## linux assignment-02

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## 1.

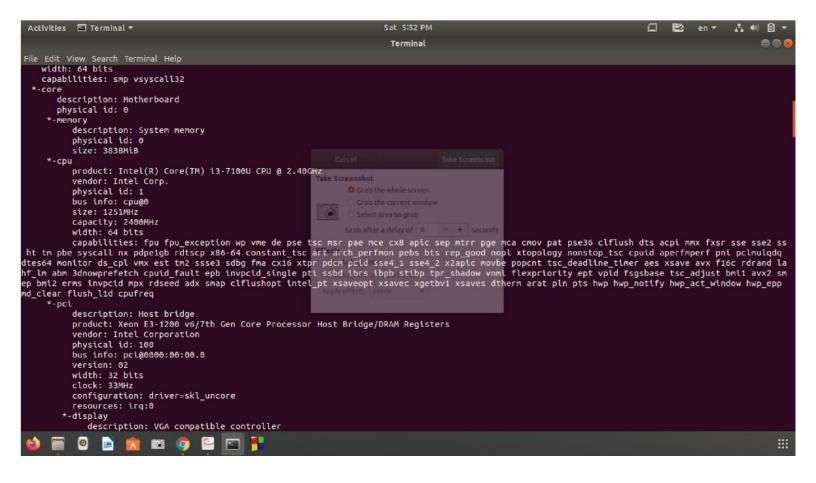
IP addresses can be reached through the public internet, and 192.168.1.1 is among them. This default IP address of most Linksys routers is one of 65,536 IP addresses in the 16-bit block of the private IPv4 address space, which includes addresses from 192.168.0.0 to 192.168.255.255

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

```
Terminal
  File Edit View Search Terminal Help
 shamim@shamim-HP-ProBook-450-G5:~/Desktop/Linux Lab2$ lscpu
                                           x86_64
32-bit, 64-bit
Little Endian
Architecture:
CPU op-mode(s):
CPU op-mode(s): 32-1
Byte Order: Lit
CPU(s): 4
On-line CPU(s) list: 0-3
Thread(s) per core: 2
Core(s) per socket:
Socket(s):
 NUMA node(s):
Vendor ID:
CPU family:
                                             GenuineIntel
 Model:
                                             142
 Model name:
                                             Intel(R) Core(TM) 13-7100U 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
 L1t 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:

Figure de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clfush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall n x pdpe1gb rdtscp lm constant_tsc art arch_perfmon pebs bts rep_good nopl xtopology nonstop_tsc cpuid aperfmperf pni pclmulqdq dtes64 monitor ds_cpl vm x est tm2 ssse3 sdbg fma cx16 xtpr pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand lahf_lm abm 3dnowprefetch cpuid_fault epb invpcid_single pti ssbd ibrs ibpb stibp tpr_shadow vnmi flexpriority ept vpid fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid mpx rdseed adx smap clflushopt intel_pt xsaveopt xsavec xgetbv1 xsaves dtherm arat pln pts hwp hwp_notify hwp_act_window hwp_epp md_clear flush_l1d shamim@shamim-HP-ProBook-450-G5:~/Desktop/Linux Lab2$ lshw WARNING: you should run this program as super-user.
shamim-hp-probook-450-g5
description: Computer
        width: 64 bits
capabilities: smo
```

