



PiSignage Advanced Guide

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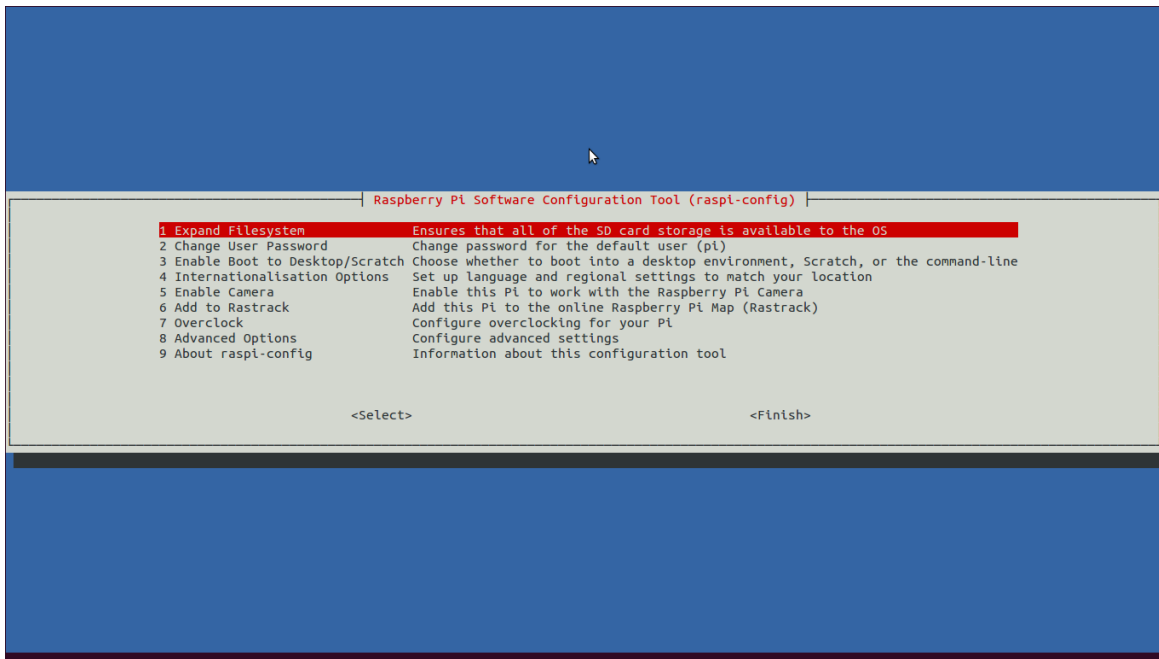
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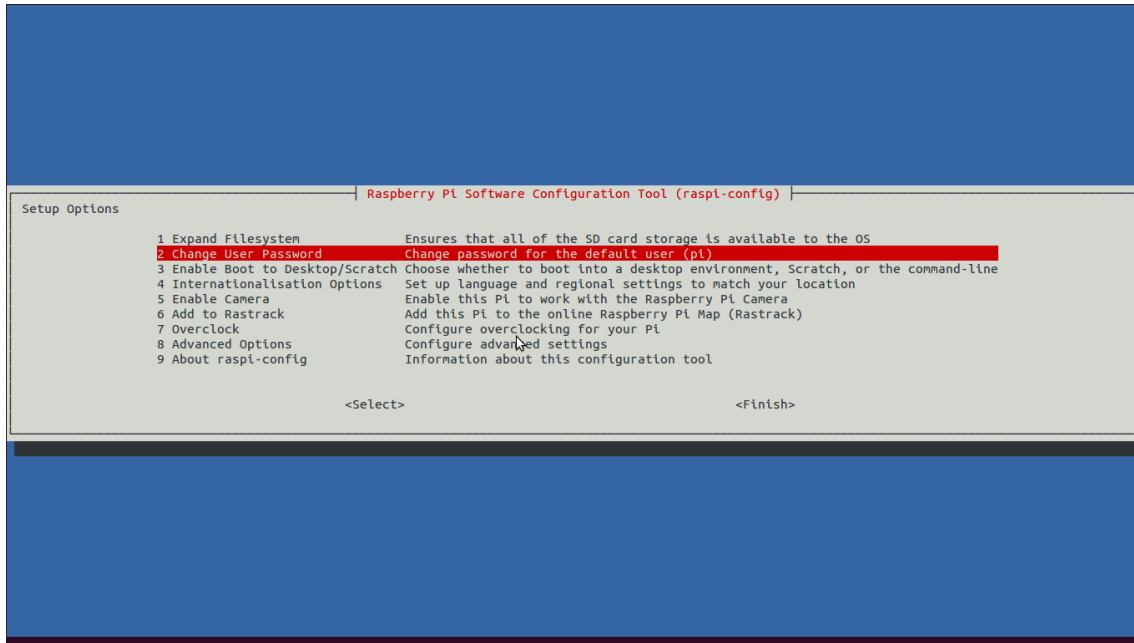
Raspbian Setup

