How to build and flash CyanogenMod 11 for Geeksphone Revolution.

Note: In this how to we understand that the user has basic knowledge of Linux.

Pre-requisites:

Follow this guide https://source.android.com/source/initializing.html to prepare the enviroment for compile.

Download sources:

- Create a dir where you want to put Geeksphone Revolution CM11 sources

- Inside this new dir, you must sync the repositories from our github project as described below

```
repo sync http://github.com/gpdroid/revo_android.git -b cm-11.0
```

Building:

- Go to the folder where files were downloaded. All the commands in this how to should be executed inside this folder.

- Use a USB cable to connect your Geeksphone Revolution **with a CM11 image installed** (you can install it through System Updates) and check that it is detected by your computer with

```
adb devices
```

- To extract the binary files needed for build a image we should run

```
cd device/geekshone/revolution
./extract-files.sh
```

- We need to patch some source files needed to make the hardware of the Geeksphone Revolution working on CM11

```
cd cm11_patches
./patch.sh
```

- Configure enviroment

```
. build/envsetup.sh
```

- Select your device

```
lunch cm_revolution-eng
```

The screen should display a text similar to this. If not, please repeat last 2 steps.

```
==========================================
PLATFORM_VERSION_CODENAME=REL
PLATFORM_VERSION=4.4.4
CM_VERSION=11-20140812-UNOFFICIAL-revolution
TARGET_PRODUCT=cm_revolution
TARGET_BUILD_VARIANT=eng
TARGET_BUILD_TYPE=release
TARGET_BUILD_APPS=
TARGET_ARCH=x86
TARGET_ARCH_VARIANT=x86-atom
TARGET_CPU_VARIANT=x86
HOST_ARCH=x86
HOST_OS=linux
HOST_OS_EXTRA=Linux-3.13.0-32-generic-x86_64-with-Ubuntu-14.04-trusty
HOST_BUILD_TYPE=release
BUILD_ID=KTU84Q
OUT_DIR=/out
==========================================
```

- Launch the build.

```
make -jX
```

X is a value equal to the cores of your machine processor + 2

- Once the building is done, if there aren't errors, in the folder that is the value of the variable OUT_DIR from the info screen (text above) you will find the files needed for the next step.

Flashing CM11

- Go to the folder that is the value of the OUT_DIR variable
- Connect the device and check the connection with

```
adb devices
```

- Launch

```
./flash.sh
```

The device will reboot to bootloader and install the image. Make sure the usb cable don't disconnects while this is happening, because you can brick your device.Once done the device will reboot to normal status.

NOTES:

- Boot.img is built, but is not used when flashing the device. In this device the boot.img file is signed and we are not allowed to provide this keys. So, if you need to make any change to this file, contact us in the forums and we will sign it for you.
- If you have any improvement or fix that you think that should be included in this image, please contact us in the forums or create a pull request in out github.