netstat command

netstat command is ubiquitous in most Unix and Windows implementations. It can be used to get information about various aspects of your current network status.

Here is the output from *netstat -an* command on the linux workstation in HUM301. Only part of the output is shown.

we will learn the significance of the different fields in the output later in the course

```
hum301-01:~$ netstat -an
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address               Foreign Address             State
tcp        0      0 0.0.0.0:32770               0.0.0.0:*                   LISTEN
tcp        0      0 0.0.0.0:32775               0.0.0.0:*                   LISTEN
tcp        0      0 0.0.0.0:111                 0.0.0.0:*                   LISTEN
tcp        0      0 127.0.0.1:631               0.0.0.0:*                   LISTEN
tcp        0      0 127.0.0.1:25                0.0.0.0:*                   LISTEN
tcp        0      0 127.0.0.1:6010              0.0.0.0:*                   LISTEN
tcp        0      0 137.140.4.101:799           137.140.7.101:2049          ESTABLISHED
tcp        0      0 137.140.4.101:798           137.140.7.101:2049          ESTABLISHED
tcp        0      0 137.140.4.101:800           137.140.7.101:2049          ESTABLISHED
tcp        0      0 137.140.4.101:32810         137.140.7.101:636           ESTABLISHED
tcp        0      0 137.140.4.101:32788         137.140.7.101:636           ESTABLISHED
tcp        0      0 137.140.4.101:32787         137.140.7.101:636           ESTABLISHED
tcp        0      0 137.140.4.101:32769         137.140.7.101:636           ESTABLISHED
tcp        0      0 :::22                       :::*                        LISTEN
tcp        0      0 ::1:6010                    :::*                        LISTEN
tcp        0   2560 ::ffff:137.140.4.101:22     ::ffff:68.174.242.175:54933 ESTABLISHED
udp        0      0 0.0.0.0:32768               0.0.0.0:*
udp        0      0 0.0.0.0:32769               0.0.0.0:*
udp        0      0 0.0.0.0:514                 0.0.0.0:*
udp        0      0 0.0.0.0:984                 0.0.0.0:*
udp        0      0 0.0.0.0:111                 0.0.0.0:*
```

Output from *netstat -ar* command:

we will learn later that this gives the routing table on this host machine

```
hum301-01:~$ netstat -ar
Kernel IP routing table
Destination     Gateway         Genmask         Flags   MSS Window  irtt Iface
137.140.4.0     *               255.255.255.0   U         0 0          0 eth0
169.254.0.0     *               255.255.0.0     U         0 0          0 eth0
default         137.140.4.250   0.0.0.0         UG        0 0          0 eth0
hum301-01:~$
```

netstat with /help switch run on a Windows XP machine