- 1) Download latest Raspbian Debian Wheezy image(<http://www.raspberrypi.org/downloads/>)
- 2) Burn downloaded image to SD card
<http://www.raspberrypi.org/documentation/installation/installing-images/README.md>
- 3) Follow below steps

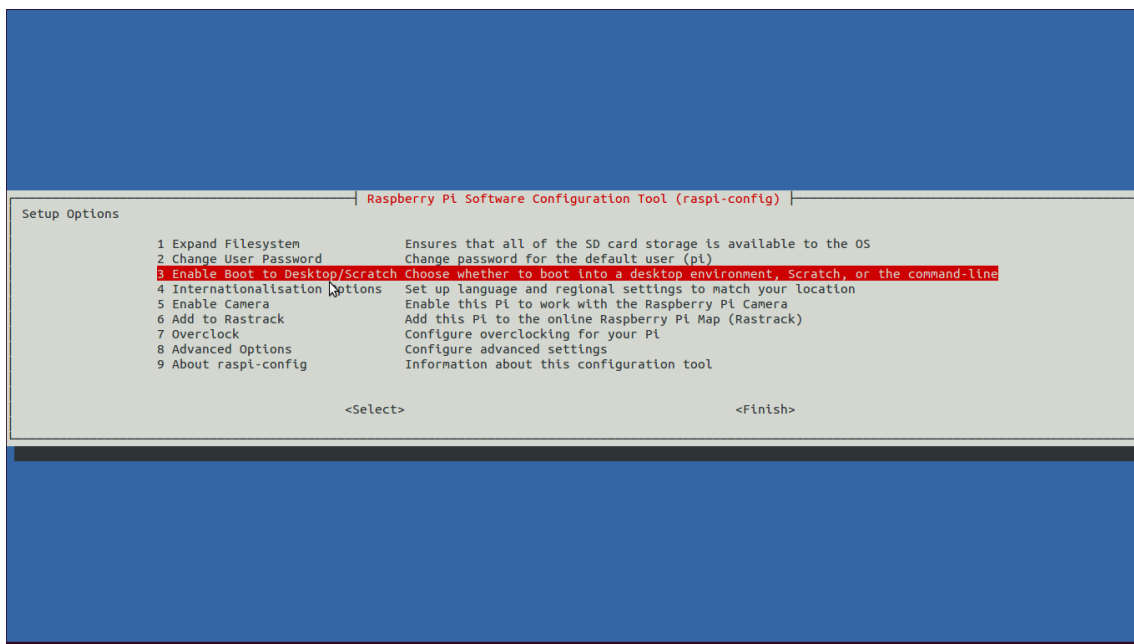
Select **Expand Filesystem** and expand the filesystem to occupy entire SD card.

