

1. What is the current IP address on your Ubuntu?

```
user@AC4892-Ubuntu:~$ hostname -i
172.21.6.28 fe80::250:56ff:fe88:96f
```

2. Find IP addresses of the websites listed below. Then add alternative names presented inside brackets for these hostnames into the hosts file. Test names with ping command.

- www.ubuntu.com (homepage)

```
user@AC4892-Ubuntu:~$ ping www.ubuntu.com
PING www.ubuntu.com (185.125.190.20) 56(84) bytes of data.
64 bytes from website-content-cache-1.ps5.canonical.com (185.125.190.20): icmp_seq=1 ttl=44 time=78.7 ms
64 bytes from website-content-cache-1.ps5.canonical.com (185.125.190.20): icmp_seq=2 ttl=44 time=61.1 ms
```

- www.linux.org (lforum)

```
user@AC4892-Ubuntu:~$ ping www.linux.org
PING www.linux.org (172.67.148.63) 56(84) bytes of data.
64 bytes from 172.67.148.63 (172.67.148.63): icmp_seq=1 ttl=53 time=6.39 ms
64 bytes from 172.67.148.63 (172.67.148.63): icmp_seq=2 ttl=53 time=6.65 ms
64 bytes from 172.67.148.63 (172.67.148.63): icmp_seq=3 ttl=53 time=6.54 ms
64 bytes from 172.67.148.63 (172.67.148.63): icmp_seq=4 ttl=53 time=6.27 ms
```

- www.kernel.org (karch)

```
user@AC4892-Ubuntu:~$ ping www.kernel.org
PING ams.source.kernel.org (145.40.68.75) 56(84) bytes of data.
64 bytes from ams.source.kernel.org (145.40.68.75): icmp_seq=1 ttl=45 time=34.0 ms
64 bytes from ams.source.kernel.org (145.40.68.75): icmp_seq=2 ttl=45 time=33.9 ms
64 bytes from ams.source.kernel.org (145.40.68.75): icmp_seq=3 ttl=45 time=34.7 ms
```

3. Use netstat to list all UDP ports your computer is listening.

First we need to install the net tools

```
user@AC4892-Ubuntu:~$ sudo apt install net-tools
```

```

user@AC4892-Ubuntu:~$ netstat -plnt
(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 (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 127.0.0.53:53          0.0.0.0:*               LISTEN      -
tcp        0      0 0.0.0.0:22             0.0.0.0:*               LISTEN      -
tcp6       0      0 :::22                  :::*                    LISTEN      -

```

4. Test the connectivity to address *www.techradar.com* with ping command using ten packets. What is the average ping time and what is the name of the server that responds?

```

user@AC4892-Ubuntu:~$ ping www.techradar.com 10
PING 10 (0.0.0.10) 56(124) bytes of data.
^C
--- 10 ping statistics ---
3 packets transmitted, 0 received, 100% packet loss, time 2003ms

```

5. Install a network monitor tool called *NetHogs* to your Ubuntu. Open a new SSH connection to your virtual machine (for example using Putty) and start NetHogs tool through this window. Now install MySQL server from the other window using the command presented below. How is this installation process shown in NetHogs and what is approximately the download speed (KB/sec)?

```

user@AC4892-Ubuntu:~$ sudo apt install nethogs

```

```

user@AC4892-Ubuntu:~$ sudo nethogs

```

PID	USER	PROGRAM	DEV	SENT	RECEIVED
241981	user	sshd: user@pts/1	ens160	0.674	0.141 KB/sec
822	root	/usr/lib/spard/spard	ens160	0.000	0.000 KB/sec