2 .Find IP & MAC



```
Terminal
                                                                                                                                                                               --
File Edit View Search Terminal Help
              configuration: driver=i915 latency=0
              resources: lomemory:1f0-1ef lrq:132 memory:1ffe000000-1ffeffffff memory:e0000000-effffff loport:4000(slze=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
              width: 64 bits
              clock: 33MHz
capabilities: cap_list
              configuration: driver=proc_thermal latency=0
resources: iomemory:1f0-1ef irq:16 memory:1fff010000-1fff017fff
              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
               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
                                                                                                                                                                                                             00
File Edit View Search Terminal Help
                      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
yendor: Intel Corporation
```

```
Terminal
File Edit View Search Terminal Help
wldtn: 32 bits
                 clock: 33MHz
capabilities: isa bus_master
                 configuration: latency=0
          *-memory UNCLAIMED
                 description: Memory controller
                 product: Sunrise Point-LP PMC
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:1fff000000-1fff00fff
          *-serial UNCLAIMED
                 description: SMBus
product: Sunrise Point-LP SMBus
                 vendor: Intel Corporation
                 physical id: 1f.4
                  bus info: pci@0000:00:1f.4
                 verston: 21
                 width: 64 bits
clock: 33MHz
```

```
Terminal
=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: 00000000-0000-0000-0000-000000001000
                     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:
```

```
Terminal
               *-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: 00000000-0000-0000-0000-000000001000
                    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
                                          1197
                                                        390
                                                                    1096
                2047
                                          2046
Swap:
shamim@shamim-HP-ProBook-450-G5:~/Desktop/Linux Lab2$
```

## Mac:

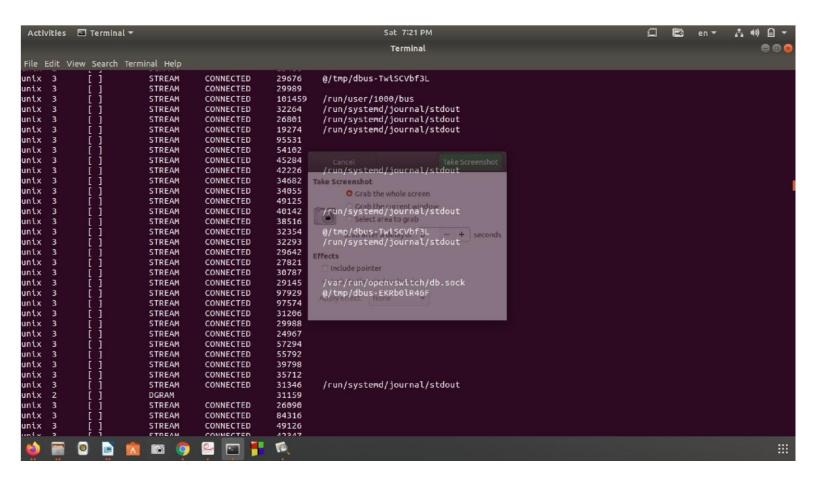
3.

```
Terminal
                                                                                                                                                                                           88
File Edit View Search Terminal Help
shamim@shamim-HP-ProBook-450-G5:~/Desktop/Linux Lab2$
Shamin@shamim-HP-ProBook-450-05:-/Desktop/Linux Lab2$
shamin@shamim-HP-ProBook-450-05:-/Desktop/Linux Lab2$
Active Internet connections (w/o servers)
                                                                        netstat
Proto Recv-Q Send-Q Local Address
                                                        Foreign Address
                                                                                       State
                      0 shamim-HP-ProBook:48744 172.67.75.102:https
0 shamim-HP-ProBook:42548 53.72.190.35.bc.g:https
                                                                                       ESTABLISHED
tcp
                                                                                       TIME_WAIT
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
tcp
                       0 shamim-HP-ProBook:48970 1.80.190.35.bc.go:https TIME_WAIT
                      tcp
             0
                                                                                       ESTABLISHED
tcp
                                                                                       ESTABLISHED
tcp
                      0 localhost:54314
                                                        localhost:9614
                                                                                       ESTABLISHED
tcp
                       0 shamim-HP-ProBook:39180 74.125.24.188:5228
                                                                                       ESTABLISHED
tcp
                      0
tcp
                                                                                       ESTABLISHED
tcp
                         shamim-HP-ProBook:40112 151.101.10.217:https
                                                                                       ESTABLISHED
tcp
                      0 shamim-HP-ProBook:53704 104.18.52.245:https
0 shamim-HP-ProBook:55302 172.67.156.77:https
tcp
                                                                                       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
             1
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)
                               Type
DGRAM
Proto RefCnt Flags
                                              State
                                                                I-Node
                                                                           Path
unix 2
                                                                36402
                                                                            /run/user/1000/systemd/notify
unix
       2
                               DGRAM
                                                                28623
                                                                            /run/user/121/systemd/notify
                                                                           /run/systemd/journal/syslog
/run/systemd/journal/syslog
/run/systemd/journal/socket
/run/wpa_supplicant/wlp2s0
unix
                               DGRAM
                                                                13786
      25
untx
                               DGRAM
                                                                13788
unix
                                DGRAM
                                                                13800
                                DGRAM
unix
                                                                36336
                                                                            /run/wpa_supplicant/p2p-dev-wlp2s0
/run/systemd/notify
                                DGRAM
                                                                36363
                                DCRAM
                                                                13773
```

