Electroneum Ubuntu CPU mining

Electroneum

About

Electroneum is a crypto that is focussing on the mobile platform. Easy to use and accessible for everyone
Official website

Main characteristic

- Secure and private
- Designed for mass adoption
- App based mobile mining
- Signed agreements with global mobile networks
- Provide a digital payment solution to the developing world.

Wallet

As Electroneum is focusing on becoming the best mobile crypto they have an online wallet with mobile apps.
Wallet page

Mining Pool

I'm using spacepools to mine electroneum
The official pool has a 0.1 % fee and has a payout of 10 ETN which is pretty low for both.
When selecting a mining pool for CPU mining I suggest to take a pool with a low payout, CPU's mine at a relatively low hashrate depending on which CPU you have.
You won't be generating a loads of coins over a short amount of time so you want to be able to get your mined coins on a higher frequency, keep in mind if you stop mining before the minimum payout has reached they won't give you your mined coins.
Also try to pick a pool closeby (continent), this will also help with mining.
You can always visit the website of your pool and insert your address to look at the progress you are making showing your statistics.

- Spacepools

Tools

XMR-stak-cpu

XMR-stak-cpu is a very easy to use and very configurable tool.
You can find the tool on their official github.
During the instructions I'll also include links to pre-configured setups.

- Official XMR github

Pre-requirement

The requirement for this guide is to have a running Ubuntu 16.04.
A guide for setting this up will follow soon.

Instructions

Risks

Before mining please make sure you are aware of the risks involved.
Risks

Written instructions

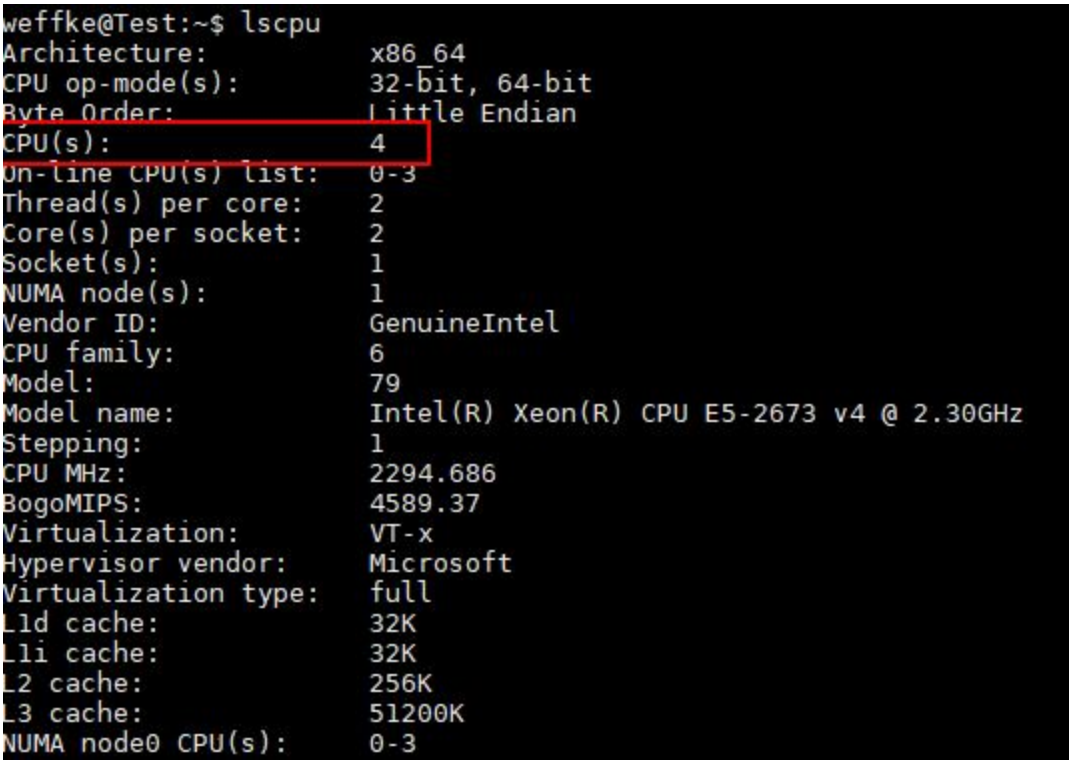
- To start off we'll do following commands to get everything ready to build the miner binary.