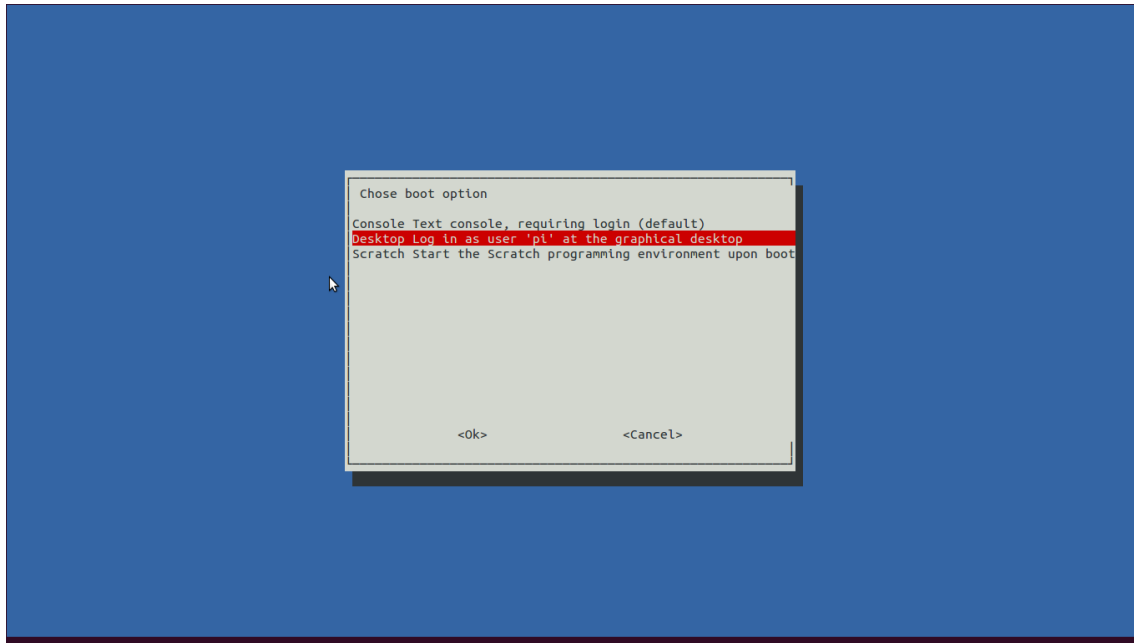


Select **Change user password** and enter your new password as 'pi'

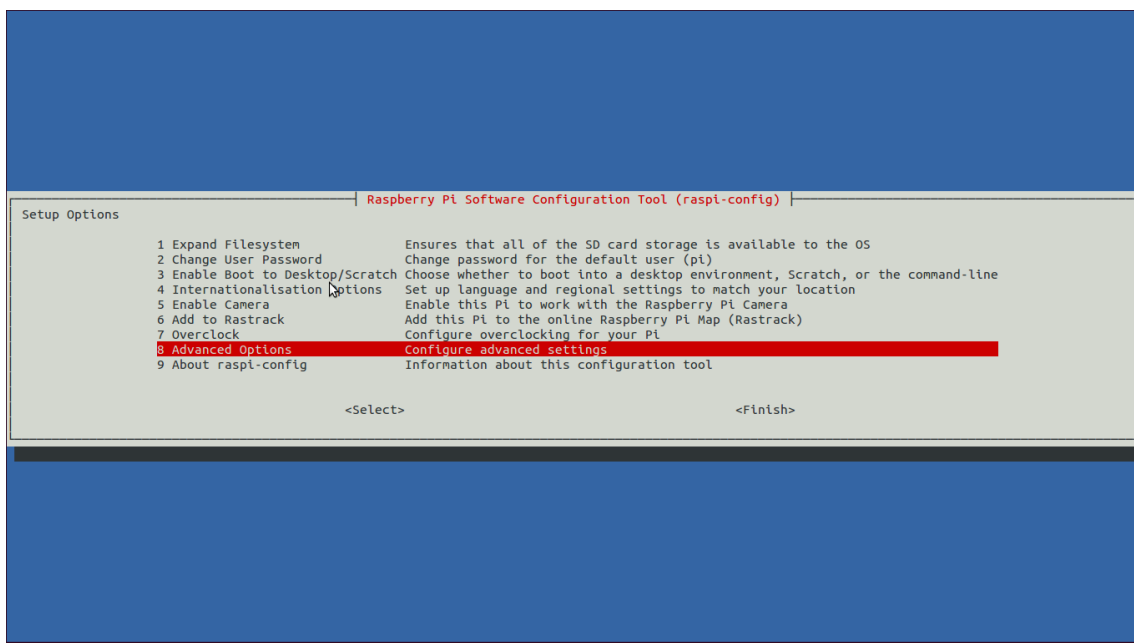


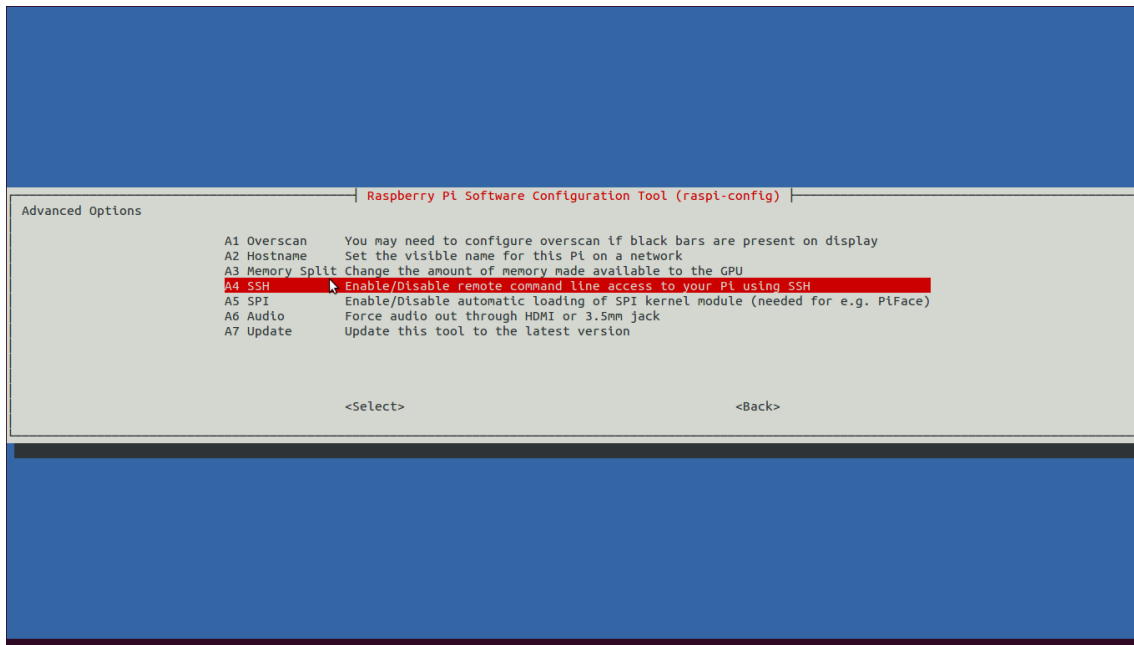
Select **Enable boot to Desktop/Scratch** option and select **Desktop log in as 'pi'** at the graphical desktop



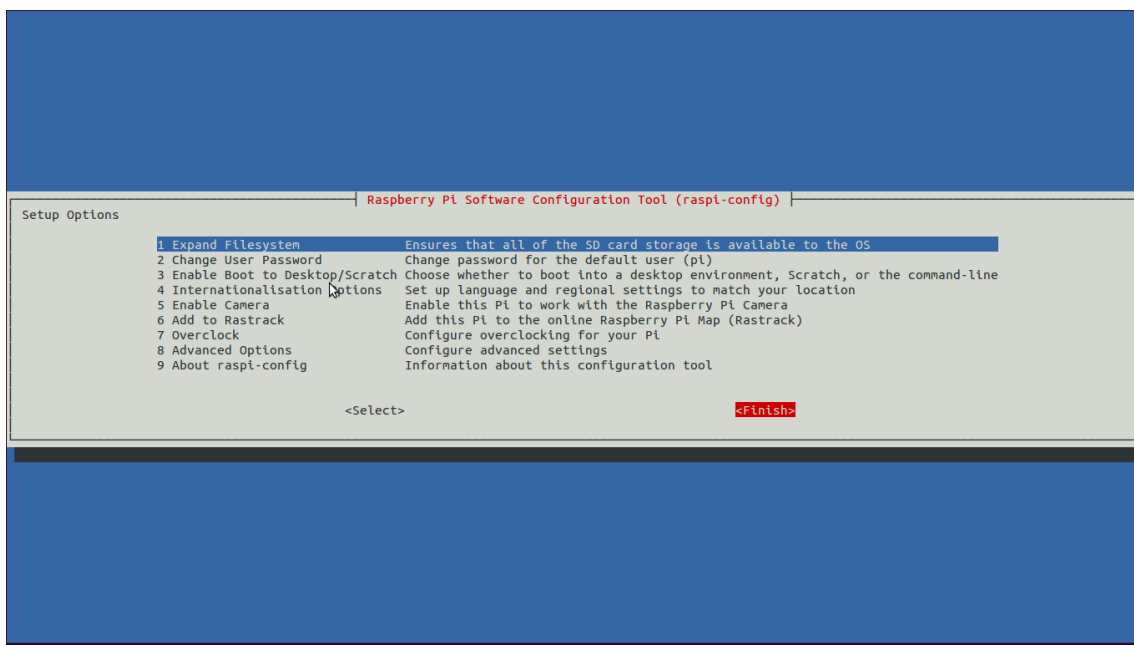


Select **advanced option** and select SSH to enable ssh service





Select **finish** and reboot



Installing PiSignage

Once pi boots to desktop, open terminal and enter following commands

- 1) `wget http://pesignage.com/releases/pi-image.zip`

```
pi@raspberrypi ~ $ wget http://pesignage.com/releases/pi-image.zip
--2015-04-06 04:25:20-- http://pesignage.com/releases/pi-image.zip
Resolving pesignage.com (pesignage.com)... 128.199.173.144
Connecting to pesignage.com (pesignage.com)|128.199.173.144|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 7146183 (6.8M) [application/zip]
Saving to: 'pi-image.zip'

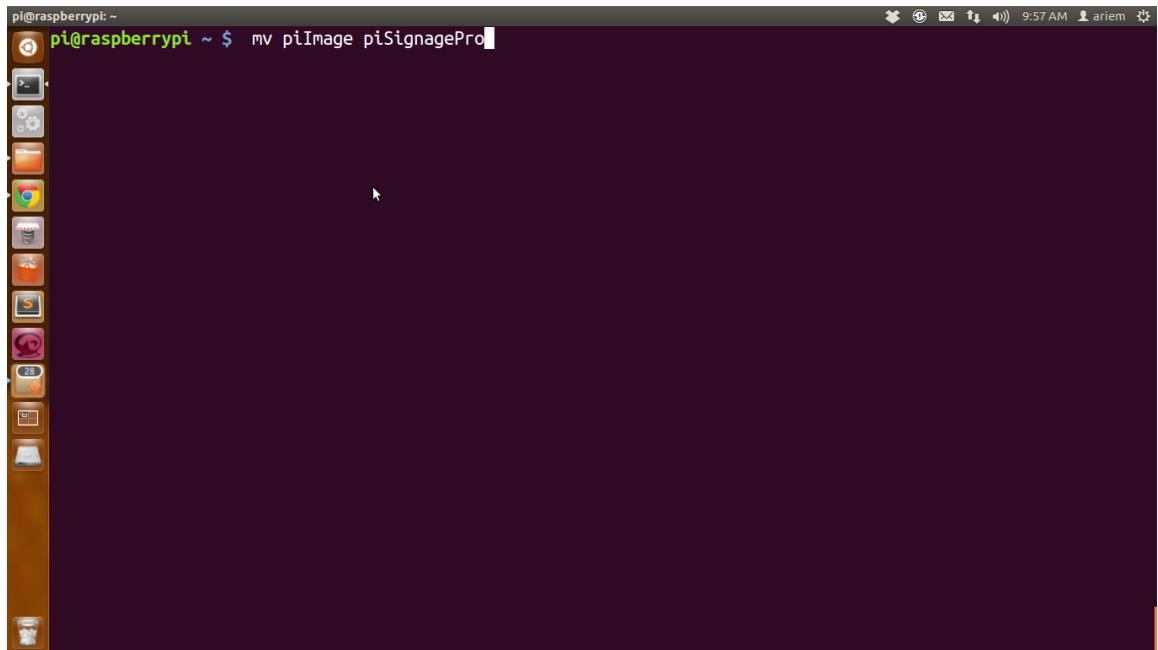
100%[=====] 7,146,183 454K/s

2015-04-06 04:25:35 (491 KB/s) - 'pi-image.zip' saved [7146183/7146183]
```

- 2) `unzip pi-image.zip`

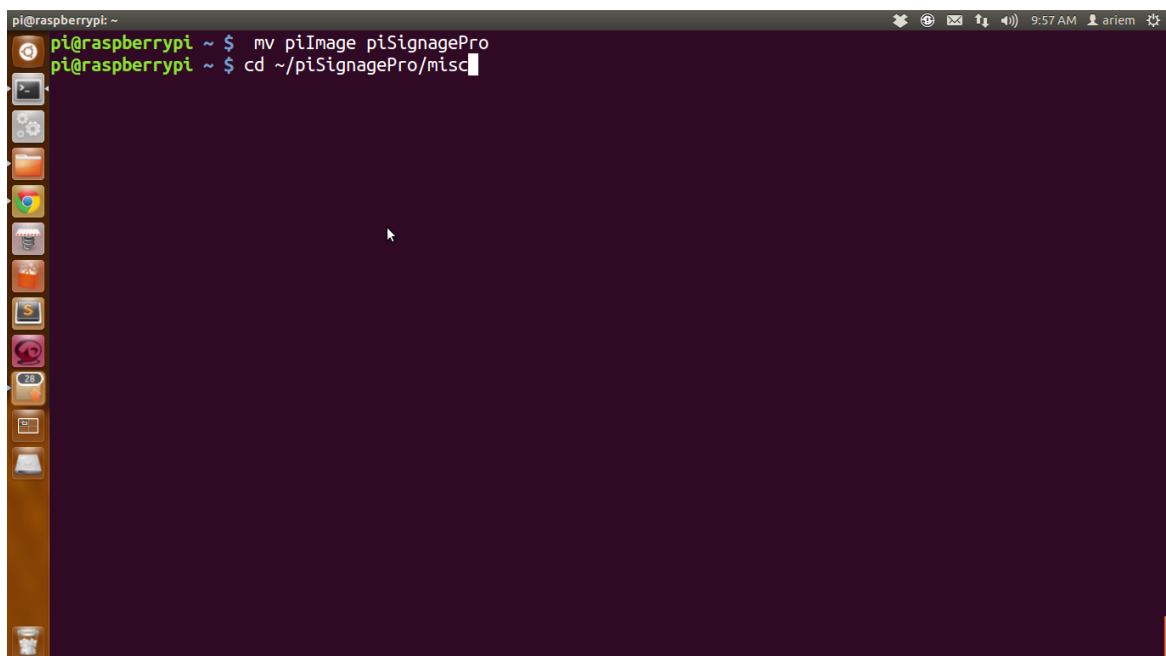
```
pi@raspberrypi ~ $
pi@raspberrypi ~ $ unzip pi-image.zip
Archive: pi-image.zip
  creating: piImage/
  creating: piImage/app/
  creating: piImage/app/views/
  inflating: piImage/app/views/404.html
  inflating: piImage/app/views/500.html
  creating: piImage/app/views/assets/
  inflating: piImage/app/views/assets/pi-background.png
  creating: piImage/app/views/css/
  inflating: piImage/app/views/css/custom-bootstrap.min.css
  inflating: piImage/app/views/emptynotice.ejs
  inflating: piImage/app/views/index-pi.html
