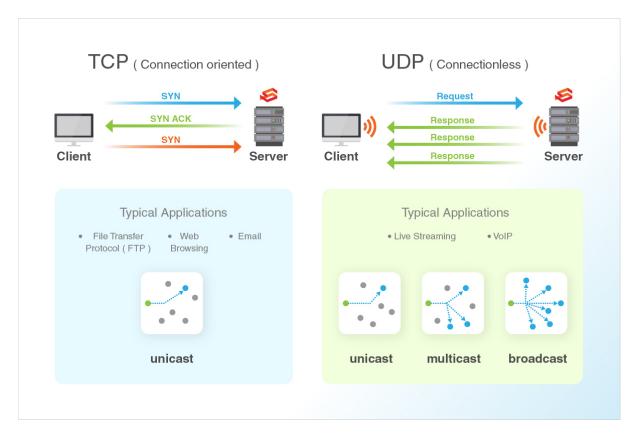
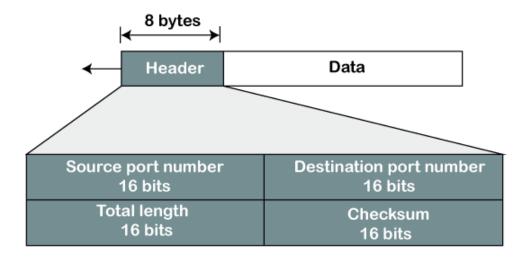
IT 307- Exploring the Networks Handout 1

Observing TCP and UDP using Netstat Explain common netstat command parameters and outputs.



Transmission Control Protocol (TCP) Header 20-60 bytes destination port number 2 bytes source port number 2 bytes sequence number 4 bytes acknowledgement number data offset 4 bits window size control flags reserved 9 bits 2 bytes checksum urgent pointer 2 bytes 2 bytes optional data 0-40 bytes

UDP Header Format



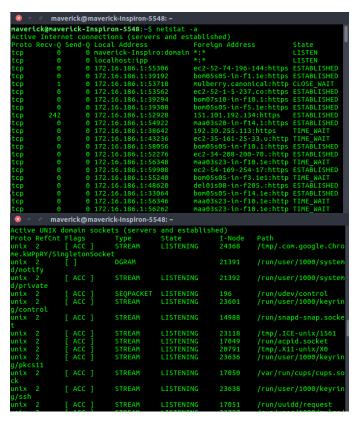
Netstat command displays various network related information such as network connections, routing tables, interface statistics, masquerade connections, multicast memberships etc.,

NETSTAT command table

OPTION	DESCRIPTION		
-a	Displays all connections and listening ports.		
-b	Displays the executable involved in creating each connection or listening port. In some cases well-know executables host multiple independent components, and in these cases the sequence of components involved in creating the connection or listening port is displayed. In this case the executable name is in [at the bottom, on top is the component it called and so forth until TCP/IP was reached. Note that this option can be time-consuming and will fail unless you have sufficient permissions.		
-е	Displays Ethernet statistics. This may be combined with the -s option		
-f	Displays Fully Qualified Domain Names (FQDN) for foreign addresses		
-n	Displays addresses and port numbers in numerical form		
-0	Displays the owning process ID associated with each connection		
-p proto	Shows connections for the protocol specified by proto; proto may be any of: TCP, UDP, TCPv6, or UDPv6. If used with the –s option to display per-protocol statistics, proto may be any of: IP, IPv6, ICMP, ICMPv6, TCP, TCPv6, UDP, or UDPv6.		
-r	Displays the routing table.		
-s	Displays per-protocol statistics. By default, statistics are shown for IP, IPv6, ICMP, ICMPv6, TCP, TCPv6, UDP, and UDPv6; the -p option may be used to specify a subset of the default.		
-t	Displays the current connection offload state.		
-x	Displays Network Direct connections, listeners, and shared endpoints		
-у	Displays the TCP connection template for all connections. Cannot be combined with the other options.		
interval	Redisplays selected statistics, pausing interval seconds between each display. Press CTRL+C to stop redisplaying statistics. If omitted, netstat will print the current configuration information once.		
	https://ipwithease.co		

Examples of some practical netstat command:

- 1. **-a -all**: Show both listening and non-listening sockets. With the –interfaces option, show interfaces that are not up
- 2. **netstat -a** | **more :** To show both listening and non-listening sockets.