  Cd
  sudo apt-get --assume-yes update
  sudo apt-get --assume-yes install libmicrohttpd-dev libssl-dev cmake build-essential libhwloc-dev screen git nano
  git clone https://github.com/fireice-uk/xmr-stak-cpu.git
  cd xmr-stak-cpu
  cmake .
  make install

- Now we'll create a directory in our home folder move the binary to our home directory

  mkdir ../etnminer
  sudo cp bin/xmr-stak-cpu ../etnminer/.
  cd ../etnminer

- Next we will determine what kind of CPU you have and the amount of cores.
    - you can see this by running the " lscpu " command



Now that you know how many cores/threads you have you can choose how many you will use.

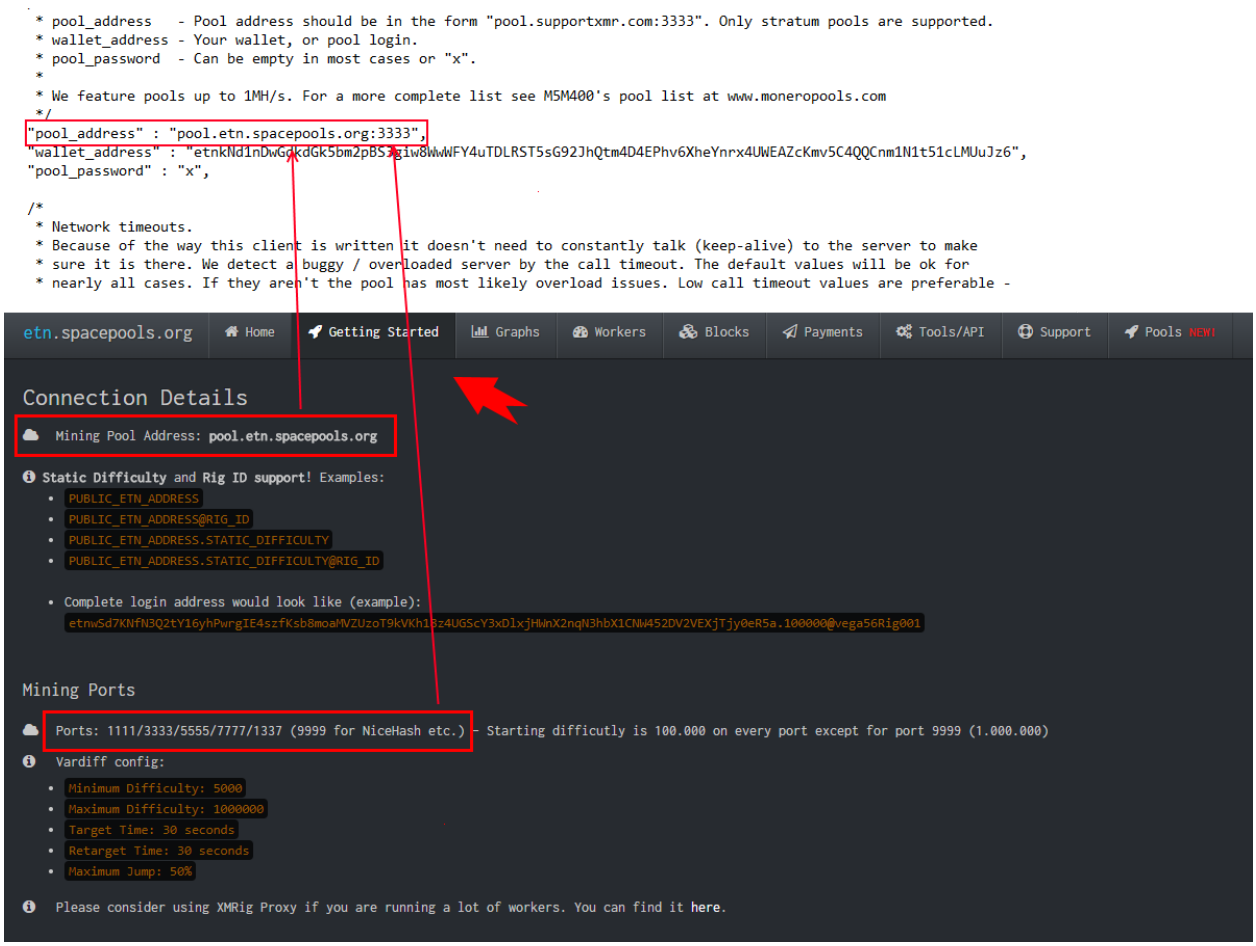
- Taking all cores will probably make it unusable for other tasks and push your CPU temperatures very high if not is not monitored closely
  So I suggest to use a maximum of 75%
  I will only make configs for up to 8 cores/threads

