

How to install RocRail on a RasPi

edition: 2015-02

This is a short translation of my German instruction “RasPi_fuer_Rocrail” (how to install a RasPi and Rocrail on a RasPi).

My instruction starts from the 2013 made M. Serrano instruction

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

It is tested on RasPi B and B+, not on RasPi 2. Rocrail-forum says, it runs on RasPi 2 too. The unshorted instruction is written in German only (sorry, I am no native English).

Top 1: Install a running Raspbian OS as instructed on <http://raspberrypi.org> and run the RasPi-Config. (German TOP 1-4):

Get the latest OS updates with

```
sudo apt-get update
```

and

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

Top 2: Install the needed libraries (German TOP 9):

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

if You do not run Rocview on the RasPi, You can skip

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

Top 3: install Rocrail (German TOP 8, 10):

make the directories:

```
cd /home/pi
```

```
mkdir rocrail
```

```
cd rocrail
```

```
mkdir source
```

download the source code

```
cd /home/pi/rocrail/source
```

```
git clone https://github.com/rocrail/Rocrail.git Rocrail
```

```
make
```

```
cd /home/pi/rocrail/source/Rocrail
```

```
make fromtar
```

this needs about 1,5 hours on a RasPi, much faster on a RasPi 2.

install

```
cd /home/pi/rocrail/source/Rocrail
```

```
sudo make install
```

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

Top 4: Rocrail as daemon: please refer to the instructions of M. Serrano (German TOP 12,13):

I prefer a new user “taster”, who starts the rocrail-daemon starting rocrail.

Top 5: setting network and Accesspoint-mode is skipped in English (sorry, but this part is not Rocrail-special).

Top 6: Update Rocrail

download the update

```
cd /home/pi/rocrail/source/Rocrail
```

```
git pull
```

```
make (server only)
```

```
cd /home/pi/rocrail/source/Rocrail
```

```
make server
```

maybe ca. 30 minutes (RasPi)

install

```
cd /home/pi/rocrail/source/Rocrail
```

```
sudo make install  
finished.
```

If You get in trouble with the update (no new revision number), try LDG`s
`git reset --hard` (2 signs - !)
`git pull`

The German instruction includes some “nice to have”:
Teil 7 (part 7) the “how to” for selected Command stations
Teil 8 (part 8) hardware modifications of the RasPi

and, of course
some source code (in Teil / part 9)