3. List all tcp ports.

netstat -at: To list all tcp ports.

```
maverick@maverick-Inspiron-5548:~

maverick@maverick-Inspiron-5548:~

Active Internet connections (servers and established)

Proto Recv-Q Send-Q Local Address Foreign Address State

tcp 0 0 maverick-Inspiro:domain *:* LISTEN

tcp 0 0 172.16.186.1:55166 maa03s20-in-f14.1:https ESTABLISHED

tcp 1 0 172.16.186.1:53718 mulberry.canonical:http CLOSE_WAIT

tcp 1 0 172.16.186.1:52420 ec2-34-208-200-70.:http CLOSE_WAIT

tcp 1 0 172.16.186.1:343482 ec2-35-161-25-33.u:http CLOSE_WAIT

tcp 0 0 172.16.186.1:43484 ec2-35-161-25-33.u:http CLOSE_WAIT

tcp 1 0 172.16.186.1:43484 ec2-35-161-25-33.u:http CLOSE_WAIT

tcp 1 0 172.16.186.1:54350 del01s08-in-f196.:https ESTABLISHED

tcp 1 0 172.16.186.1:53450 del01s08-in-f194.1:http ESTABLISHED

tcp 1 0 172.16.186.1:53450 del01s08-in-f194.1:http ESTABLISHED

tcp 0 0 172.16.186.1:53450 del01s08-in-f194.1:http ESTABLISHED

tcp 0 0 172.16.186.1:53450 del01s08-in-f194.1:http ESTABLISHED

tcp 0 0 172.16.186.1:53424 ec2-34-208-200-70.:http ESTABLISHED

tcp 0 0 172.16.186.1:33172 bom05s05-in-f14.1e:http ESTABLISHED

tcp 0 0 172.16.186.1:47150 sc-in-f188.1e100.n:5228 ESTABLISHED

tcp 0 0 172.16.186.1:47522 cache.google.com:http ESTABLISHED

tcp 0 0 172.16.186.1:479042 104.16.76.166:https ESTABLISHED

tcp 242 0 172.16.186.1:53072 151.101.192.134:https ESTABLISHED

tcp 1 0 172.16.186.1:53586 maa03s20-in-f48.1e:http ESTABLISHED

tcp 0 0 172.16.186.1:53586 maa03s20-in-f48.1e:http ESTABLISHED

tcp 0 0 172.16.186.1:53586 maa03s20-in-f48.1e:http ESTABLISHED
```

4. List all udp ports.

netstat -au: To list all udp ports.

```
maverick@maverick-Inspiron-5548: ~

maverick@maverick-Inspiron-5548: ~$ netstat -au

Active Internet connections (servers and established)

Proto Recv-Q Send-Q Local Address Foreign Address State

udp 0 0 *:45967 *:*

udp 0 0 *:mdns *:*

udp 0 0 0*:mdns *:*

udp 0 0 0*:56017 *:*

udp 0 0 072.16.186.1:56967 bom05s05-in-f5.1e:https ESTABLISHED

udp 0 0 maverick-Inspiro:domain *:*

udp 0 0 *:bootpc *:*

udp 0 0 172.16.186.1:49779 sc-in-f189.1e100.:https ESTABLISHED

udp 0 0 *:ipp *:*

udp 0 0 *:ipp *:*

udp6 0 0 [::]:mdns [::]:*

udp6 0 0 [::]:mdns [::]:*

udp6 0 0 [::]:44437 [::]:*

maverick@maverick-Inspiron-5548:~$
```

5. List only listening ports.

netstat -1: To list only the listening ports.

6. List only listening TCP ports.

netstat -lt: To list only the listening top ports.

```
maverick@maverick-Inspiron-5548:~

maverick@maverick-Inspiron-5548:~$ netstat -lt

Active Internet connections (only servers)

Proto Recv-Q Send-Q Local Address Foreign Address State

tcp 0 maverick-Inspiro:domain *:* LISTEN

maverick@maverick-Inspiron-5548:~$

I
```

7. List only listening UDP ports.

netstat -lu: To list only the listening udp ports.

```
maverick@maverick-Inspiron-5548: ~
maverick@maverick-Inspiron-5548:~$ netstat -lu
Active Internet connections (only servers)
roto Recv-Q Send-Q Local Address
dp 0 0 *:45967
dp 0 0 *:mdns
                                                        Foreign Address
qbu
abı
                   0 *:mdns
0 *:56017
0 maverick-Inspiro:domain
αbı
dþ
                     0 *:bootpc
 dρ
                     0 *:ipp
 dρ
                     0 [::]:mdns
0 [::]:mdns
0 [::]:44437
dp6
і фоб
ıdp6
maverick@maverick-Inspiron-5548:~$
```