Cores/threads you want to use	**Download command for config file**
1 core/thread	*wget https://github.com/weffkemining/All/blob/master/Miners/Electroneum/Ubuntu/1core/config.txt*
2 cores/threads	*wget https://github.com/weffkemining/All/blob/master/Miners/Electroneum/Ubuntu/2cores/config.txt*
3 cores/threads	*wget https://github.com/weffkemining/All/blob/master/Miners/Electroneum/Ubuntu/3cores/config.txt*
4 cores/threads	*wget https://github.com/weffkemining/All/blob/master/Miners/Electroneum/Ubuntu/4cores/config.txt*
5 cores/threads	*wget https://github.com/weffkemining/All/blob/master/Miners/Electroneum/Ubuntu/5cores/config.txt*
6 cores/threads	*wget https://github.com/weffkemining/All/blob/master/Miners/Electroneum/Ubuntu/6cores/config.txt*
7 cores/threads	*wget https://github.com/weffkemining/All/blob/master/Miners/Electroneum/Ubuntu/7cores/config.txt*
8 cores/threads	*wget https://github.com/weffkemining/All/blob/master/Miners/Electroneum/Ubuntu/8cores/config.txt*

- Once it is done you can give all permissions and go into it and go change your address
  chmod 777 config.txt
  vi config.txt
- If you aren't sure on how to use vi have to do these steps:
  - Move around with your arrows
  - Press i to go into editing more (insert)
  - to go out and save you need to press escape then :wq (you'll see this appear on the bottom) to confirm enter

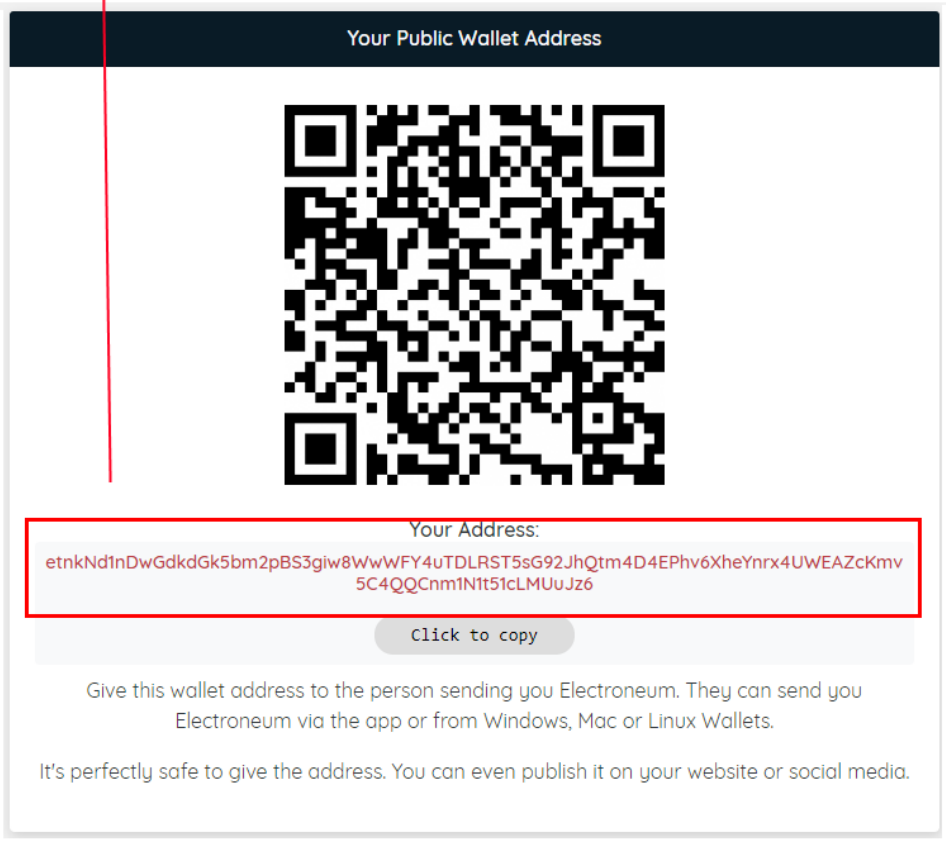
for additional info take a look at this beginners guide:
[Vim beginners guide]

