Sumokoin Ubuntu CPU mining

Sumokoin

About

Sumokoin is digital Cash For Highly-Confidential Transactions.
Official website

Main characteristic

- **Private**
  SUMOKOIN is created with a high level of privacy in mind, setting Ring Confidential Transactions (RingCT) with minimum ringsize (mixin) of 12 to conceal sources/amounts transferred and make it high resistance to blockchain analysis
- **Untraceable**
  SUMOKOIN is untraceable; sending and receiving addresses are encrypted, transacted amounts are obfuscated by default. Transactions on the SUMOKOIN blockchain cannot be linked to a particular user or real-world identity.
- **Decentralized**
  SUMOKOIN follows Satoshi Nakamoto's vision of decentralized, trustless cryptocurrency, i.e. a secure digital cash operated by a network of users. Transactions are confirmed by distributed consensus, and then recorded on the blockchain immutably. Third-parties do not need to be trusted to keep your SUMOKOIN safe.
- **Fungible**
  SUMOKOIN is truly fungible, thanks to built-in privacy features. Just like cash, all SUMOKOIN are equal, changeable. It is extremely unlikely that coin will ever be blacklisted by any party due to its association in previous transactions.

Wallet

Sumokoin has its own GUI wallet for Windows, MacOSX and Linux.
See the Wallet page on how it works.

Mining Pool

I'm using the official Sumokoin pool but there are many others.
The official pool has a 1 % fee and has a payout of 0.5 SUMO.
When selecting a mining pool when mining with a mobile device with a low hashrate it is important to take a pool with a low payout.
You won't be generating a lot 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, 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.
Recently I've been mining on Spacepools as they have an adjustable payout and a 0.1% fee.
They also have many other cryptonight pools.
I really suggest using this one.
You can also find different Sumokoin pools on the sumopools website.

- Official pool
- Sumopools
- 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.

Instructions

Risks

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

Written instructions

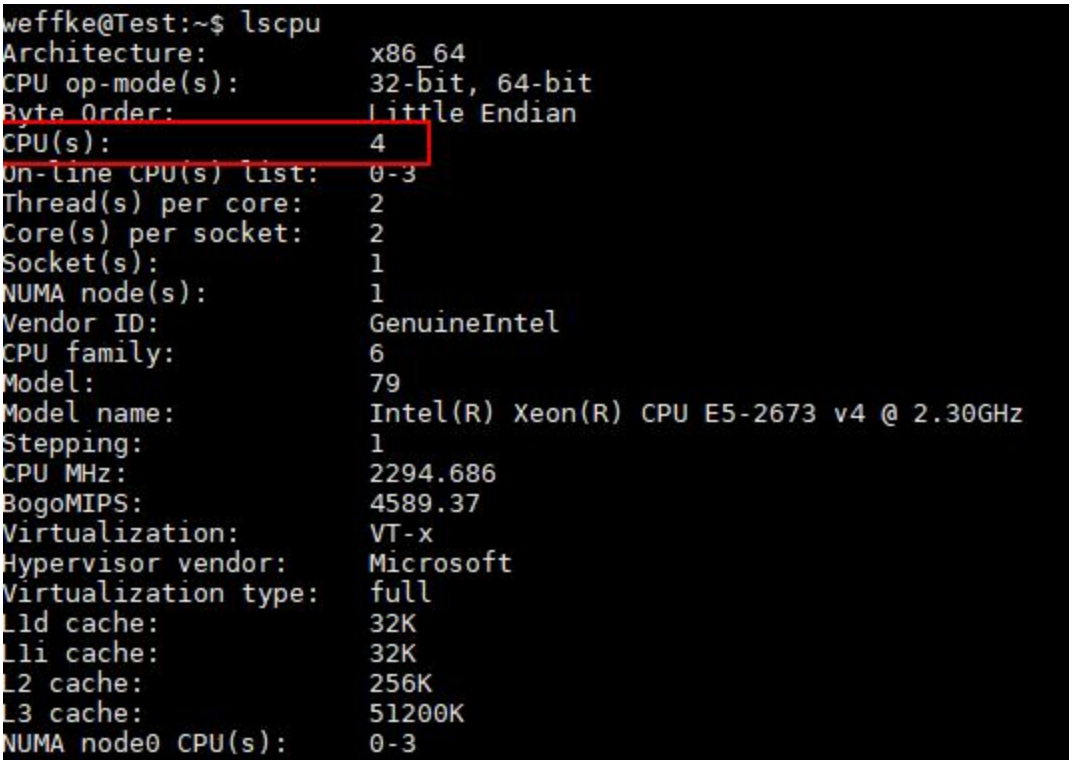
- To start off we'll do following commands to get everything ready to build the miner binary.