8. List only the listening UNIX ports

netstat -lx: To list only the listening UNIX ports.

```
maverick@maverick-Inspiron-5548: ~
naverick@maverick-Inspiron-5548:~$ netstat -lx
ctive UNIX domain so
roto RefCnt Flags
nix 2 [ ACC ]
e.kWPpRY/SingletonSo
                                             ts (only
Type
STREAM
 nix 2
/private
nix 2
nix 2
                       [ ACC ]
                       [ ACC ]
                                              SEQPACKET
STREAM
                                                                    LISTENING
LISTENING
                                                                                                                 /run/udev/control
/run/user/1000/keyrin
                                                                                               196
23601
                                                                                                                 /run/snapd-snap.socke
                       [ ACC ]
[ ACC ]
[ ACC ]
                                                                                                                /tmp/.ICE-unix/1561
/run/acpid.socket
/tmp/.X11-unix/X0
/run/user/1000/keyrin
                                              STREAM
STREAM
                                                                    LISTENING
LISTENING
                                                                                               23118
17049
 nix 2
nix 2
nix 2
/pkcs11
nix 2
                                              STREAM
STREAM
                                                                    LISTENING
LISTENING
                                                                                               20791
23636
nix 2
/ssh
                                                                                                                 /run/uuidd/request
/run/user/1000/pulse
                                              STREAM
STREAM
                                                                    LISTENING
LISTENING
                                                                                               17051
23727
                       [ ACC ]
```

9. List the statistics for all ports.

netstat -s: To list the statistics for all ports.

```
maverick@maverick-Inspiron-5548:~

maverick@maverick-Inspiron-5548:~

Ip:

15696 total packets received

13 with invalid addresses

0 forwarded

22 with unknown protocol

0 incoming packets discarded

15696 total packets discarded

15696 incoming packets delivered

10885 requests sent out

84 outgoing packets dropped

2 dropped because of missing route

Icmp:

173 ICMP messages received

0 input ICMP message falled.

ICMP input histogram:

destination unreachable: 173

188 ICMP messages falled

ICMP output histogram:

destination unreachable: 188

IcmpMsg:

InType3: 173

OutType3: 188

Tcp:

172 active connections openings

0 passive connection openings

2 failed connection attempts

40 connection resets received

7 connections established

4641 segments received

7265 segments send out
```

10. List the statistics for TCP (or) UDP ports.

netstat -st(TCP): To list the statistics for TCP ports.

```
maverick@maverick-Inspiron-5548: ~
naverick@maverick-Inspiron-5548:~$ netstat -st
     InType3: 173
     OutType3: 188
     172 active connections openings
    O passive connection openings
2 failed connection attempts
43 connection resets received
7 connections established
     4650 segments received
     7274 segments send out
    13 segments retransmited
11 bad segments received.
48 resets sent
 dpLite:
 cpExt:
        TCP sockets finished time wait in fast timer
    141 delayed acks sent
Quick ack mode was activated 18 times
417 packet headers predicted
1328 acknowledgments not containing data payload received
2261 predicted acknowledgments
     2 times recovered from packet loss by selective acknowledgements
     1 forward retransmits
TCPLossProbes: 10
TCPLossProbeRecovery: 5
     18 DSACKs sent for old packets
     5 DSACKs received
     9 connections reset due to unexpected data
     22 connections reset due to early user close TCPDSACKIgnoredNoUndo: 1
```

netstat -su(UDP): List the statistics for UDP ports.

```
maverick@maverick-Inspiron-5548: ~
naverick@maverick-Inspiron-5548:~$ netstat -su
Iave
IcmpMsg:
InType3: 173
   OutType3: 188
Jdp:
   4222 packets received
   188 packets to unknown port received.
   O packet receive errors
   3464 packets sent
    IgnoredMulti: 7067
JdpLite:
pExt:
   InMcastPkts: 43
   OutMcastPkts: 73
   InBcastPkts: 7092
   OutBcastPkts: 3
   InOctets: 5306626
OutOctets: 8520851
   InMcastOctets: 4828
   OutMcastOctets: 10508
   InBcastOctets: 820938
   OutBcastOctets: 234
InNoECTPkts: 16809
maverick@maverick-Inspiron-5548:~$
```

