# **Raspberry Pi Laptop Connection**

The Raspberry Pi is basically a miniature Linux-based computer. It has an ARM processor on it.

**Note**: We assume that you Downloaded and installed Pi system image on MicroSD as explained in the Project- A2, Task4, section b

#### 1. Insert the MicroSD card.

Remove the MicroSD from its SD-sized adapter, and insert into the MicroSD slot on the bottom side of the of the motherboard.







### 2. Connect the Raspberry Pi 3 to power.

- Attach the microUSB end of the power cable to the microUSB socket on the Pi.
- If the other end of the power cable is a USB connector (e.g., for the kit), attach to a USB socket (e.g., on your laptop).

If the other end of the power cable is a power block, attach to a power socket.

#### Look for this:

- ☐ A red light should appear, indicating that power is connected to the Pi.
- A green light should flash, indicating that the Pi operating system is booting.

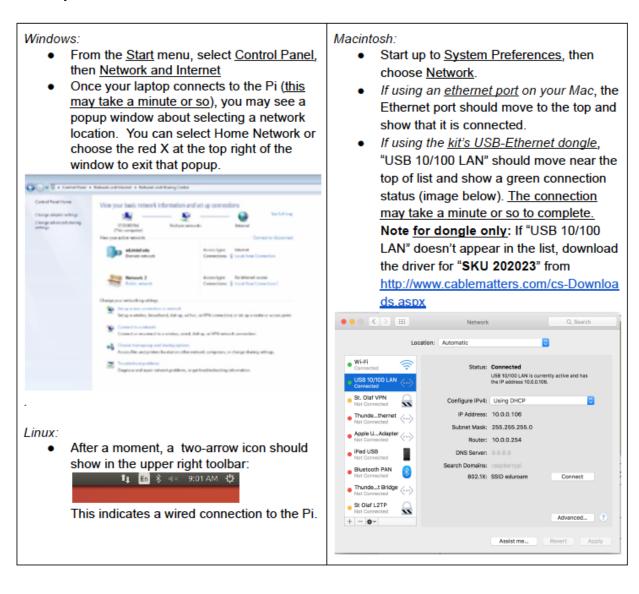
#### 3. Attach your laptop to the Pi.

- If your laptop has an ethernet port, attach the ethernet cable between that laptop ethernet port and the Pi's ethernet port.
- If your laptop doesn't have an ethernet port, connect the USB-to-ethernet dongle to a USB port
  on your laptop, then attach the ethernet cable between that dongle to the Pi's ethernet port



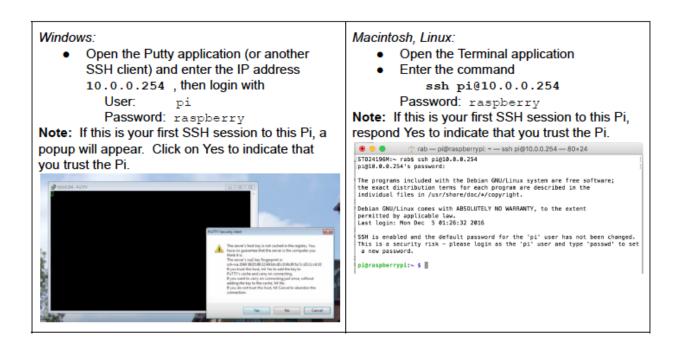


4. Verify an Ethernet network connection to the Pi.



## 5. Log into the Pi using SSH.

Note: Please do not change the password!

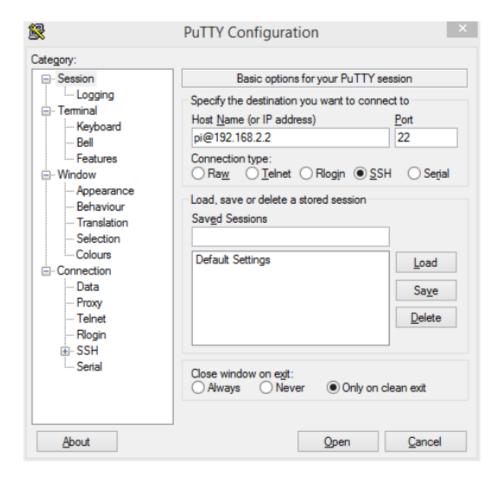


- See the Appendix if you do not have Putty application installed in your Windows machine.

## **Appendix**

#### **PuTTY Tutorial for Windows**

- 1. Download the PuTTY installer at http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html .
- 2. Install PuTTY from the downloaded .exe file.
- 3. After installation, you must be able to find the PuTTY program in the Start Menu.
- 4. In the new PuTTY window that opens, under "Host Name (or IP address)" type in pi@192.168.2.2 (the IP address of the Raspberry Pi) in the host name field and make sure the SSH bubble is clicked so it looks like the picture below:



- a. If all is well, you will be prompted for your password. When a password is requested (almost immediately) enter: "raspberry", which will be displayed as: "\*\*\*\*\*\*\* or nothing at all.
- b. If successful, a new line will appear in the Pi's terminal window containing the Pi's command prompt, which will include the Pi's hostname: "rpi" as well as other information as shown below: