```
PORT AVAILABLE INFORMATION
[root@vivek p]# netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address
                                                Foreign Address
                                                                           State
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags
                           Type
DGRAM
                                       State
                                                       I-Node
                                                                 Path
                                                       30802
                                                                 /var/run/chrony/chronyd.sock
unix
                           DGRAM
                                                       44386
                                                                 /run/user/2000/systemd/notify
unix
unix
                           DGRAM
                                                       38253
                                                                 /run/user/42/systemd/notify
                           DGRAM
                                                       12939
                                                                 /run/svstemd/notifv
unix
                           DGRAM
                                                       12941
                                                                 /run/systemd/cgroups-agent
unix
                           DGRAM
                                                                 /run/systemd/journal/dev-log
                                                                 /run/systemd/journal/socket
/run/systemd/journal/stdout
unix
      8
                           DGRAM
                                                       12964
                           STREAM
                                       CONNECTED
                                                       49147
unix
                           STREAM
                                       CONNECTED
                                                       48906
                                                                 /run/user/2000/bus
unix
                           STREAM
                                       CONNECTED
                                                       44322
                                                                 @/tmp/dbus-d8BX9DLJWr
unix
                           STREAM
                                       CONNECTED
                                                       41000
                                       CONNECTED
                                                                 /run/user/42/bus
                           STREAM
                                                       36601
unix
                                        CONNECTED
                                                       36921
                           STREAM
unix
                           STREAM
                                       CONNECTED
                                                       51537
unix
                           STREAM
                                       CONNECTED
                                                       48222
```

```
CHECK ALL PORT
[root@vivek p]# netstat -a
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address
                                             Foreign Address
                                                                      State
tcp
                  0 0.0.0.0:sunrpc
                                             0.0.0.0:*
           0
                                                                      LISTEN
tcp
           0
                  0 vivek.gandhi.com:domain 0.0.0.0:*
                                                                      LISTEN
tcp
           0
                  0 0.0.0.0:ssh
                                             0.0.0.0:*
                                                                      LISTEN
tcp
                  0 localhost:ipp
                                             0.0.0.0:*
                                                                      LISTEN
tcp6
                    [::]:sunrpc
                                                                      LISTEN
                    [::]:ftp
tcp6
           0
                                                                      LISTEN
                  0 [::]:ssh
                                                                      LISTEN
tcp6
                  0 localhost:ipp
                                                                      LISTEN
tcp6
                  0 vivek.gandhi.com:domain 0.0.0.0:*
abu
udp
           0
                                             0.0.0.0:*
                  0 0.0.0.0:bootps
udp
           0
                  0 0.0.0.0:sunrpc
                                             0.0.0.0:*
udp
           0
                  0 0.0.0.0:39069
                                             0.0.0.0:*
udp
                  0 0.0.0.0:mdns
                                             0.0.0.0:*
udp
                  0
                    localhost:323
                                             0.0.0.0:*
udp6
                    [::]:39958
```

```
ONLY TCP PORT SHOW
[root@vivek p]# netstat -at
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address
                                             Foreign Address
                                                                      State
tcp
          0
                  0 0.0.0.0:sunrpc
                                             0.0.0.0:*
                                                                      LISTEN
tcp
                  0 vivek.gandhi.com:domain 0.0.0.0:*
                                                                      LISTEN
tcp
                  0 0.0.0.0:ssh
                                             0.0.0.0:*
                                                                      LISTEN
tcp
           0
                  0 localhost:ipp
                                             0.0.0.0:*
                                                                      LISTEN
                  0 [::]:sunrpc
0 [::]:ftp
           0
                                                                      LISTEN
tcp6
tcp6
                                                                      LISTEN
           0
tcp6
           0
                  0 [::]:ssh
                                                                      LISTEN
                  0 localhost:ipp
tcp6
           0
                                                                      LISTEN
```

```
ONLY UDP PORT SHOW
[root@vivek p]# netstat -au
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address
                                            Foreign Address
                                                                     State
          0
                 0 vivek.gandhi.com:domain 0.0.0.0:*
udp
           0
udp
                  0 0.0.0.0:bootps
                                            0.0.0.0:*
udp
           0
                  0 0.0.0.0:sunrpc
                                            0.0.0.0:*
udp
                  0 0.0.0.0:39069
                                            0.0.0.0:*
           0
udp
           0
                  0 0.0.0.0:mdns
                                            0.0.0.0:*
           0
                  0 localhost:323
abu
                                            0.0.0.0:*
udp6
           0
                  0 [::]:39958
udp6
           0
                  0 [::]:sunrpc
udp6
           0
                  0 [::]:mdns
udp6
          0
                  0 localhost:323
[root@vivek p]#
```

