

Network configuration of Raspberry Pi.

The following files control the network settings, for example static IP-address or using DHCP .

```
/etc/network/interfaces
/etc/resolv.conf
/etc/hosts
/etc/hostname
```

Update these files according to your situation, see below for examples.

You can retrieve your current IP-address, broadcast and mask by this command
`sudo ifconfig`

and the current gateway IP-address by
`sudo route -nee`

1. The Pi's ip-address is determined by the file `/etc/network/interfaces`.

This is a typical dhcp configuration (default) of this file

```
auto lo

iface lo inet loopback
iface eth0 inet dhcp

allow-hotplug wlan0
iface wlan0 inet manual
wpa-roam /etc/wpa_supplicant/wpa_supplicant.conf
iface default inet dhcp
```

where dhcp is used for both ethernet and wlan.

For static ethernet and wlan change this file to look like this

```
auto lo

iface lo inet loopback
iface eth0 inet static
address 192.168.0.201
netmask 255.255.255.0
network 192.168.0.0
broadcast 192.168.0.255
gateway 192.168.0.1

allow-hotplug wlan0
iface wlan0 inet manual
wpa-roam /etc/wpa_supplicant/wpa_supplicant.conf
iface default inet static
address 192.168.0.202
netmask 255.255.255.0
network 192.168.0.0
broadcast 192.168.0.255
gateway 192.168.0.1
```

Use nano or some other editor to change the file. Insert your own values for ip-address etc.

2. The DNS addresses are stored in the file `/etc/resolv.conf`

Default is

```
nameserver 192.168.0.1
```

You can change the DNS like this

```
nameserver 192.168.0.1
nameserver 8.8.8.8
```

(where 8.8.8.8 and 8.8.4.4 are Google's nameservers)
or (another example)

```
nameserver 130.244.127.161
nameserver 130.244.127.169
nameserver 8.8.8.8
```

(where 140.244.127.161 etc points to Tele2' DNS)

You are not allowed to have more than 3 nameservers in resolv.conf, or else the resolver will hang during look-up.

3. Don't forget to put your own servername in the files
/etc/hosts and /etc/hostname (instead of "Debian" which is default).

4. Default login on WiFi password protected network

Go to /etc/wpa_supplicant/wpa_supplicant.conf

it should look something like this

```
ctrl_interface=DIR=/var/run/wpa_supplicant GROUP=netdev
update_config=1

network={
    ssid="ssi-name"
    psk="psk-password"
    proto=RSN
    key_mgmt=WPA-PSK
    pairwise=CCMP
    auth_alg=OPEN
}
```

You can change ssid and password as you like. They will be the default for next login