

Raspberry Pi setup manual

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LOGIN & PASSWORD

- Login: pi
- Password: mdp
- All lowercases

HOW TO BOOT THE PI

- Insert the micro SD card
- Plug in the power cable and connect to the power
- Push the button on the power cable and you will see the light flashing

HOW TO CONFIGURE WI-FI NETWORK

- Make sure the Wifi adaptor is plugged in one of the USB ports
- Hook up a monitor and a keyboard to the pi, and log into it
- Open the config file: `sudo vim /etc/network/interfaces`
- Modify the wpa-ssid and wpa-psk
- Save the file and reboot
- This is a tutorial I found for multiple wifi access, but haven't tried it yet. <http://www.geeked.info/raspberry-pi-add-multiple-wifi-access-points/>

HOW TO FIND THE IP ADDRESS OF THE PI

- (with monitor) When the pi is connected to wifi and hooked up with a monitor, you can use `sudo ifconfig` to check its IP address
- (without monitor) When the pi is not hooked up with a monitor, you can connect your laptop to the same wifi network and search for the address
 - Make sure the laptop is connected to the same wifi network as the pi
 - Find your laptop's IP address. (With Mac, you can find it in Network Preferences)
 - Use nmap to discover all active hosts in the local network: `sudo nmap -sP <Your laptop IP address>/24`

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- Among all hosts that are active, one of them is the router (or your hotspot), one is your laptop, and the remaining one should be the pi

HOW TO SSH INTO THE PI

- First boot the pi, with the desired wifi configuration
- Then find the IP address of the pi
- ssh into it: `ssh pi<IP address>`, and enter password mdp
- You're all set!

LOCATE THE MDP REPO

- They are in this path: `~/MDP`
- I don't know whether you can pull or push the code changes to GitHub with your username and password. If you cannot, simply leave a note for me and I will do that.