- With the arrows go down until you see "pool_address"
The pool information can usually be found under the getting started Tab



- Next up is to add your Wallet address which is located right underneath

```
 * pool_address    - Pool address should be in the form "pool.supportxmr.com:3333". Only stratum pools are supported.
 * wallet_address - Your wallet, or pool login.
 * pool_password  - Can be empty in most cases or "x".
 *
 * We feature pools up to 1MH/s. For a more complete list see M5M400's pool list at www.moneropools.com
 */
"pool_address" : "pool.etn.spacepools.org:3333",
"wallet_address" : "etnkNd1nDwGdkdGk5bm2pBS3giw8WwWFY4uTDLRST5sG92JhQtm4D4EPhv6XheYnrx4UWEAZcKmv5C4QQCnm1N1t51cLMUuJz6",
"pool_password" : "x",

/*
 * Network timeouts.
 * Because of the way this client is written it doesn't need to constantly talk (keep-alive) to the server to make
 * sure it is there. We detect a buggy / overloaded server by the call timeout. The default values will be ok for
 * nearly all cases. If they aren't the pool has most likely overload issues. Low call timeout values are preferable -
```



- Now we can start the program
    - First we need to know in which directory you are.
      this can be done with the pwd command.

```
weffke@AzureFree:~/etnminer$ pwd
/home/weffke/etnminer
```