  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 ../sumominer
  sudo cp bin/xmr-stak-cpu ../sumominer/.
  cd ../sumominer

- 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://raw.githubusercontent.com/weffkemining/All/master/Miners/SumoKoin/Ubuntu/1core/config.txt
2 cores/threads	wget https://raw.githubusercontent.com/weffkemining/All/master/Miners/SumoKoin/Ubuntu/2cores/config.txt
3 cores/threads	wget https://raw.githubusercontent.com/weffkemining/All/master/Miners/SumoKoin/Ubuntu/3cores/config.txt
4 cores/threads	wget https://raw.githubusercontent.com/weffkemining/All/master/Miners/SumoKoin/Ubuntu/4cores/config.txt
5 cores/threads	wget https://raw.githubusercontent.com/weffkemining/All/master/Miners/SumoKoin/Ubuntu/5cores/config.txt
6 cores/threads	wget https://raw.githubusercontent.com/weffkemining/All/master/Miners/SumoKoin/Ubuntu/6cores/config.txt
7 cores/threads	wget https://raw.githubusercontent.com/weffkemining/All/master/Miners/SumoKoin/Ubuntu/7cores/config.txt
8 cores/threads	wget https://raw.githubusercontent.com/weffkemining/All/master/Miners/SumoKoin/Ubuntu/8cores/config.txt