#### **ONLY UNIX BASED PORT SHOW** [root@vivek p]# netstat -ax Active UNIX domain sockets (servers and established) Proto RefCnt Flags Type State I-Node Path STREAM LISTENING 43931 @/tmp/.ICE-unix/2198 unix @/org/kernel/linux/storage/multipathd STREAM unix LISTENING 15309 @/tmp/.ICE-unix/1780 /tmp/.esd-2000/socket unix ACC STREAM LISTENING 38511 unix ACC STREAM LISTENING 43675 @/tmp/.X11-unix/X0 /tmp/.X11-unix/X1024 unix ACC STREAM LISTENING 45342 unix STREAM LISTENING 39052 STREAM LISTENING 39196 @/tmp/dbus-rVTSdFCI unix

30778

/var/run/lsm/ipc/simc

```
PORT SHO
[root@vivek p]# netstat -l
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address
                                                    Foreign Address
                                                                                State
tcp
                     0 0.0.0.0:sunrpc
                                                    0.0.0.0:*
                                                                                LISTEN
tcp
                     0 vivek.gandhi.com:domain 0.0.0.0:*
                                                                                LISTEN
tcp
                     0 0.0.0.0:ssh
                                                    0.0.0.0:*
                                                                                LISTEN
                     0 localhost:ipp
tcp
                                                    0.0.0.0:*
                                                                                LISTEN
                     0 [::]:sunrpc
0 [::]:ftp
0 [::]:ssh
0 localhost:ipp
tcp6
            0
                                                                                LISTEN
tcp6
            0
                                                                                LISTEN
            0
tcp6
                                                                                LISTEN
tcp6
             0
                                                                                LISTEN
             0
                     0 vivek.gandhi.com:domain 0.0.0.0:*
```

				ONLY TCP LI	STENING BASED	PORT SHOW			
	root@vivek p]# netstat -lt								
	ctive Internet connections (only servers)								
	Proto Recv-	Q Send	- Q	Local Address	Foreign Address	State			
	tcp	0	0	0.0.0.0:sunrpc	0.0.0.0:*	LISTEN			
	tcp	0	0	vivek.gandhi.com:domain	0.0.0.0:*	LISTEN			
	tcp	0	0	0.0.0.0:ssh	0.0.0.0:*	LISTEN			
	tcp	0	0	localhost:ipp	0.0.0.0:*	LISTEN			
ľ	tcp6	0	0	[::]:sunrpc	[::]:*	LISTEN			
ľ	tcp6	0	0	[::]:ftp	[::]:*	LISTEN			
	tcp6			[::]:ssh	[::]:*	LISTEN			
	tcp6	0	0	localhost:ipp	[::]:*	LISTEN			
ı	[root@vivek	cnl#							

		ONLY (	JDP LISTE	NING BASED	PORT SHOW				
[root	[root@vivek p]# netstat -lu								
Activ	Active Internet connections (only servers)								
Proto	Recv-Q Send	-Q Local Addres	s F	Foreign Address	State				
udp	0	0 vivek.gandhi	.com:domain @	0.0.0.0:*					
udp	0	0 0.0.0.0:boot	ps (	0.0.0.0:*					
udp	0	0 0.0.0.0:sunr	pc 6	0.0.0.0:*					
udp	0	0 0.0.0.0:3906	9 (	0.0.0.0:*					
udp	0	0 0.0.0.0:mdns	6	0.0.0.0:*					
udp	0	0 localhost:32	3 6	0.0.0.0:*					
udp6	0	0 [::]:39958	I	[::]:*					
udp6	0	0 [::]:sunrpc	I	[::]:*					
udp6	Θ	0 [::]:mdns	,	[::]:*					
udp6	0 _	0 localhost:32	3	[::]:*					

