Instructions for setting up your

Raspberry PI

Mesh with a friend today!

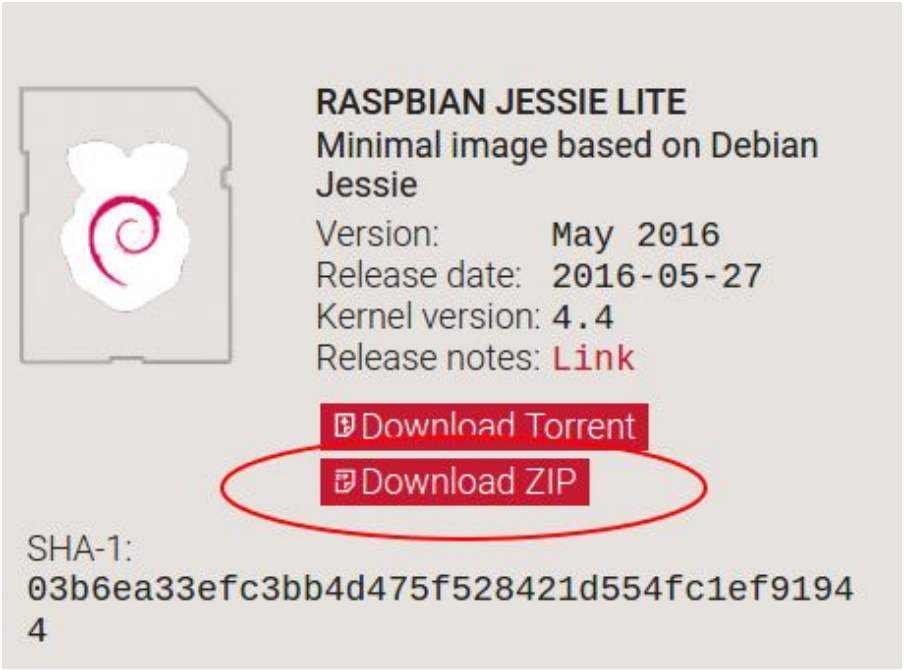
Introduction

Raspberry Pi 2 or 3 may be used as a **meshnet node** by installing the necessary software. The steps below describe how this may be done.

1. Download Raspbian

Raspbian is a Linux distribution **customized** for the Raspberry Pi. It may be downloaded from https://www.raspberrypi.org/downloads/raspbian/

From the **Downloads** page select **Zip** downloads under **Raspbian Jesse Lite**. The Download Torrent option may also be used but requires a bittorrent client.



Information regarding “NOOBS” may be disregarded as we will not be using that system.

The downloaded file should have an **.zip extension**. It must be extracted to the **SD card** correctly so that the Raspberry Pi may be booted from it.

2. Unzip the image file

Various applications may be used to unzip. 7-zip is one common example:

PC/MAC/Linux:

http://www.7-zip.org/download.html

Unzip the .zip file and extract it to the location of your choice on your **local** computer hard drive. Once extracted the image file will display an **.img** extension.

3. Create a Bootable SD card

Once the image file has been unzipped, the resulting **.img** file must be **loaded onto the sd card** properly so that the Raspberry Pi can **boot** from it.

Raspberrypi.org provide instructions for doing this below:

Linux

MAC

Windows

4. Boot Raspbian

Connect any peripherals to the Pi such as keyboard/mouse/display and ethernet.

