Setting up a static IP address on the Raspberry Pi

For this workshop we will use a static IP address between two computers.

Edit the network configuration file

First either launch lxterminal from the desktop, or login to the console.

Edit the network configuration file by typing :

```
sudo nano /etc/network/interfaces
```

Change `iface eth0 inet dhcp` to `iface eth0 inet static`

Directly below this line, put the following information:

```
address 192.168.0.PiNumber
netmask 255.255.255.0
network 192.168.0.0
broadcast 192.168.0.255
gateway 192.168.0.1
```

Make sure you put the number of your Pi in place of PiNumber.

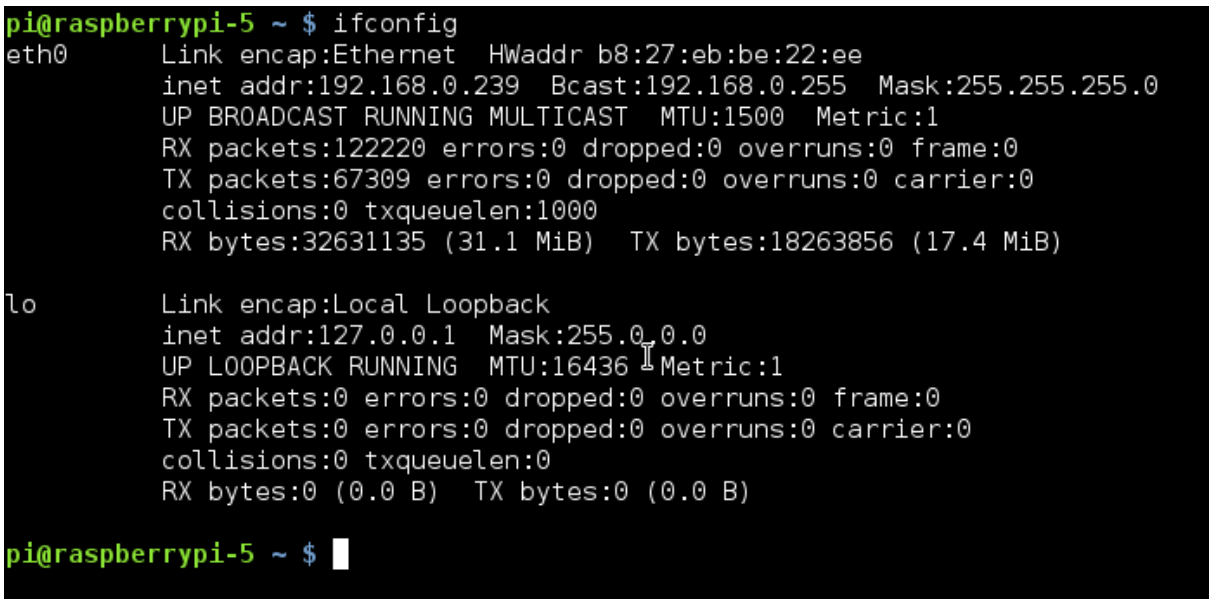
Save the file by pressing CTRL + X, then press the y key and then press the enter key. Then type:

```
sudo reboot
```

Now that the Raspberry Pi has been rebooted, it should have the static IP address configured.

Confirming your new static IP address

Type in `ifconfig` to confirm that the IP address has changed. The screenshot below is an example where it has been set to 192.168.0.239

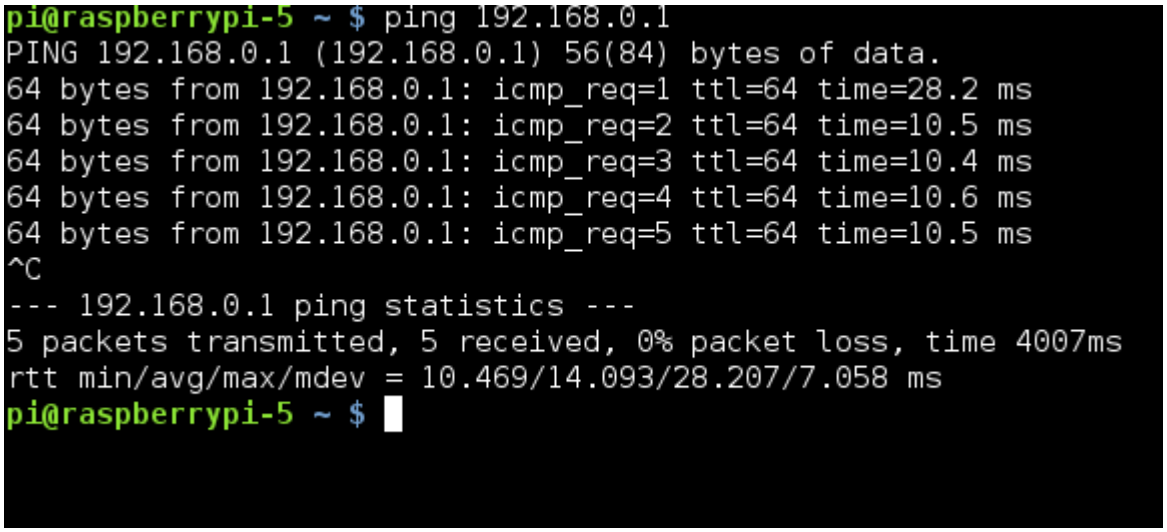


Checking that you can communicate with another device

First either launch lxterminal from the desktop, or log in to the console.
Then type in the following, replacing the number 2 with the number of the other device you want to ping.

```
ping 192.168.0.2
```

You should then see a screen like this:



Then Press CTRL + C to stop the ping program if ping is successful.

This confirms that network communication was possible from the Pi to the device.

You can also use a website domain such as `www.google.com` to ping the outside network, if connected.