```
user@AA3209-Ubuntu:~$ ip address show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1
000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens160: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group defa
ult qlen 1000
    link/ether 00:50:56:88:17:5f brd ff:ff:ff:ff:
    inet 172.21.0.138/28 brd 172.21.0.143 scope global dynamic ens160
        valid_lft 68228sec preferred_lft 68228sec
    inet6 fe80::250:56ff:fe88:175f/64 scope link
        valid_lft forever preferred_lft forever
user@AA3209-Ubuntu:~$
```

T2

```
user@AA3209-Ubuntu:~$ ping www.ubuntu.com
PING www.ubuntu.com (91.189.91.44) 56(84) bytes of data.
64 bytes from elvira.canonical.com (91.189.91.44): icmp seq=1 ttl=46 time=119 ms
64 bytes from elvira.canonical.com (91.189.91.44): icmp_seq=2 ttl=46 time=119 ms
64 bytes from elvira.canonical.com (91.189.91.44): icmp_seq=3 ttl=46 time=119 ms
64 bytes from elvira.canonical.com (91.189.91.44): icmp seq=4 ttl=46 time=119 ms
--- www.ubuntu.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3002ms
rtt min/avg/max/mdev = 119.266/119.385/119.495/0.097 ms
user@AA3209-Ubuntu:~$ ping www.linux.org
PING www.linux.org (104.21.80.209) 56(84) bytes of data.
64 bytes from 104.21.80.209 (104.21.80.209): icmp seq=1 ttl=53 time=6.33 ms
64 bytes from 104.21.80.209 (104.21.80.209): icmp seq=2 ttl=53 time=6.37 ms
64 bytes from 104.21.80.209 (104.21.80.209): icmp seq=3 ttl=53 time=6.45 ms
^C
user@AA3209-Ubuntu:~$ ping www.kernel.org
PING fra.git.kernel.org (136.144.49.103) 56(84) bytes of data.
```

```
user@AA3209-Ubuntu:/etc$ cat hosts
127.0.0.1 localhost
127.0.1.1 ubuntu

# The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
user@AA3209-Ubuntu:/etc$ sudo nano hosts
[sudo] password for user:
```

```
user@AA3209-Ubuntu: /etc
                                                                        Modified
 GNU nano 4.8
                                      hosts
127.0.0.1 localhost
127.0.1.1 ubuntu
91.189.91.44 homepage
104.21.80.209 Iforum
136.144.49.103 karch
The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
            ^O Write Out ^W Where Is ^K Cut Text
                                                   ^J Justify
                                                                ^C Cur Pos
               Read File ^\ Replace
                                                                   Go To Line
                                      ^U Paste Text^T To Spell
```

```
user@AA3209-Ubuntu:~$ ping homepage
PING homepage (91.189.91.44) 56(84) bytes of data.
64 bytes from homepage (91.189.91.44): icmp_seq=1 ttl=46 time=119 ms
64 bytes from homepage (91.189.91.44): icmp_seq=2 ttl=46 time=119 ms
64 bytes from homepage (91.189.91.44): icmp_seq=3 ttl=46 time=119 ms
64 bytes from homepage (91.189.91.44): icmp_seq=4 ttl=46 time=120 ms
64 bytes from homepage (91.189.91.44): icmp_seq=5 ttl=46 time=119 ms
64 bytes from homepage (91.189.91.44): icmp_seq=6 ttl=46 time=119 ms
```

```
user@AA3209-Ubuntu:~$ ping Iforum

PING Iforum (104.21.80.209) 56(84) bytes of data.

64 bytes from Iforum (104.21.80.209): icmp_seq=1 tt1=53 time=6.28 ms

64 bytes from Iforum (104.21.80.209): icmp_seq=2 tt1=53 time=6.35 ms

64 bytes from Iforum (104.21.80.209): icmp_seq=3 tt1=53 time=6.32 ms

64 bytes from Iforum (104.21.80.209): icmp_seq=4 tt1=53 time=6.42 ms

64 bytes from Iforum (104.21.80.209): icmp_seq=5 tt1=53 time=6.49 ms

64 bytes from Iforum (104.21.80.209): icmp_seq=5 tt1=53 time=6.39 ms

^C
--- Iforum ping statistics ---

5 packets transmitted, 5 received, 0% packet loss, time 4006ms

rtt min/avg/max/mdev = 6.281/6.352/6.421/0.048 ms

user@AA3209-Ubuntu:~$
```

```
user@AA3209-Ubuntu:~$ ping karch
PING karch (136.144.49.103) 56(84) bytes of data.
64 bytes from karch (136.144.49.103): icmp_seq=1 ttl=44 time=30.7 ms
64 bytes from karch (136.144.49.103): icmp_seq=2 ttl=44 time=30.8 ms
64 bytes from karch (136.144.49.103): icmp_seq=3 ttl=44 time=30.8 ms
^C
--- karch ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2004ms
rtt min/avg/max/mdev = 30.669/30.766/30.833/0.070 ms
```

