

# How to build a Qt & daemon Sat3coin Pi wallet

Brought to you by  
Jeremy Lee a.k.a “krewshul”

Outlined below you will find the step by step instructions on how to compile a Qt wallet and a daemon wallet for the Raspberry Pi. (I personally have tested on a Pi3 and a Pi zero w.)

1. Go and get yourself a Raspberry Pi. You can find them on ebay, amazon, just about everywhere.... I think i saw them at Walmart.
  - a. <https://thepihut.com/products/raspberry-pi-zero-w?src=raspberrypi>
2. Download and install Raspbian-jessie. I had issues with the one that comes on Noobs pre-installed (raspbian-stretch) and raspbian jessie-lite. You will have to reformat and flash your micro sd or sd card. I like the software Etcher.
  - a. Etcher: <https://etcher.io/>
  - b. Raspbian jessie:  
<https://downloads.raspberrypi.org/raspbian/images/raspbian-2017-07-05/2017-07-05-raspbian-jessie.zip>
  - c. If you are using a micro sd, then insert it into the adapter and plug into your sd card reader.
  - d. Turn on Etcher and it should find the card.
  - e. Press the button that says “FLASH” and it then wait.....
  - f. Once completed, remove from the adapter, insert into the Pi and turn on. It will automatically boot to desktop.
3. **TIME TO START THE COMPILING OF YOUR SAT3COIN WALLET**
  - a. Open up the terminal on your pi. It should be up in the left hand corner of the screen. It has the text “>\_” on it.
  - b. Lets update first
    - **sudo apt-get update**
  - c. Next we need a swapfile
    - **sudo dphys-swapfile swapoff**
    - **CONF\_SWAPSIZE=1024**
    - **sudo dphys-swapfile swapon**

- d. Now install the dependencies
  - **sudo apt-get install qt4-qmake libqt4-dev build-essential libboost-dev -y**
  - **sudo apt-get install libboost-system-dev libboost-file-system-dev libboost-program-options-dev -y**
  - **sudo apt-get install libboost-thread-dev libssl-dev libminiupnpc-dev libqrencode-dev git -y**
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you got like 20 minutes for that to complete. Time for a break!
- e. After it is done installing we need to build the Berkeley DB ourselves
  - **wget <http://download.oracle.com/berkeley-db/db-4.8.30.NC.tar.gz>**
  - **tar -xzf 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 ~**
- f. Now let's make it so the makefile can find the Berkeley DB
  - **export CPATH="/usr/local/BerkeleyDB.4.8/include"**
  - **export LIBRARY\_PATH="/usr/local/BerkeleyDB.4.8/lib"**
- g. LET'S COMPILE!!!
  - **git clone <https://github.com/Sat3Coin/sat3.git>**
  - **cd sat3**
  - **qmake "USE\_UPNP=1" (this makes your Makefile)**
- h. To make the daemon (if you prefer a Qt wallet then skip this and move on to "i")
  - **cd src**
  - **make -f makefile.unix**  
(go smoke another cigarette... finish off the 6 pack. This is gonna be a minute)

After that is finished you will see a new file in that directory called "sat3coind". That is your daemon. If you don't want a graphical interface and prefer command line wallets then there you go. Just type " ./sat3coind " (without the quotations) to start it while in that directory.

- i. To make a Qt (you need to be in the sat3 directory) so, from the src directory type
  - **cd ..**

- **make**
- j. Almost done, we need a folder for the Qt shortcut
  - **nano /home/pi/Desktop/sat3coin-qt.desktop**
- k. In the nano screen add
  - **[Desktop Entry]**  
**Name=sat3coin-Qt**  
**Comment=sat3coin GUI**  
**Type=Application**  
**Encoding=UTF-8**  
**Exec=env**  
**LD\_LIBRARY\_PATH="\$LD\_LIBRARY\_PATH:/usr/local/BerkeleyDB.4.8/lib:/home/pi/openssl/lib"**  
**/home/pi/trezarcoin/trezarcoin-qt**  
**Terminal=false**  
**Categories=None;**

**Now save and exit.**

- l. Need to make a conf. File
  - **nano /home/pi/.Sat3coin/sat3coin.conf**
- m. In the nano add
  - **daemon=1**  
**server=1**  
**rpcuser=(username)**  
**rpcpassword=(strong password)**

**Change the "username" and "strong password" to whatever you like.**

Now save and exit, double click the file you made on the desktop for the Qt and look at that beautiful sat3 wallet you made. You have now compiled a Sat3 qt and a daemon on the pi!!!!

If you found this useful and would like to donate

BTC

1LRsDGKP9NjkmSo57jXGqHrpxJ5jFtqg3D

LTC

LPVWYXrr76hTvigMSigT2WVESjgGw69Kyb

Doge

DMJAe9nTwRgUUfvo3vdTCoNb59a32tyy5N

