



# Raspberry Pi Cheat Sheet

## Setup

Find all available devices ``arp -a``

Locate Raspberry (b8:27:eb) in Network: [Pi Finder]

## SSH

- Connect to device via SSH + Name: ``ssh pi@rasperrypi``
- Connect to device via SSH + IP: ``ssh pi@192.168.64.xxx``

## Users

Add new user with home dir: ``sudo useradd -m sven -G sudo`` (see ``/etc/passwd``)

Set password for user: ``sudo passwd sven`` (see ``/etc/shadow``)

## System

Get system info (e.g. IP): `ifconfig`

Get network info: `iwconfig`

Get hostname: `hostname`

Get hostname IP: `hostname -I`

Check for all connected USB devices: `lsusb`

Switch to config: `sudo raspi-config`

Switch to GUI: `startx`

Reboot system: `reboot / sudo reboot`

Shutdown: `sudo shutdown -h now`

Start SSH while booting: `sudo update-rc.d ssh defaults`

## Web Server

Update system: `sudo apt-get update & sudo apt-get upgrade`

Install Web Server: `sudo apt-get install apache2 php5`

Laravel will also need `mcrypt` and `GD` extension.

Install MySQL: `sudo apt-get install mysql-server mysql-client php5-mysql`

Restart: `sudo service apache2 restart`

Install Avahi for `.local`

domain: `sudo apt-get install avahi-daemon`

Note: Also update `vhosts` to `AllowOverride All` !

## Audio

Play: ``omxplayer audio.mp3``

Volume: ``+`` & ``-``

## GUI Keyboard Shortcuts

System menu: ``ctrl + esc``

Open programm menu: ``alt + space``

Switch programmes: ``alt + tab``

Access dropdown: ``alt + [letter-with-underline]`` e.g. ``alt + f``

Close window: ``ctrl + q``

Back to CLI: ``ctrl + alt + backspace``

## Remote Control

Install XRDP: ``apt-get install xrdp``

Connect via Remote Desktop app

- Install VNC: ``sudo apt-get install tightvncserver``

- Start VNC: ``tightvncserver``

- Ethernet Port: ``5900``

- WLAN Port: ``5901``

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## File Sharing

Install file sharing: `sudo apt-get install netatalk`

Connect to Server (via K): `afp://192.168.64.xxx`

## Wifi

Setup:

- [Via interface]( wifi button )
- [Via CMD](pi config)

- Check the power management flag using: `cat /sys/module/8192cu/parameters/rtw_power_mngt` (this will report a value of 1)
- To set it to zero you can use: `sudo touch /etc/modprobe.d/8192cu.conf`
- Add this line to the created file: `options 8192cu rtw_power_mngt=0 rtw_enusbss=0`
- Reboot: `sudo reboot`

-Midnight Commander:

Install: `sudo apt-get install mc`

Start: `sudo mc`