	ONLY UNIX LISTENING BASED PORT SHOW							
[root	[root@vivek p]# netstat -lx							
Activ	Active UNIX domain sockets (only servers)							
Proto	Ref	Cnt F	lags		Туре	State	I-Node	Path
unix	2	[	ACC		STREAM	LISTENING	43931	@/tmp/.ICE-unix/2198
unix	2	[	ACC		STREAM	LISTENING	15309	@/org/kernel/linux/storage/multipathd
unix	2	[	ACC		STREAM	LISTENING	38511	@/tmp/.ICE-unix/1780
unix	2	[	ACC		STREAM	LISTENING	43675	/tmp/.esd-2000/socket
unix	2	[	ACC		STREAM	LISTENING	45342	@/tmp/.X11-unix/X0
unix	2	[	ACC		STREAM	LISTENING	39052	/tmp/.X11-unix/X1024
unix	2	[	ACC		STREAM	LISTENING	39196	@/tmp/dbus-rVTSdFCI
unix	2	[	ACC		STREAM	LISTENING	30778	/var/run/lsm/ipc/simc
unix	2	[	ACC		STREAM	LISTENING	29359	@irqbalance1023.sock
unix	2	[	ACC		STREAM	LISTENING	30780	/var/run/lsm/ipc/sim
unix	2	[	ACC		STREAM	LISTENING	38043	@/tmp/dbus-F201pu62
unix	2	[	ACC		STREAM	LISTENING	28304	@ISCSID_UIP_ABSTRACT_NAMESPACE
unix	2	[	ACC	1	STREAM	LISTENING	43932	/tmp/.ICE-unix/2198

unix

ACC

STREAM

LISTENING

## PROTOCOL STATISTIC CHECK

[root@vivek p]# netstat -s Ip:

Forwarding: 1

332 total packets received

0 forwarded

0 incoming packets discarded
108 incoming packets delivered

256 requests sent out

4 dropped because of missing route

## **TCP PROTOCOL STATISTIC CHECK**

[root@vivek p]# netstat -st

IcmpMsg:

InType3: 108 OutType3: 108 OutType8: 14

Тср:

0 active connection openings
0 passive connection openings
0 failed connection attempts

## **UDP PROTOCOL STATISTIC CHECK**

[root@vivek p]# netstat -su

IcmpMsg:

InType3: 108
OutType3: 108
OutType8: 14

Udp:

0 packets received

0 packets to unknown port received

0 packet receive errors

# SERVICE NAME WITH PROCESS ID CHECK

[root@vivek p]# netstat -tp

Active Internet connections (w/o servers)

Proto Recv-Q Send-Q Local Address Foreign Address State PID/Program name

root@vivok\_pl#

## **KERNEL IP ROUTING TABLE**

[root@vivek p]# netstat -r Kernel IP routing table Genmask Flags MSS Window irtt Iface Destination Gateway default 0.0.0.0 UG 0 0 0 ens160 \_gateway 0.0.0.0 255.255.255.255 UH \_gateway 0 0 0 ens160 192.168.10.0 0.0.0.0 255.255.255.0 0 0 0 ens160 192.168.122.0 255.255.255.0 0 0 virbr0 0.0.0.0 0

## **NETWORK INTERFACE WITH PACKET INFORMATION**

[root@vivek p]# netstat -i Kernel Interface table Iface MTU RX-OK RX-ERR RX-DRP F ens160 1500 522 0 0.0

RX-OK RX-ERR RX-DRP RX-OVR TX-OK TX-ERR TX-DRP TX-OVR Flg ens160 0 BMRU 1500 0 0 0 0 0 0 IRII lo 65536 114 0 0 114 0 0 virbr0 0 0 1500 0 0 0 0 0 BMU