  creating: piImage/cec/
  inflating: piImage/cec/cec-client
  inflating: piImage/cec/libcec.a
  inflating: piImage/cec/libcec.la
  inflating: piImage/cec/libcec.so.2.1
  creating: piImage/config/
  inflating: piImage/config/config.js
  inflating: piImage/htpasswd
  creating: piImage/misc/
  inflating: piImage/misc/splashscreen
  inflating: piImage/misc/autostart
  inflating: piImage/misc/bash_profile
  inflating: piImage/misc/broadcast-dhcp-discover.nse
  inflating: piImage/misc/change-hostname.sh
  inflating: piImage/misc/cmdline.txt
  inflating: piImage/misc/display.sh
  inflating: piImage/misc/downgrade.sh
  inflating: piImage/misc/gtkrc-2.0
  inflating: piImage/misc/install.sh
  inflating: piImage/misc/install_part1.sh
  inflating: piImage/misc/install_part2.sh
  inflating: piImage/misc/interfaces
  inflating: piImage/misc/lxde-rc.xml
  inflating: piImage/misc/network-config
  inflating: piImage/misc/newwelcome
  inflating: piImage/misc/mediag.sh
  inflating: piImage/misc/omx.py
  inflating: piImage/misc/onetime.sh
  inflating: piImage/misc/optimize.sh
  inflating: piImage/misc/piImage-rel-instructions.txt
  inflating: piImage/misc/pifstab
  inflating: piImage/misc/rc.local
  inflating: piImage/misc/rpi-wiggle
  inflating: piImage/misc/start.sh
  inflating: piImage/misc/upgrade.sh
  creating: piImage/misc/upgrade_scripts/
  inflating: piImage/misc/upgrade_scripts/100.sh
```