11. **Display PID and program names in the output.**# netstat -pt: To display the PID and program names.

```
maverick@maverick-Inspiron-5548: ~
Naverick@maverick-Inspiron-5548:~$ netstat -pt
Not all processes could be identified, non-owned process info
will not be shown, you would have to be root to see it all.)
Active Internet connections (w/o servers)
roto Recv-Q Send-Q Local Address
ID/Program name
                                                          Foreign Address
                                                          mulberry.canonical:http CLOSE_WAIT
CP
696/ubuntu-geoip-p
0 172.16.186.1:43522
                                                          ec2-35-161-25-33.u:http ESTABLISHED
                      0 172.16.186.1:46572
                                                          104.244.42.136:https
                                                                                           ESTABLISHED
                                                          sc-in-f188.1e100.n:5228 ESTABLISHED
                      0 172.16.186.1:47150
                      0 172.16.186.1:49042
                                                          104.16.76.166:https
                                                                                           ESTABLISHED
                                                                                           ESTABLISHED
                       0 172.16.186.1:43518
                                                          ec2-35-161-25-33.u:http TIME_WAIT
                                                          ec2-35-161-25-33.u:http CLOSE_WAIT
```

12. Print the netstat information continuously.

netstat will print information continuously every few seconds.

netstat -c: To print the netstat information continuously.

```
maverick@maverick-Inspiron-5548: ~
maverick@maverick-Inspiron-5548:~$ netstat -c
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address
                                              Foreign Address
                                                                        State
                  0 172.16.186.1:53718
                                              mulberry.canonical:http CLOSE_WAIT
tcp
           0
                  0 172.16.186.1:46572
                                              104.244.42.136:https
                                                                       ESTABLISHED
tcp
                  0 172.16.186.1:47150
                                              sc-in-f188.1e100.n:5228 ESTABLISHED
tcp
           0
tcp
           0
                  0 172.16.186.1:43526
                                              ec2-35-161-25-33.u:http ESTABLISHED
                                              172.16.184.:netbios-ssn ESTABLISHED
tcp
                  0 172.16.186.1:33574
           0
                  0 172.16.186.1:50507
                                              bom05s05-in-f5.1e:https ESTABLISHED
udp
                  0 172.16.186.1:49779
                                              sc-in-f189.1e100.:https ESTABLISHED
udp
           0
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags
                                                    I-Node
                          Туре
                                      State
                                                              Path
                          DGRAM
                                                              /run/user/1000/system
unix 2
                                                    21391
d/notify
                          DGRAM
                                                    21073
                                                              /run/wpa_supplicant/w
unix
lp3s0
unix 2
                          DGRAM
                                                    21098
                                                              /run/wpa_supplicant/p
2p-dev-wlp3s0
unix 3
unix 18
                          DGRAM
                                                    10423
                                                              /run/systemd/notify
                          DGRAM
                                                    194
                                                              /run/systemd/journal
dev-log
unix 2
                          DGRAM
                                                    195
                                                              /run/systemd/journal
syslog
                          DGRAM
                                                              /run/systemd/journal
unix
                                                     198
```

13. The non-supportive address families in the system.

netstat --verbose: To get the non-supportive address families in the system.

```
maverick@maverick-Inspiron-5548: -
naverick@maverick-Inspiron-5548:~$ netstat
                                                                        --verbose
ctive Internet connections (w/o servers)
roto Recv-Q Send-Q Local Address
                                                                         Foreign Address
                       end-Q Local Address
0 172.16.186.1:53718
0 172.16.186.1:46572
0 172.16.186.1:47150
0 172.16.186.1:43526
0 172.16.186.1:33574
0 172.16.186.1:43507
                                                                         mulberry.canonical:http CLOSE_WAIT
104.244.42.136:https ESTABLISHED
                                                                        104.244.42.136:https ESTABLISHED sc-in-f188.1e100.n:5228 ESTABLISHED ec2-35-161-25-33.u:http ESTABLISHED 172.16.184.:netbios-ssn ESTABLISHED
                                                                         bom05s05-in-f5.1e:https ESTABLISHED
ctive UNIX domain sockets (w/o servers)
roto RefCnt Flags Type Stat
nix 2 [ ] DGRAM
roto RefCnt Flags
nix 2 []
                                                           State
                                                                                   I-Node
                                                                                                   /run/user/1000/system
nix 2
.p3s0
                                         DGRAM
                                                                                                   /run/wpa_supplicant/w
p-dev-wlp3s0
nix 3
                                                                                   21098
                                                                                                   /run/wpa_supplicant/p
nix 3
nix 18
                                                                                    10423
                                                                                                   /run/systemd/notify
                                         DGRAM
                                                                                                   /run/systemd/journal,
ev-log
nix 2
                                         DGRAM
                                                                                                   /run/systemd/journal
                     [ ]
 vslog
                                         DGRAM
                                                                                                   /run/svstemd/iourn
```