## RECIVED PACKET ERROR OUTPUT SHOW

```
[root@vivek p]# netstat -ie
Kernel Interface table
ens160: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.10.2 netmask 255.255.255.0 broadcast 192.168.10.255
    inet6 fe80::4b9:cea9:aab8:d94d prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:01:90:46 txqueuelen 1000 (Ethernet)
    RX packets 543 bytes 62809 (61.3 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 237 bytes 13456 (13.1 KiB)
    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
```

## **MULTICASTING GROUP CHECK**

```
[root@vivek p]# netstat -g
IPv6/IPv4 Group Memberships
Interface
                RefCnt Group
lo
                        224.0.0.1
ens160
                        224.0.0.251
                       224.0.0.1
                1
ens160
virbr0
                       224.0.0.251
virbr0
                        224.0.0.1
lo
                        ff02::1
                1
                       ff01::1
lo
                1
ens160
                1
                       ff02::1:ffb8:d94d
ens160
                       ff02::fb
ens160
                       ff02::1
ens160
                1
                        ff01::1
virbr0
                        ff02::1
                        ff01::1
virbr0
                1
                        ff02::1
virbr0-nic
virbr0-nic
                        ff01::1
```

## **EXTEND COMMAND CONTINUES CHECK**

[root@vivek p]# netstat -c

### **END COMMAND CTRL+C**

#### CHECK NON SUPPORTIV ADRE [root@vivek p]# netstat -v Active Internet connections (w/o servers) Proto Recv-Q Send-Q Local Address Foreign Address State netstat: no support for `AF INET (sctp)' on this system. netstat: no support for `AF INET (sctp)' on this system. Active UNIX domain sockets (w/o servers) Туре Proto RefCnt Flags I-Node Path 30802 unix 2 /var/run/chrony/chronyd.sock unix DGRAM 44386 /run/user/2000/systemd/notify /run/user/42/systemd/notify unix DGRAM 38253 /run/systemd/notify DGRAM 12939 unix DGRAM 12941 /run/systemd/cgroups-agent unix DGRAM 12952 /run/systemd/journal/dev-log unix DGRAM 12964 /run/systemd/journal/socket

```
CHECK PORT PROGARAM RUN
[root@vivek p]# netstat -ap |grep ssh
                0 0.0.0.0:ssh
                                        0.0.0.0:*
                                                                          1199/sshd
tcp
                                                              LISTEN
                                                                          1199/sshd
tcp6
         0
                0 [::]:sst
                                        [::]:*
                                                              LISTEN
           [ ACC ]
                      STREAM
                                LISTENING
                                              44885
                                                      2184/gnome-keyring- /run/user/2000/keyring/ssh
unix 2
                                                      1199/sshd
                                              33013
unix 3
           STREAM
                                 CONNECTED
unix 2
                      STREAM
                                 CONNECTED
                                              33337
                                                      1199/sshd
[root@vivek p]#
```

## PORT PROCESS

```
LISTENING
                               44885
                                    /run/user/2000/keyring/ssh
[root@vivek p]#
```

```
RAW ENTRY STATAISCK
[root@vivek p]# netstat -s --raw
Ip:
    Forwarding: 1
    785 total packets received
   0 forwarded
   0 incoming packets discarded
    148 incoming packets delivered
    338 requests sent out
   4 dropped because of missing route
Icmp:
    148 ICMP messages received
   0 input ICMP message failed
    ICMP input histogram:
       destination unreachable: 148
    162 ICMP messages sent
```

#### **MULTIPLE OPTION CHECK** [root@vivek p]# netstat -tupln | grep 22 tcp 0 0 192.168.122.1:53 tcp 0 0 0.0.0.0:22 0.0.0.0:\* 1631/dnsmasq LISTEN 0.0.0.0:\* LISTEN 1199/sshd LISTEN 1199/sshd 0 192.168.122.1:53 0.0.0.0:\* 1631/dnsmasq

tcp6

udp