3) mv piImage piSignagePro



A terminal window on a Raspberry Pi desktop. The terminal title is 'pi@raspberrypi: ~'. The prompt is 'pi@raspberrypi ~ \$'. The command 'mv piImage piSignagePro' has been entered and is currently being typed, with the cursor at the end of the command. The desktop background is dark purple, and a vertical dock with various application icons is visible on the left side.

4) cd ~/piSignagePro/misc



A terminal window on a Raspberry Pi desktop. The terminal title is 'pi@raspberrypi: ~'. The prompt is 'pi@raspberrypi ~ \$'. The command 'mv piImage piSignagePro' has been executed. The prompt is now 'pi@raspberrypi ~ \$'. The command 'cd ~/piSignagePro/misc' has been entered and is currently being typed, with the cursor at the end of the command. The desktop background is dark purple, and a vertical dock with various application icons is visible on the left side.

5) `. install.sh 2>&1 | tee /home/pi/install.log`

```
pi@raspberrypi:~$ . install.sh
```

Press 'n' when system display below message and reboot

```
35350K ..... 96% 439K 3s
35400K ..... 97% 481K 3s
35450K ..... 97% 484K 2s
35500K ..... 97% 488K 2s
35550K ..... 97% 466K 2s
35600K ..... 97% 479K 2s
35650K ..... 97% 540K 2s
35700K ..... 97% 537K 2s
35750K ..... 98% 441K 2s
35800K ..... 98% 533K 2s
35850K ..... 98% 489K 1s
35900K ..... 98% 558K 1s
35950K ..... 98% 495K 1s
36000K ..... 98% 544K 1s
36050K ..... 98% 499K 1s
36100K ..... 98% 597K 1s
36150K ..... 99% 510K 1s
36200K ..... 99% 539K 1s
36250K ..... 99% 568K 1s
36300K ..... 99% 503K 0s
36350K ..... 99% 486K 0s
36400K ..... 99% 558K 0s
36450K ..... 99% 550K 0s
36500K ..... 100% 423K=88s
```

```
2015-04-06 05:36:58 (417 KB/s) - 'brand_pisignage.mp4' saved [37395512/37395512]
```