					Terminal 🖨 🙃
File Edit	t View Search	Terminal Help			
unix 3		DGRAM		13773	/run/systemd/notlfy
unix 3		SEQPACKET	CONNECTED	39866	000012
unix 3		SEQPACKET	CONNECTED	39864	@00011
unix 3		STREAM	CONNECTED	93057	
untx 3		STREAM	CONNECTED	81817	/run/user/1000/bus
ınix 3		STREAM	CONNECTED	57058	
ınix 3		STREAM	CONNECTED	40421	
ıntx 3		SEQPACKET	CONNECTED	39862	
ınix 3		STREAM	CONNECTED	29958	
ıntx 3	[]	STREAM	CONNECTED	100407	
ınix 3		STREAM	CONNECTED	37795	
ınix 3		STREAM	CONNECTED	36685	/run/systemd/journal/stdout
ıntx 3		STREAM	CONNECTED	36542	/run/user/1000/bus
ınix 3		STREAM	CONNECTED	33242	
intx 2	[ ]	DGRAM		27890	
ınix 3		STREAM	CONNECTED	69686	
ınix 3		STREAM	CONNECTED	57290	
intx 3		STREAM	CONNECTED	53981	
ınix 3		STREAM	CONNECTED	37388	
ınix 3	[ ]	STREAM	CONNECTED	31374	/run/user/121/pulse/native
nix 3		STREAM	CONNECTED	27795	/run/systemd/journal/stdout
nix 3		STREAM	CONNECTED	83446	
ntx 3		STREAM	CONNECTED	41959	
nix 3		STREAM	CONNECTED	42765	@/tmp/dbus-5nEUbBBk
nix 3		STREAM	CONNECTED	39480	
nix 3		STREAM	CONNECTED	24347	/var/run/dbus/system_bus_socket
nix 2		STREAM	CONNECTED	69692	
ntx 3		STREAM	CONNECTED	40545	@/tmp/dbus-EKRb0lR46F
nix 3		STREAM	CONNECTED	37776	
nix 3		STREAM	CONNECTED	38468	
ntx 3		STREAM	CONNECTED	33197	/run/user/121/bus
nix 3		STREAM	CONNECTED	22323	/run/systemd/journal/stdout
intx 3	[ ]	STREAM	CONNECTED	44861	/run/systemd/journal/stdout
ınix 3		STREAM	CONNECTED	42245	/run/user/1000/pulse/native
ınix 3	[ ]	STREAM	CONNECTED	32387	/var/run/dbus/system_bus_socket
intx 3	[ ]	STREAM	CONNECTED	48428	

