Guide for compiling Trezarcoin on a Raspberry pi for pos staking.

By Iwens Fortis

Tested on Raspberry Pi 3 Model B last Raspbian jessie.

Preparing raspberry pi os on your computer.

- Download Raspbian jessie (stretch will give compile errors).

```
https://downloads.raspberrypi.org/raspbian/images/raspbian-2017-07-05/2017-07-05-raspbian-jessie.zip
```

- Download etcher for creating the needed micro sd card.

```
https://github.com/resin-io/etcher/releases/download/v1.1.2/Etcher-Setup-1.1.2-x64.exe
```

- Insert the sdcard in your card reader in your computer.
- Run etcher it will find your sd card, click on select image and choose the downloaded 2017-07-05-raspbian-jessie.zip
- Click flash then wait until completed.
- Remove the micro sd card from your computer, insert it into the sd card slot of your raspberry pi.
- Powerup the raspberry pi, the pi will boot to the desktop.

Compiling Trezarcoin on your Pi.

- Start on your pi terminal (top menu left on your display a black dos cmd icon with >_ text).
- First we need to install the dependencies, for this execute the following cmd's stated below in the terminal window. The commands to execute are in the grey textboxes. The commands will ask for a password which will be raspberry and u have to confirm some commands with y from yes.
- First update the apt library.

```
sudo apt-get update
```

- Install needed dependencies to compile Trezarcoin

```
sudo apt-get install qt4-qmake libqt4-dev build-essential libboost-dev -y
```

```
sudo apt-get install libboost-system-dev libboost-filesystem-dev libboost-program-options-dev -y
```

```
sudo apt-get install libboost-thread-dev libssl-dev libminiupnpc-dev libqrencode-dev git -y
```

We need to compile the recommended Berkeley DB our self It should take 10-20 Minutes to compile.

```
wget http://download.oracle.com/berkeley-db/db-4.8.30.NC.tar.gz
```

```
tar -xzvf db-4.8.30.NC.tar.gz
```

```
cd db-4.8.30.NC/build_unix/
```

```
../dist/configure --enable-cxx --disable-shared
```

```
make
```

```
sudo make install
```

```
cd ~
```

- To be enable for makefile to find the Berkeley db we need to add the following commands (if u reboot or start a new terminal after this commands u will have to issue these commands again before compiling).

```
export CPATH="/usr/local/BerkeleyDB.4.8/include"
```

```
export LIBRARY_PATH="/usr/local/BerkeleyDB.4.8/lib"
```

- Finally we need to compile Trezarcoin

```
git clone https://github.com/TrezarCoin/TrezarCoin
```

```
cd TrezarCoin
```

```
qmake "USE_UPNP=1"
```

- We now have to edit the make file manually as the -DASM command is included which will fail to compile on arm. For this we have to manually remove it. Execute the following command.
- Move your cursor to the line (line 13 starting with CFLAGS)

```
nano Makefile
```

- Move your cursor to the line (line 13 starting with CFLAGS)
  CFLAGS   = -pipe -DASM -DOPT -O2 -D_REENTRANT -Wall -W $(DEFINES)
  Change this line to:
  CFLAGS   = -pipe -DOPT -O2 -D_REENTRANT -Wall -W $(DEFINES)
  Press Ctrl o
  Press Enter
  Press Ctrl x
- Final cmd will be make to compile trezarcoin this will take about 20-40 mins on a pi or even maybe longer please be patient.

```
make
```

- After 20 – 40 minutes the trezarcoin-qt executable will be there in the TrezarCoin dir.