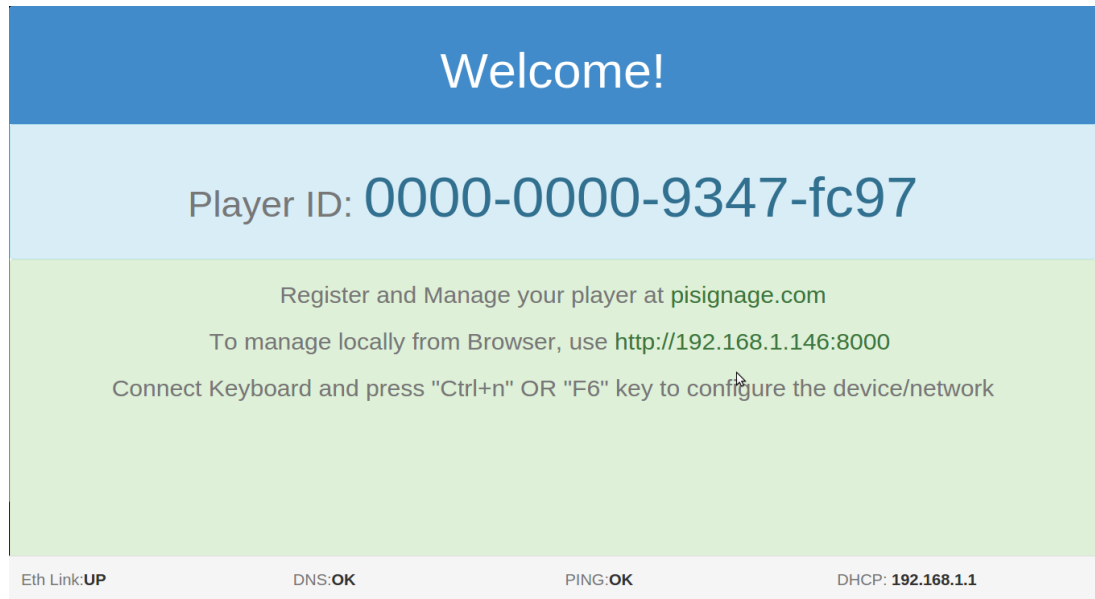
```
Shutdown and create clone image (y/n)?pi@raspberrypi:~$
```

```
pi@raspberrypi:~$
```

SSH to raspberry pi

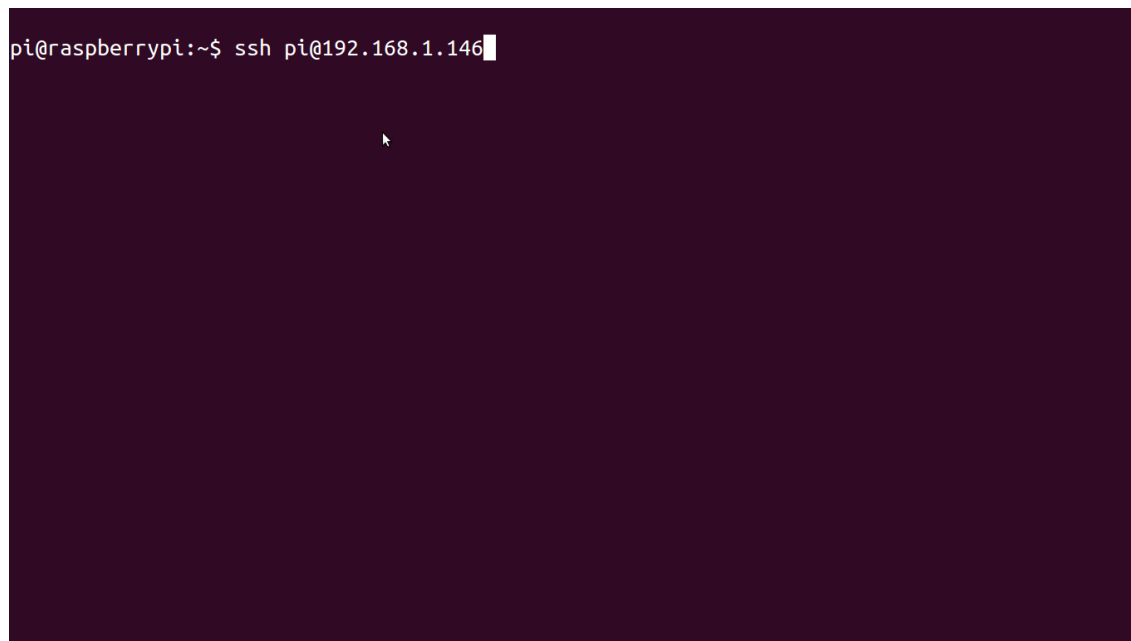
Linux user

Note down your player IP address from welcome screen (**192.168.1.146**)



