

# Raspberry Pi 3 Installation

1. Purchase Raspberry Pi 3 Kit from Amazon ( \$49.99 )
2. Purchase SanDisk Ultra 32 GB microSDHC from Amazon ( \$11.49 )
3. Format SD Card
  - a. Install SDFormatter
  - b. Format SD Card
4. Install NOOBS on SD Card
5. Install SD Card in Pi board
6. Start Pi board
  - a. Select English (US)
  - b. Install raspbian from NOOBS
7. Start raspbian
  - a. Setup Country & Time
  - b. Setup WiFi
8. Update Software
  - a. sudo aptitude update
  - b. sudo aptitude full-upgrade
  - c. reboot
9. Install Webmin
  - a. wget [http://prdownloads.sourceforge.net/webadmin/webmin\\_1.810\\_all.deb](http://prdownloads.sourceforge.net/webadmin/webmin_1.810_all.deb)
    - i. or from USB Drive
  - b. sudo dpkg --install /home/pi/Downloads/webmin\_1.810\_all.deb
  - c. reboot
10. Start Webmin – <https://localhost:10000>
11. Install sysstats in webmin
  - a. sudo apt-get install librrdtool-oo-perl
  - b. Install libdbi1 from Internet or USB Drive
  - c. Install librrd4 from Internet or USB Drive
  - d. Install rrdtool from Internet or USB Drive
  - e. Install sysstats from internet or USB Drive
12. Update all software
  - a. sudo aptitude update
  - b. sudo aptitude full-upgrade
  - c. reboot
13. Install Chromium-browser
  - a. sudo apt-get update
  - b. wget -qO - http://bintray.com/user/downloadSubjectPublicKey?username=bintray | sudo apt-key add -
  - c. echo "deb http://dl.bintray.com/kusti8/chromium-rpi jessie main" | sudo tee -a /etc/apt/sources.list
  - d. sudo apt-get update
  - e. sudo apt-get install chromium-browser -y

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14. Install CUPS ( printer )
  - a. `sudo apt-get update`
  - b. `sudo apt-get install cups`
  - c. `sudo usermod -a -G lpadmin pi`
  - d. In browser go to `http://localhost:631`
    - i. Under administration tab select Add Printer, put in user pi and password
    - ii. select printer
    - iii. pick driver of closest model
    - iv. accept default options
    - v. print test page
15. Install apache2
  - a. `sudo apt-get install apache2`
16. Update all software
  - a. `sudo aptitude update`
  - b. `sudo aptitude full-upgrade`
  - c. reboot
17. Create Firewall Filtering rules
  - a. Using Webmin
    - i. Networking
      1. Linux Firewall