

How to install RocRail on a RasPi

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This is a short instruction how to install Rocrail on a RasPi, based on the 2013 made M.

Serrano instruction http://tren.enmicasa.net/wp-content/uploads/Setting-up-rocpi_v1.4.pdf.

See https://launchpadlibrarian.net/151811122/Setting%20up%20rocpi_v1.8.pdf too and of my german instruction <http://wiki.rocrail.net/doku.php?id=userpages:pirat-kapitan:rocrail-auf-raspi>.

It is tested on RasPi B, B+ and RasPi P2.

Details how to install a RasPi itself and Details (not always up to date) see the above instruction.

Features of this instructions:

- Rocrail as server
- Rocrail running as a daemon
- autostart Rocrail while starting RasPi as Option

NO Features of this instructions:

- Installation of Rocview
- network or WLAN

Top 1: Install a running Raspbian OS as instructed on <http://raspberrypi.org> and run the RasPi-Config. (P2 requires Version of Feb. 12th, 2015 or newer), check if SSH is enabled !

Get the latest OS updates with

```
sudo apt-get update
```

and

```
sudo apt-get upgrade .
```

Top 2: Install the needed libraries:

```
sudo apt-get install libusb-1.0-0-de
```

```
sudo apt-get install wxgtk2.8-dev
```

Top 3: install Rocrail from pre-build package:

download the pre-build package (see the available revision on

<http://rocrail.net/software/rocrail-snapshot/>):

```
wget http://rocrail.net/software/rocrail-snapshot/raspi/rocrail-xxxx-wheezy-armhf.deb
```

install

```
sudo dpkg -i rocrail-xxxx-wheezy-armhf.deb
```

Note: the "xxxx" should be replaced with the wanted revision.

Rocrail is now installed in the path `/opt/rocrail` .

Top 4: Update Rocrail:

You have to do TOP 3 again.

Top 5: Autostart Rocrail:

I prefer a new user "taster", who starts the rocrail-daemon automatically when starting the Raspi.

add a new user "taster"

```
sudo adduser taster
```

to set the password is a need, all other questions may be skiped, confirm at the end.

make taster as a root

edit `/etc/sudoers` and add at botton a new line

```
taster ALL=(ALL) NOPASSWD: ALL
```

Edit `etc/inittab` (shown only the part of change)

Note that on most Debian systems `tty7` is used by the X Window System,
so if you want to add more `getty`'s go ahead but skip `tty7` if you run X.

#

1:2345:respawn:/sbin/getty --noclear 38400 tty1

1:2345:respawn:/bin/login -f pi tty1 </dev/tty1 >/dev/tty1 2>&1

2:23:respawn:/sbin/getty 38400 tty2

3:23:respawn:/sbin/getty 38400 tty3

4:23:respawn:/sbin/getty 38400 tty4

5:2345:respawn:/bin/login -f taster tty5 </dev/tty5 >/dev/tty5 2>&1

5:23:respawn:/sbin/getty 38400 tty5

6:23:respawn:/sbin/getty 38400 tty6

the black lines are the original.

edit `/home/taster/.bashrc`

add at bottom a new line:

`sudo /etc/init.d/./rocraild start`

Restart the RasPi.

IMPORTANT: first start Your command station, second the RasPi with Rocrail !