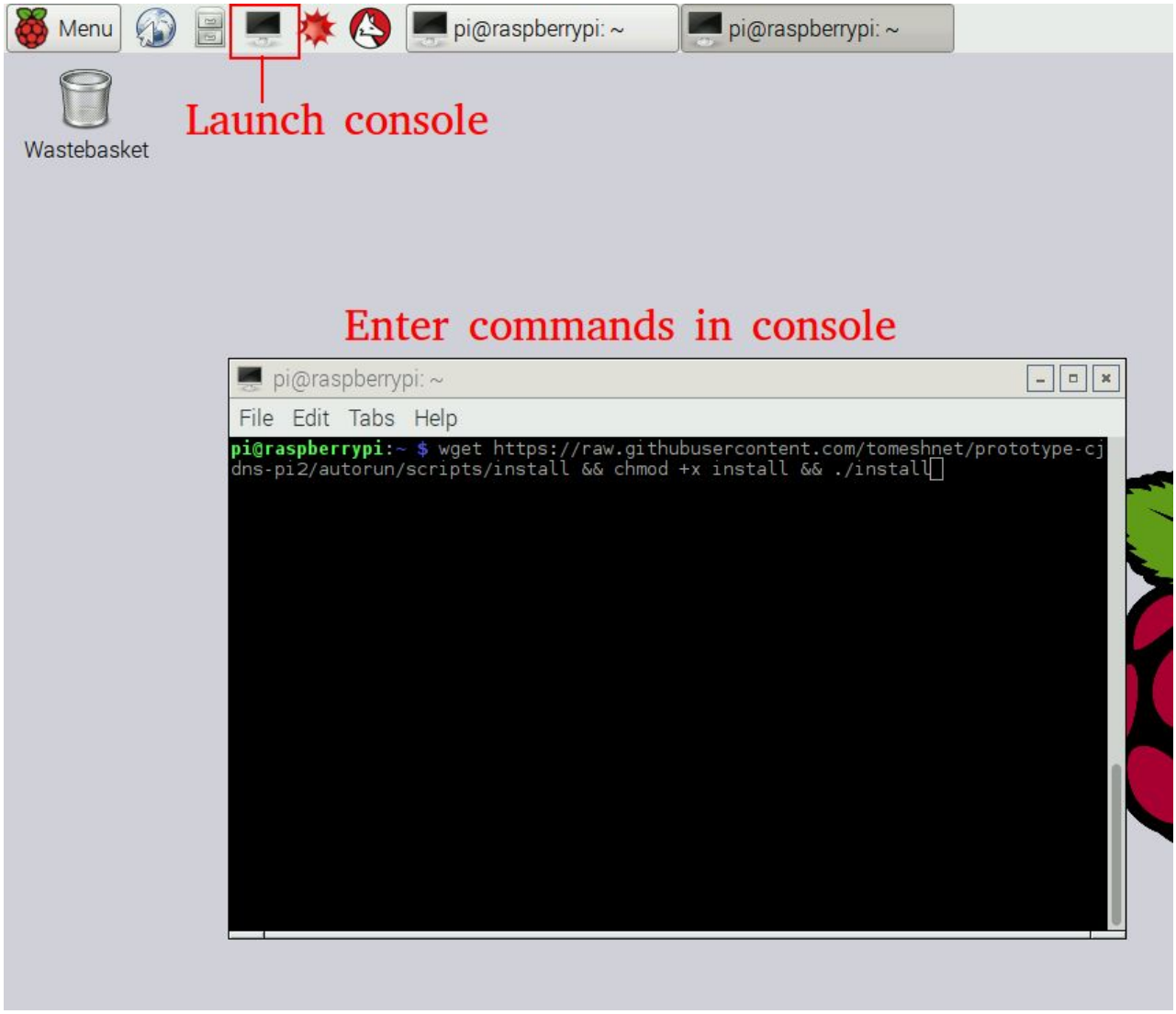
A live **internet connection** will be needed to download the mesh software.

a. **Insert** the **sd card** into the PI's on board card reader and **connect power**.
b. Once the bootup sequence completes you will see the Raspberry Pi desktop. You've installed Raspbian.

5. Install the mesh software.

TOMESH software can be installed either using the graphical desktop or by logging into the node remotely using **SSH**, user: **pi** and password **raspberry**.

If using the desktop, click the **terminal icon** to launch a command prompt.



At the prompt, enter/paste the following line of commands:

wget https://raw.githubusercontent.com/tomeshnet/prototype-cjdns-pi2/master/scripts/install && chmod +x install && ./install

After a few minutes of compiling, the scripts will complete and cjdns will automatically be launched (cjdroute). The user will be **logged out** of the system if using **SSH** but can log back in immediately.

6. Uninstall

To uninstall the software, run the script below:

prototype-cjdns-pi2/scripts/uninstall

This will remove all symlinks, after which the cjdns and prototype-cjdns-pi2 folders may be deleted.