Open Terminal (**Ctrl+t**) in your PC and enter following command **ssh pi@<your IP address>**

(Example: ssh pi@192.168.1.146)



Enter Password as **pi**

Windows user

Download putty for windows <http://the.earth.li/~sgtatham/putty/latest/x86/putty.exe>

PuTTY Download Page

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Here are the PuTTY files themselves:

- PuTTY (the Telnet and SSH client itself)
- PSCP (an SCP client, i.e. command-line secure file copy)
- PSFTP (an SFTP client, i.e. general file transfer sessions much like FTP)
- PuTTYtel (a Telnet-only client)
- Plink (a command-line interface to the PuTTY back ends)
- Pageant (an SSH authentication agent for PuTTY, PSCP, PSFTP, and Plink)
- PuTTYgen (an RSA and DSA key generation utility).

LEGAL WARNING: Use of PuTTY, PSCP, PSFTP and Plink is illegal in countries where encryption is outlawed. I believe it is legal to use PuTTY, PSCP, PSFTP and Plink in England and Wales and in many other countries, but I am not a lawyer and so if in doubt you should seek legal advice before downloading it. You may find [this site](#) useful (it's a survey of cryptography laws in many countries) but I can't vouch for its correctness.

Use of the Telnet-only binary (PuTTYtel) is unrestricted by any cryptography laws.

There are cryptographic signatures available for all the files we offer below. We also supply cryptographically signed lists of checksums. To download our public keys and find out more about our signature policy, visit the [Keys page](#). If you need a Windows program to compute MD5 checksums, you could try the one at [this site](#). (This MD5 program is also cryptographically signed by its author.)

Binaries

The latest release version (beta 0.64). This will generally be a version I think is reasonably likely to work well. If you have a problem with the release version, it might be worth trying out the latest development snapshot (below) to see if I've already fixed the bug, before reporting it to me.

For Windows on Intel x86

PuTTY:	putty.exe	(or by FTP)	(RSA sig)	(DSA sig)
PuTTYtel:	puttytel.exe	(or by FTP)	(RSA sig)	(DSA sig)
PSCP:	pscp.exe	(or by FTP)	(RSA sig)	(DSA sig)
PSFTP:	psftp.exe	(or by FTP)	(RSA sig)	(DSA sig)
Plink:	plink.exe	(or by FTP)	(RSA sig)	(DSA sig)
Pageant:	pageant.exe	(or by FTP)	(RSA sig)	(DSA sig)
PuTTYgen:	puttygen.exe	(or by FTP)	(RSA sig)	(DSA sig)

A ZIP file containing all the binaries (except PuTTYtel), and also the help files

Zip file:	putty.zip	(or by FTP)	(RSA sig)	(DSA sig)
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A Windows installer for everything except PuTTYtel

Installer:	putty-0.64-installer.exe	(or by FTP)	(RSA sig)	(DSA sig)
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Checksums for all the above files

MD5:	md5sums	(or by FTP)	(RSA sig)	(DSA sig)
SHA-1:	sha1sums	(or by FTP)	(RSA sig)	(DSA sig)
SHA-256:	sha256sums	(or by FTP)	(RSA sig)	(DSA sig)
SHA-512:	sha512sums	(or by FTP)	(RSA sig)	(DSA sig)

The latest development snapshot. This will be built every day, automatically, from the current development code - in whatever state it's currently in. If you need a fix for a particularly crippling bug, you may find [this site](#) useful. On the other hand, these snapshots might sometimes be unstable.

Open putty application and enter IP address and press OK

The screenshot shows a Raspberry Pi desktop with a terminal window open. The terminal displays the login prompt for a Raspberry Pi. A PuTTY Configuration dialog box is overlaid on the terminal, showing the 'Session' category selected. The 'Host Name (or IP address)' field is set to '192.168.1.146' and the 'Port' is '22'. The 'Connection type' is set to 'SSH'. The 'Close window on exit' option is set to 'Only on clean exit'. The 'Open' button is highlighted.

You'll now have the usual login prompt, login with the same username and password as you would use on the Pi itself. The default login for Raspbian is `pi` with the password `raspberrypi`.

You should now have the Raspberry Pi prompt which will be identical to the one found on the Raspberry Pi itself.

`pi@raspberrypi ~ $`

The next time you use PuTTY look for the `Saved Sessions` section on the bottom half of the configuration screen. If you use this I recommend switching to the `connection` page in the left hand tree and setting the `Seconds between keepalives` value to `30`. Then switch back to the `Session` page in the tree before you click `Save`. Using this setting allows you to leave a PuTTY window open for long periods of time with no activity and the Pi will not time out and disconnect.

Enter

Login name as **pi**

Password as **pi**