T3

```
user@AA3209-Ubuntu:~$ netstat -1
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address
                                    Foreign Address
                                                         State
            0 localhost:domain
tcp 0
                                    0.0.0.0:*
              0 0.0.0.0:ssh
tcp
                                    0.0.0.0:*
                                                         LISTEN
tcp6
             0 [::]:http
                                    [::]:*
                                                         LISTEN
tcp6
             0 [::]:ssh
                                    [::]:*
                                                         LISTEN
udp
             0 localhost:domain
                                    0.0.0.0:*
udp
              0 AA3209-Ubuntu:bootpc 0.0.0.0:*
raw6 0 0 [::]:ipv6-icmp
                                     [::]:*
Active UNIX domain sockets (only servers)
Proto RefCnt Flags Type State
                                         I-Node Path
                   SEQPACKET LISTENING
unix 2
         [ ACC ]
                                         16433
                                                 /run/udev/control
                                         8796975 /run/user/1000/system
unix 2
                   STREAM LISTENING
          [ ACC ]
d/private
                                        8796981 /run/user/1000/bus
                   STREAM
unix 2
          [ ACC ]
                             LISTENING
unix 2
          [ ACC ]
                    STREAM
                             LISTENING
                                         8796982 /run/user/1000/gnupg/
S.dirmngr
```

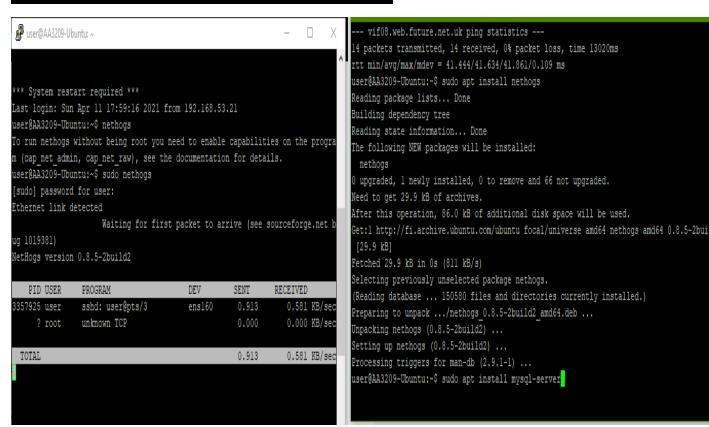
T4

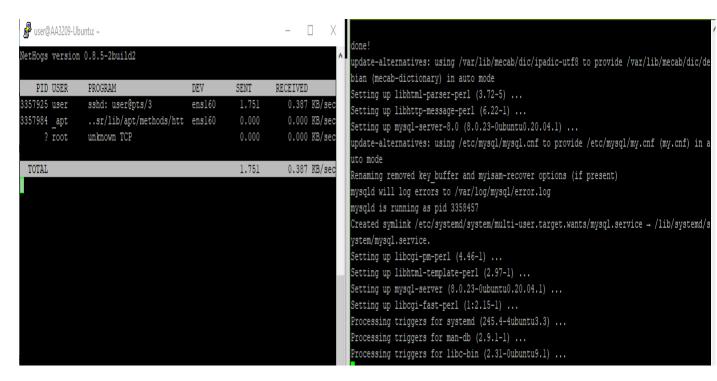
```
user@AA3209-Ubuntu:~$ ping www.techradar.com
PING vif08.web.future.net.uk (185.113.25.55) 56(84) bytes of data.
64 bytes from vif08.web.future.net.uk (185.113.25.55): icmp seq=1 tt1=43 time=41
.6 ms
64 bytes from vif08.web.future.net.uk (185.113.25.55): icmp seq=2 ttl=43 time=41
.7 ms
64 bytes from vif08.web.future.net.uk (185.113.25.55): icmp seq=3 ttl=43 time=41
.9 ms
64 bytes from vif08.web.future.net.uk (185.113.25.55): icmp_seq=4 ttl=43 time=41
.7 ms
64 bytes from vif08.web.future.net.uk (185.113.25.55): icmp seq=5 ttl=43 time=41
.6 ms
64 bytes from vif08.web.future.net.uk (185.113.25.55): icmp seq=6 ttl=43 time=41.4 ms
64 bytes from vif08.web.future.net.uk (185.113.25.55): icmp_seq=7 ttl=43 time=41.5 ms
64 bytes from vif08.web.future.net.uk (185.113.25.55): icmp_seq=8 ttl=43 time=41.7 ms
64 bytes from vif08.web.future.net.uk (185.113.25.55): icmp_seq=9 tt1=43 time=41.7 ms
64 bytes from vif08.web.future.net.uk (185.113.25.55): icmp_seq=10 tt1=43 time=41.6 ms 64 bytes from vif08.web.future.net.uk (185.113.25.55): icmp_seq=11 tt1=43 time=41.5 ms
64 bytes from vif08.web.future.net.uk (185.113.25.55): icmp_seq=12 tt1=43 time=41.5 ms
64 bytes from vif08.web.future.net.uk (185.113.25.55): icmp_seq=13 ttl=43 time=41.7 ms
64 bytes from vif08.web.future.net.uk (185.113.25.55): icmp_seq=14 ttl=43 time=41.6 ms
 -- vif08.web.future.net.uk ping statistics ---
```

Average ping is 41.6ms and the server that responses is named vifos.web.future.net.uk

T5

user@AA3209-Ubuntu:~\$ sudo apt install nethogs





In Nethog you can see PID and user name that is doing something.

Download speed was approx. 0.5 KB/sec