At the end, we have something like this:

```
maverick@maverick-Inspiron-5548: ~
                                                                                 21891
                                        DGRAM
STREAM
STREAM
                                                                                 20552
27661
23309
                                                          CONNECTED
                                                                                                @/tmp/.X11-unix/X0
                                                          CONNECTED CONNECTED
                                                                                                @/tmp/dbus-4YUuFDu9Yp
                                        STREAM
                                                                                 22028
                                                          CONNECTED
                                                                                                /run/systemd/journal,
                                                          CONNECTED
                                                          CONNECTED
                                        DGRAM
                                        DGRAM
                                                          CONNECTED
                                                                                 25381
 us_socket
nix 3
                                                          CONNECTED
                                                                                                /var/run/dbus/system
 etstat: no support for etstat: no support for
 etstat: no support for `AF AX25' on this system.
etstat: no support for `AF X25' on this system.
etstat: no support for `AF X25' on this system.
etstat: no support for `AF NETROM' on this system.
maverick@maverick-Inspiron-5548:~$
```

14. The kernel routing information.

netstat -r: To get the kernel routing information.

15. The port on which a program is running.

netstat -ap | grep ssh : To get the port on which a program is running.

```
maverick@maverick-Inspiron-5548:~
maverick@maverick-Inspiron-5548:~
Maverick@maverick-Inspiron-5548:~
Maverick@maverick-Inspiron-5548:~
Maverick@maverick-Inspiron-5548:~
Mill not be shown, you would have to be root to see it all.)
Mull not be shown, you would have to be root to see it all.)
Mull not be shown, you would have to be root to see it all.)
Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown, you would have to be root to see it all.)

Mull not be shown have to be root to see it all.)

Mull not be shown, you would h
```

16. Which process is using a particular port:

netstat -an | grep ':80': To get the process which is using the given port.

17. List of network interfaces.

netstat -i : To get the list of network interfaces.

Display extended information on the interfaces (similar to ifconfig) using netstat -ie:

netstat -ie: To display extended information on the interfaces

```
maverick@maverick-Inspiron-5548: ~
maverick@maverick-Inspiron-5548:~$ netstat -ie
Cernel Interface table
              Link encap:Ethernet HWaddr 34:17:eb:85:04:3e
              UP BROADCAST MULTICAST MTU:1500 Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
              TX packets:0 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000
RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)
O
              Link encap:Local Loopback
              inet addr:127.0.0.1 Mask:255.0.0.0
inet6 addr: ::1/128 Scope:Host
UP LOOPBACK RUNNING MTU:65536 Metric:1
              RX packets:1173 errors:0 dropped:0 overruns:0 frame:0
              TX packets:1173 errors:0 dropped:0 overruns:0 carrier:0
              collisions:0 txqueuelen:1
RX bytes:129482 (129.4 KB) TX bytes:129482 (129.4 KB)
              Link encap:Ethernet HWaddr d0:7e:35:80:19:cf inet addr:172.16.186.1 Bcast:172.16.191.255 Mask:255.255.240.0 inet6 addr: fe80::73eb:2667:ac27:f6fc/64 Scope:Link UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
lp3s0
              RX packets:22037 errors:0 dropped:0 overruns:0 frame:0 TX packets:10901 errors:0 dropped:0 overruns:0 carrier:0
              collisions:0 txqueuelen:1000
              RX bytes:6545495 (6.5 MB) TX bytes:8912983 (8.9 MB)
maverick@maverick-Inspiron-5548:~$
```

How to check if TCP / UDP port is open on Linux & Windows Cloud Servers

The following are the common port numbers:

Ports 0 to 1023 are Well-Known Ports

Ports 1024 to 49151 are Registered Ports (*Often registered by a software developer to designate a particular port for their application)