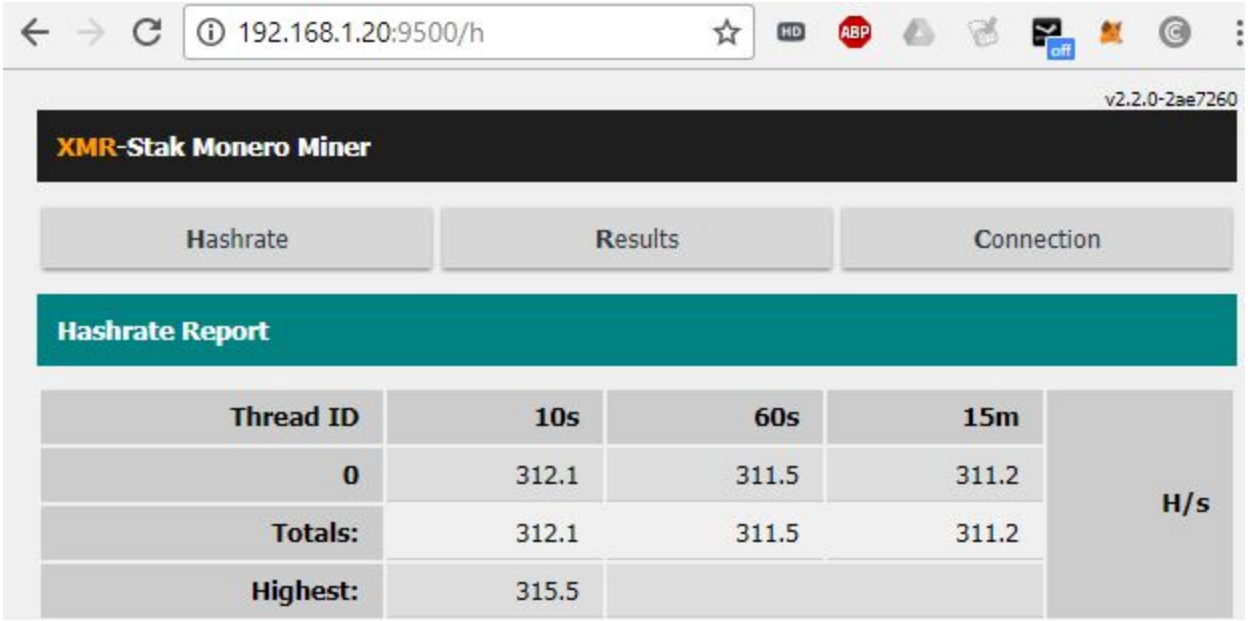
    - Knowing this you can start the program using this directory with xmr-stak-cpu and config.txt
    - Now run following command to start it. (make sure to use the correct path here)
      Don't forget to put the ampersand as this will make the program run in the background
      sudo /home/weffke/etnminer/xmr-stak-cpu /home/weffke/etnminer/config.txt &
- You once you've done this you'll see this kind of output and you can close the terminal it will continue to run in.

```
weffke@AzureFree:~/etnminer$ sudo /home/weffke/graftcpu/xmr-stak-cpu /home/weffke/graftcpu/config.txt
[2018-03-25 13:00:24] : MEMORY ALLOC FAILED: mmap failed
[2018-03-25 13:00:24] : MEMORY ALLOC FAILED: mmap failed
------------------------------------------------------------------
xmr-stak-cpu 1.3.0-1.5.0 mining software, CPU Version.
Based on CPU mining code by wolf9466 (heavily optimized by fireice_uk).
Brought to you by fireice_uk and psychocrypt under GPLv3.

Configurable dev donation level is set to 0.1 %

You can use following keys to display reports:
'h' - hashrate
'r' - results
'c' - connection
------------------------------------------------------------------
[2018-03-25 13:00:24] : Starting double thread, affinity: 0.
[2018-03-25 13:00:24] : Connecting to pool pool.graft.spacepools.org:3333 ...
[2018-03-25 13:00:24] : hwloc: memory pinned
[2018-03-25 13:00:24] : MEMORY ALLOC FAILED: mmap failed
[2018-03-25 13:00:24] : MEMORY ALLOC FAILED: mmap failed
[2018-03-25 13:00:24] : Connected. Logging in...
[2018-03-25 13:00:24] : Difficulty changed. Now: 50000.
[2018-03-25 13:00:24] : New block detected.
[2018-03-25 13:00:46] : Difficulty changed. Now: 35000.
[2018-03-25 13:00:46] : New block detected.
[2018-03-25 13:00:58] : New block detected.
[2018-03-25 13:01:16] : Difficulty changed. Now: 24500.
[2018-03-25 13:01:16] : New block detected.
[2018-03-25 13:01:47] : Difficulty changed. Now: 17150.
[2018-03-25 13:01:47] : New block detected.
```

- By using the "ps -ef|grep xmr" command you can see if the program is running.

```
weffke@AzureFree:~/etnminer$ ps -ef|grep xmr
root       1969      1  0 Mar23 ?        00:00:00 sudo /home/weffke/graftcpu/xmr-stak-cpu /home/weffke/graftcpu/config.txt
root       1987   1969 93 Mar23 ?        1-12:09:28 /home/weffke/graftcpu/xmr-stak-cpu /home/weffke/graftcpu/config.txt
weffke    16191  14607  0 12:54 pts/1    00:00:00 grep --color=auto xmr
```

- In the configuration it also has a web interface you can check your hashrates. Just go to the ip:9500



Now you just have to let the device do its calculations and you will start gaining Electroneum