Notes by Caio Moreno Date: Oct, 18, 2016

Buy Raspberry Pi 3 Model B.

http://tiendas.mediamarkt.es/p/placa-base-pc-raspberry-pi-3-modelo-b-1319843

Price: 44.95 euros

I will recommend to buy the Pack Mini PC - Raspberry Pi 3 Modelo B + MicroSD 8GB + Caja rojo y blanco + Fuente de alimentación for 83.50 euros.

http://tiendas.mediamarkt.es/p/pack-mini-pc-raspberry-pi-3-modelo-b-microsd-caja-fuente-alimentacion-1329484

I had to spend some time figuring out the correct SD Card to use and power supply.

In this page https://www.rs-online.com/designspark/what-you-need-to-get-your-raspberry-pi-up-and-running is required for Pi 3 Model B to use a 5.1V - 2.5A (2500m/A) Power Supply for best results.

So I decided to use my power supply from my old Motorola Android from 2009.

In the link below I found more information about Power Supply: https://www.raspberrypi.org/documentation/hardware/raspberrypi/power/README.md

In future I will buy the power supply below for 6.29 pounds or 12.99 euros. http://uk.rs-online.com/web/p/products/9098126/
https://tiendas.mediamarkt.es/p/raspberry-pi-9098135-psu-micusb-5v-2-5-1323187?gclid=CKHo473X3c8CFUS3GwodJWUMUg
https://www.raspberrypi.org/products/universal-power-supply/

I also want to buy a case for 5.50 pounds. http://uk.rs-online.com/web/p/products/9098132/

Setup Raspberry Pi 3 Model B.

First thing go to page <u>www.designspark.com/raspberrypi</u> and read it to understand about every component in your new mini computer.

INSTALLING OPERATING SYSTEM IMAGES ON MAC OS

Download RASPBIAN JESSIE LITE (2016-09-23-raspbian-jessie-lite.zip)

RASPBIAN JESSIE LITE Minimal image based on Debian Jessie Version:September 2016 Release date:2016-09-23 Kernel version:4.4



https://www.raspberrypi.org/downloads/raspbian/ https://downloads.raspberrypi.org/raspbian_lite_latest https://www.raspberrypi.org/documentation/installation/installing-images/

After downloading the .zip file, unzip it to get the image file (.img) for writing to your SD card.

Image file name installed: 2016-09-23-raspbian-jessie-lite.img

To install I followed the commands below available in the link below: https://www.raspberrypi.org/documentation/installation/installing-images/mac.md

Commands on Mac OS

\$ diskutil list

\$ diskutil unmountDisk /dev/disk4

\$ sudo dd bs=1m if=/Users/caiomsouza/Desktop/2016-09-23-raspbian-jessie-lite.img of=/dev/rdisk4

\$ sudo diskutil eject /dev/rdisk4

Real output:

Caios-MacBook-Pro:data-integration caiomsouza\$ diskutil list /dev/disk0 (internal, physical):

#: TYPE NAME SIZE IDENTIFIER
0: GUID_partition_scheme *251.0 GB disk0
1: EFI EFI 209.7 MB disk0s1

2: Apple_CoreStorage Macintosh HD 250.1 GB disk0s23: Apple_Boot Recovery HD 650.0 MB disk0s3

/dev/disk1 (internal, virtual):

#: TYPE NAME SIZE IDENTIFIER

0: Macintosh HD +249.8 GB disk1

Logical Volume on disk0s2

726CE9D2-066A-465D-B7D0-AD5F83EF1764

Unencrypted

/dev/disk2 (disk image):

#: TYPE NAME SIZE IDENTIFIER

0: Apple_partition_scheme +19.7 MB disk2

1: Apple_partition_map 32.3 KB disk2s1

2: Apple_HFS Flash Player 19.7 MB disk2s2

/dev/disk4 (internal, physical):

#: TYPE NAME SIZE IDENTIFIER
0: FDisk_partition_scheme *7.9 GB disk4
1: Windows_FAT_32 boot 66.1 MB disk4s1
2: Linux 1.3 GB disk4s2

Caios-MacBook-Pro:data-integration caiomsouza\$ diskutil unmountDisk /dev/disk4 Unmount of all volumes on disk4 was successful

Caios-MacBook-Pro:data-integration caiomsouza\$ sudo dd bs=1m if=/Users/caiomsouza/Desktop/2016-09-23-raspbian-jessie-lite.img of=/dev/rdisk4

1325+0 records in

1325+0 records out

1389363200 bytes transferred in 178.964704 secs (7763336 bytes/sec)

Caios-MacBook-Pro:data-integration caiomsouza\$

Caios-MacBook-Pro:data-integration caiomsouza\$ sudo diskutil eject /dev/rdisk4 Disk /dev/rdisk4 ejected Caios-MacBook-Pro:data-integration caiomsouza\$

Access RASPBERRY Pi 3 by SSH

I found that the default user is **pi** and password is **raspberry**

To connect use the command:

ssh pi@<IP> ssh pi@192.168.0.32

Caios-MacBook-Pro:data-integration caiomsouza\$ ssh pi@192.168.0.32 pi@192.168.0.32's password:

The programs included with the Debian GNU/Linux system are free software;

the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law. Last login: Sat Oct 15 21:34:06 2016 from 192.168.0.15 pi@raspberrypi:~ \$

Reference:

https://www.raspberrypi.org/documentation/remote-access/ssh/unix.md https://www.raspberrypi.org/documentation/remote-access/ssh/windows.md

Admin commands

To restart

sudo reboot

To shutdown

sudo sudo shutdown -h now