Ports 49152 to 65535 are Public Ports

20,21	FTP	TCP
22	SSH	TCP and UDP
23	Telnet	TCP
25	SMTP	TCP
50,51	IPSec	/
53	DNS	TCP and UDP
67,68	DHCP	UDP
69	TFTP	UDP
80	HTTP	TCP
110	POP3	TCP
119	NNTP	TCP
123	NTP	TCP
135-139	NetBIOS	TCP and UDP
143	IMAP	TCP and UDP
161,162	SNMP	TCP and UDP
389	Lightweight Directory Access	TCP and UDP
443	HTTPS	TCP and UDP
465	SMTP over SSL	TCP
989	FTP Protocol (data) over TLS/SSL	TCP and UDP
990	FTP Protocol (data) over TLS/SSL	TCP and UDP

993	IMAP over SSL	TCP
995	POP3 over SSL	TCP
3389	Remote Desktop	TCP and UDP

Using netstat command

netstat (network statistics) is a command-line tool that can be used to monitor both incoming and outgoing network connections in a server.

The netstat command along with the grep command to check the listening services can be used in the below syntax

netstat -tulpn | grep LISTEN

netstat -nat | grep LISTEN (for OpenBSD systems)

```
~]# netstat -tulpn | grep LISTEN 0 0.0.0.0:110 0.0.0 0 0.0.0:143 0.0.0 0 0.0.0:8880 0.0.0 0 0.0.0.0:465 0.0.0
                                                           0.0.0.0:*
                                                                                                             804/dovecot
                                                           0.0.0.0:*
                                                                                                             804/dovecot
tcp
                                                                                                             827/sw-cp-server: m
                                                           0.0.0.0:*
                                                                                                             1805/master
                       0 123.123.123.12:53
0 127.0.0.1:53
                                                           0.0.0.0:*
                                                                                                             812/named
tcp
                                                                                                             812/named
                       0 0.0.0.0:22
0 0.0.0.0:25
0 127.0.0.1:953
0 0.0.0.0:8443
0 0.0.0.0:4190
                                                                                                             768/sshd
                                                           0.0.0.0:*
                                                                                                             1805/master
tcp
                                                                                                             812/named
tcp
tcp
                                                                                                             827/sw-cp-server: m
                                                           0.0.0.0:*
              0
                                                                                                             804/dovecot
              0
                                                           0.0.0.0:*
                        0 127.0.0.1:12768
                                                                                                             755/psa-pc-remote
tcp
                       0 0.0.0.0:993
0 0.0.0.0:995
                                                           0.0.0.0:*
                                                                                                             804/dovecot
tcp
                                                            0.0.0.0:*
                                                                                                             804/dovecot
                       0 :::110
0 :::143
                                                                                                             804/dovecot
                                                                                                             804/dovecot
tcp6
tcp6
                                                                                                             902/httpd
tcp6
                        0 :::8880
                                                                                                             827/sw-cp-server: m
              0
                        0 :::465
                                                                                                             1805/master
tcp6
                        0 :::53
                                                                                                             812/named
                                                                                                             767/xinetd
tcp6
                                                                                                             768/sshd
                                                                                                             1805/master
```

netstat command has been deprecated in the latest versions of Linux distribution. The ss command has taken its place.

The syntax for using the ss command is as provided below: # sudo ss -tulpn

```
t@layerstack
                   l# sudo ss -tulwn
      State
                   Recv-Q Send-Q
                                              Local Address:Port
                                                                                               Peer Address:Port
       UNCONN
                                             123.123.123.12:53
       UNCONN
                                                  127.0.0.1:53
       UNCONN
      UNCONN
                          0
udp
      UNCONN
                                                          ...18601
                                                           *:110
       LISTEN
                  0
                          100
                                                           *:143
                  0
tcp
       LISTEN
                          100
                                                           *:8880
                  0
tcp
       LISTEN
                          128
       LISTEN
tcp
                          100
       LISTEN
                                             123.123.123.12:53
tcp
                          10
       LISTEN
                          10
                                                  127.0.0.1:53
tcp
       LISTEN
```

The switches for the ss command mean as follows:

- t: Show only TCP sockets.
- u: Show only UDP sockets.
- 1: Show listening sockets.
- p: Show the name of the process that opened the socket.
- n: Do not try to resolve service names.