						Terminal	908
File I	Edit Vie	ew Search	Terminal Help				
unix	3	LJ	STREAM	CONNECTED	95807		
unix	3	[ ]	STREAM	CONNECTED	39087	@/tmp/dbus-EKRb0lR46F	
unix	3	[ ]	STREAM	CONNECTED	37739		12
	3	[ ]	STREAM	CONNECTED	36553	/run/user/1000/bus	
unix	3	[ ]	STREAM	CONNECTED	31362	@/tmp/dbus-TwiSCVbf3L	
unix	3	[ ]	STREAM	CONNECTED	32819		
untx	3	[ ]	STREAM	CONNECTED	69781		
unix		[ ]	STREAM	CONNECTED	68243		
unix	3	[ ]	STREAM	CONNECTED	57289		
unix		[ ]	STREAM	CONNECTED	49124		
unix	3	[ ]	STREAM	CONNECTED	36820		
		[]	DGRAM		36403		
unix		[ ]	STREAM	CONNECTED	42880		
unix		[]	STREAM	CONNECTED	39363		
unix		[ ]	DGRAM		24337		
		[ ]	STREAM	CONNECTED	25105	/run/systemd/journal/stdout	
		[ ]	STREAM	CONNECTED	36730	/run/systemd/journal/stdout	
unix		[ ]	STREAM	CONNECTED	38467		
unix		[ ]	STREAM	CONNECTED	31369	/run/user/121/bus	
unix		[ ]	STREAM	CONNECTED	34029	/run/systemd/journal/stdout	
unix		[ ]	STREAM	CONNECTED	69782		
untx		[ ]	STREAM	CONNECTED	68242		
unix	3	[ ]	STREAM	CONNECTED	48918		
unix	3	[ ]	STREAM	CONNECTED	40111		
untx		[ ]	STREAM	CONNECTED	38306	@/tmp/.X11-unix/X0	
unix		[]	STREAM	CONNECTED	41958	@/tmp/.X11-unix/X0	
untx		[ ]	STREAM	CONNECTED	40124		
		[]	STREAM	CONNECTED	28032	/run/systemd/journal/stdout	
unix	2	[ ]	DGRAM		13824		
untx		[ ]	STREAM	CONNECTED	100399		
unix		[ ]	STREAM	CONNECTED	57831	@/tmp/dbus-5nEUbBBk	
unix		[ ]	STREAM	CONNECTED	37833		
unix		[ ]	STREAM	CONNECTED	37794		
unix		[ ]	STREAM	CONNECTED	33297		
unix	3	[ ]	STREAM	CONNECTED	33196	A CONTRACT OF THE CONTRACT OF	
unix	3	[]	STREAM	CONNECTED	26408	/var/run/dbus/system_bus_socket	

					Terminal 🖨 6
e Edit V	liew Search	Terminal Help			
x 3	L J	STREAM	CONNECTED	41962	
x 2	Ĺij	DGRAM	CONNECTED		
x 2	Ĺij	STREAM	CONNECTED	39685 40125	Isua lucas (1999 lbus
x 2	[]	DGRAM	CONNECTED	77460	/run/user/1000/bus
x 3	t i	STREAM	CONNECTED	67448	
x 3	1 1	STREAM	CONNECTED	40544	
x 3	ti	STREAM	CONNECTED	38482	
x 3		STREAM	CONNECTED		Altmal Vas univ IVA
x 3	Ĺĺ	STREAM	CONNECTED	35670 32276	@/tmp/.X11-unix/X0
	Ĺĺ				/run/systemd/journal/stdout
x 3	įį	STREAM STREAM	CONNECTED	80032 30966	Java Jugan 1434 Jhun
x 3	ίi			30175	/run/user/121/bus
x 3	ίί	STREAM	CONNECTED	24024	/run/systemd/journal/stdout
x 3	Ĺĺ	DGRAM STREAM	CONNECTED	69778	
	ίί		CONNECTED		
X 3	Ĺij	STREAM STREAM	CONNECTED	62486 58068	I am I ametered (Samera) (adda ut
x 3	Ĺĺ	STREAM	CONNECTED		/run/systemd/journal/stdout
X 3	ίĵ			53980	
X 3	Ĺĺ	STREAM STREAM	CONNECTED	36825 38400	
x 3	Ιİ				
X 3	ίĵ	STREAM	CONNECTED	41961	
х 3	[]	SEQPACKET	CONNECTED	39867	
x 3	Ϊİ	STREAM	CONNECTED	39312	to the total and the second test and
X 3	Ĺĺ	STREAM	CONNECTED	35623	/run/systemd/journal/stdout
x 2	ίĵ	DGRAM		24339	
x 3	Ĺĵ	STREAM	CONNECTED	25622	- 1
x 3	Ĺĵ	STREAM	CONNECTED	42892	@/tmp/.X11-unix/X0
x 3	ίĵ	STREAM	CONNECTED	37790	/run/user/1000/bus
х 3	Ĺĺ	STREAM	CONNECTED	38420	A Control of the American Control of the Control of
x 3	[]	STREAM	CONNECTED	31359	/var/run/dbus/system_bus_socket
х 3	ΓÌ	STREAM	CONNECTED	33193	
x 2	Ĺĵ	DGRAM		24155	
x 3	[ j	STREAM	CONNECTED	32827	/run/user/121/bus
х 3	ίĵ	STREAM	CONNECTED	58069	/run/user/1000/bus
x 2	ίĵ	DGRAM		44809	
x 3	[ ]	STREAM	CONNECTED	36541	



