

Wifi Dongle Setup

These directions will lead you through setting up the SL-1504N Wifi dongle on the Raspberry Pi.

NOTE: You probably already know this, but **\$** before a command indicates running as a normal user, while **#** indicates running as root

Setting up the Interface

You will need:

- Your Raspberry Pi running Raspbian
- Your SL-1504N Wifi Dongle

Setup:

1. Run **\$ iwconfig**. Hopefully you should see a wireless interface device (e.g. wlan0)
2. Bring down the interface with **# ifdown <wireless interface device>**.
3. Edit your /etc/network/interfaces file. You will need to be root:
 - a. Replace any existing entries for your wireless interface device with:

```
auto wlan0
iface wlan0 inet dhcp
wpa-conf /etc/wpa_supplicant/wpa_supplicant.conf
```
4. Edit your /etc/wpa_supplicant/wpa_supplicant.conf file. You will need to be root:
 - a. Add the following:

```
network={
    ssid="Your router's Broadcast Name"
    psk="Your router's password"
    proto=<The protocol used by your router (e.g. WEP, WPA2)>
    key_mgmt=<The key management used by your router (WPA-PSK for \
WPA2 worked for me)>
}
```
5. Bring the interface back up with **# ifup <wireless interface device>**. You should see DHCP requests and hopefully one will be successful. (If you're SSHing into your Pi, take note of the ip address you receive)
6. Ping the router with **\$ ping -I <wireless interface device> <your router ip address>**. You should get ping responses.
7. Just to make sure that everything is working, shutdown the Raspberry Pi, unplug the ethernet cable, and restart the Pi. Repeat the ping command without specifying an interface.