONNECTED	32328		
unix		[ ]	STREAM	CONNECTED	29459		
shamim	ı@sl	hamim-HP-Pro	Book-450-G5:~/D	esktop/Linux	Lab2\$ -	ru	

4.

```
File Edit View Search Terminal Help

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

Toot@Shamin-HP-ProBook-450-C5:=# ifconfig enpis0:0 192.168.2.32

root@Shamin-HP-ProBook-450-C5:=# ifconfig enpis0:0 192.168.2.32

root@Shamin-HP-ProBook-450-C5:=# ifconfig enpis0:0 192.168.2.32

root@Shamin-HP-ProBook-450-C5:=# ifconfig enpis0:0 (Ethernet)

RX packets 0 bytes 0 (0.0 0)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 0 bytes 0 (0.0 0)

TX errors 0 dropped overruns 0 carrier 0 collisions 0

enpis0:0: flags=4099-UP,BROADCAST,MULTICAST> mtu 1500

inet 192.108.2.32 methask 255.255.255.0 broadcast 192.168.2.255

ether 10:er?coie+ido:06 txqueuelen 1000 (Ethernet)

enx00a0cc0000000: flags=4163-UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet 192.108.0.179 netmask 255.255.255.0 broadcast 192.108.0.255

ineto fe80::d8fir57de:490=2798B prefixten 64 scoped 6x20

//reory 108.0.255

ineto fe80::d8fir57de:490=2798B prefixten 64 scoped 6x20

//reory 108.0.255
```

root@shamim-HP-ProBook-450-G5: ~

```
root@shamim-HP-ProBook-450-G5: ~
                                                                                                                                                                                                                               88
File Edit View Search Terminal Help
ether 10:e/:c6:e4:db:06 txqueuelen 1000 (Ethernet)
            RX packets 0 bytes 0 (0.0 B)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 0 bytes 0 (0.0 B)
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
enp1s0:0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
            inet 192.168.2.32 netmask 255.255.255.0 broadcast 192.168.2.255
ether 10:e7:c6:e4:db:06 txqueuelen 1000 (Ethernet)
enx00a0c6000000: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 192.168.2.32 netmask 255.255.255.0 broadcast 192.168.2.255
inet6 fe80::d4bf:57de:4b9c:7988 prefixlen 64 scopeid 0x20<link>
            ether 00:a0:c6:00:00:00 txqueuelen 1000 (Ethernet)
RX packets 52117 bytes 57914388 (57.9 MB)
            RX errors 0 dropped 0 overruns 0 frame 0 TX packets 31510 bytes 4679664 (4.6 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 4917 bytes 1504065 (1.5 MB)
            RX errors 0 dropped 0 overruns 0 frame 0
TX packets 4917 bytes 1504065 (1.5 MB)
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
wlp2s0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
           ether 68:ec::C5::01:ec::b2 txqueuelen 1000 (Ethernet)
RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
root@shamim-HP-ProBook-450-G5:~# netstat -r
```

```
root@shamim-HP-ProBook-450-G5: ~
File Edit View Search Terminal Help
503-01168.2.0

0.0.0.0

255.255
                                                                                          U 0 0
                                                     255.255.255.0 U
                                                                                                                                   0 enp1s0
root@shamim-HP-ProBook-450-G5:~# ip route delete defult via 192.168.2.32
Error: any valid prefix is expected rather than "defult".
root@shamim-HP-ProBook-450-G5:-# ifconfig enp1s0:0 down
root@shamim-HP-ProBook-450-G5:~# ifconfig
enp1s0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
              ether 10:e7:c6:e4:db:06 txqueuelen 1000 (Ethernet)
RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
               TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
enx00a0c6000000: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
               inet 192.168.0.179 netmask 255.255.255.0 broadcast 192.168.0.255
              thet 192.108.0.179 hetmask 235.235.255.0 broadcast 192.108.0.235 inet6 fe80::d4bf:57de:4b9c:7988 prefixlen 64 scopeid 0x20<link> ether 00:a0:c6:00:00:00 txqueuelen 1000 (Ethernet) RX packets 3997 bytes 4104092 (4.1 MB) RX errors 0 dropped 0 overruns 0 frame 0 TX packets 2125 bytes 587848 (587.8 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
              inet 127.0.0.1 netmask 255.0.0.0
inet6 ::1 prefixlen 128 scopeid 0x10host>
loop txqueuelen 1000 (Local Loopback)
RX packets 6815 bytes 2133259 (2.1 MB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 6815 bytes 2133259 (2.1 MB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
wlp2s0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
              ether 68:ec:c5:01:ec:b2 txqueuelen 1000 (Ethernet)
              RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
               TX packets 0 bytes 0 (0.0 B)
```