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File E	dit	View Search	Terminal Help				
unix	3	[]	STREAM	CONNECTED	39992		
unix	3	[ ]	STREAM	CONNECTED	32278		
unix	3	ίĵ	STREAM	CONNECTED	42294	@/tmp/.X11-unix/X0	
unix	3	[ ]	STREAM	CONNECTED	42231	/run/user/1000/bus	
unix	3	[ ]	STREAM	CONNECTED	41035		
unix	3	[ ]	STREAM	CONNECTED	39196	/run/systemd/journal/stdout	
	3	[ ]	STREAM	CONNECTED	36824	/run/systemd/journal/stdout	
unix		[ ]	STREAM	CONNECTED	38374		
unix		[ ]	STREAM	CONNECTED	32260		
	3	[ ]	STREAM	CONNECTED	27716	/var/run/dbus/system_bus_socket	
	3	[ ]	STREAM	CONNECTED	26486	/var/run/dbus/system_bus_socket	
	3	[ ]	STREAM	CONNECTED	77443		
unix		[ ]	STREAM	CONNECTED	42283		
	3	[ ]	STREAM	CONNECTED	39412	@/tmp/.X11-unix/X0	
	3	[ ]	STREAM	CONNECTED	38560	/run/user/1000/bus	
	3	[ ]	STREAM	CONNECTED	39117		
unix		[ ]	STREAM	CONNECTED	31154		
unix		[ ]	STREAM	CONNECTED	95746		
	3	[ ]	STREAM	CONNECTED	36680		
	3	[ ]	STREAM	CONNECTED	30152		
unix		[ ]	SEQPACKET	CONNECTED	43033		
untx		[ ]	STREAM	CONNECTED	39372	/run/systemd/journal/stdout	
unix		[ ]	STREAM	CONNECTED	42228	/run/systemd/journal/stdout	
	3	[ ]	STREAM	CONNECTED	39084		
	3	[ j	STREAM	CONNECTED	39035	/run/user/1000/bus	
	3	ίĵ	STREAM	CONNECTED	36731	Para Para Para Para Para Para Para Para	
untx		ίĵ	STREAM	CONNECTED	36621	/var/run/dbus/system_bus_socket	
unix		ίĵ	STREAM	CONNECTED	25241	A COLOR DE LA COLO	
	3	ίĵ	STREAM	CONNECTED	24343	/var/run/dbus/system_bus_socket	
	3	Ĺĵ	STREAM	CONNECTED	95799		
unix		ίĵ	STREAM	CONNECTED	42834		
unix		Ĺĵ	STREAM	CONNECTED	38835		
	3	ίĵ	STREAM	CONNECTED	32328		
unix		[ ]	STREAM	CONNECTED	29459		
snamir	ndst	namim-HP-Pro	Book-450-G5:~/D	esktop/Linux	Lab2\$ -	r	

4.

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

```
root@shamim-HP-ProBook-450-G5: ~
File Edit View Search Terminal Help
etner 10:e/:co:e4:db:0o txqueuelen 1000 (Etnernet)
          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>
           RX 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
192.168.2.0 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
             RX 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 netmask 255.255.255.0 broadcast 192.108.0.255 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)
```