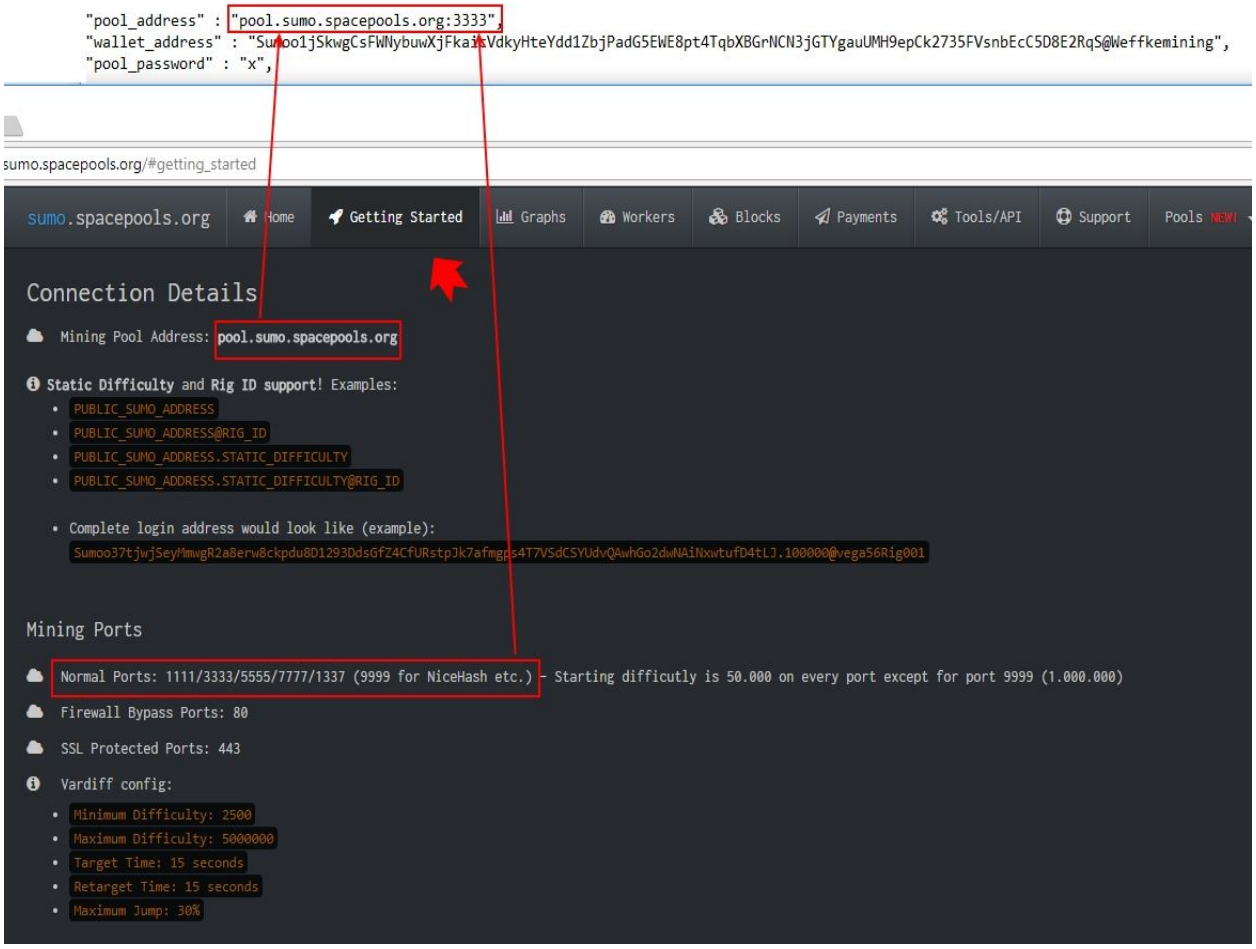
- Once it is done you can give all permissions and go into it and go change your address

  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

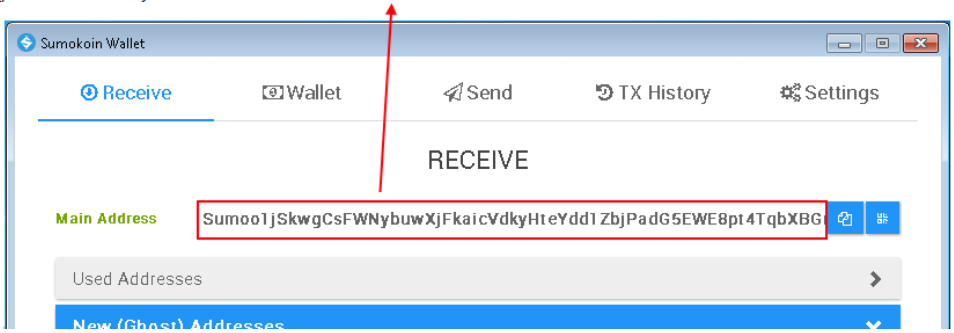
    for additional info take a look at this beginners guide:
    [Vim beginners guide]

- 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.sumo.spacepools.org:3333",
wallet_address" : "Sumoo1jSkwgCsFWNybuwXjFkaicVdkyHteYdd1ZbjPadG5EWE8pt4TqbXBGrNCN3jGTYgauUMH9epCk2735FVsnbEcC5D8E2RqS@Weffkemining",
pool_password" : "x",
```



- 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:~/sumominer$ pwd
/home/weffke/sumominer
```

- 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/sumominer/xmr-stak-cpu /home/weffke/sumominer/config.txt &

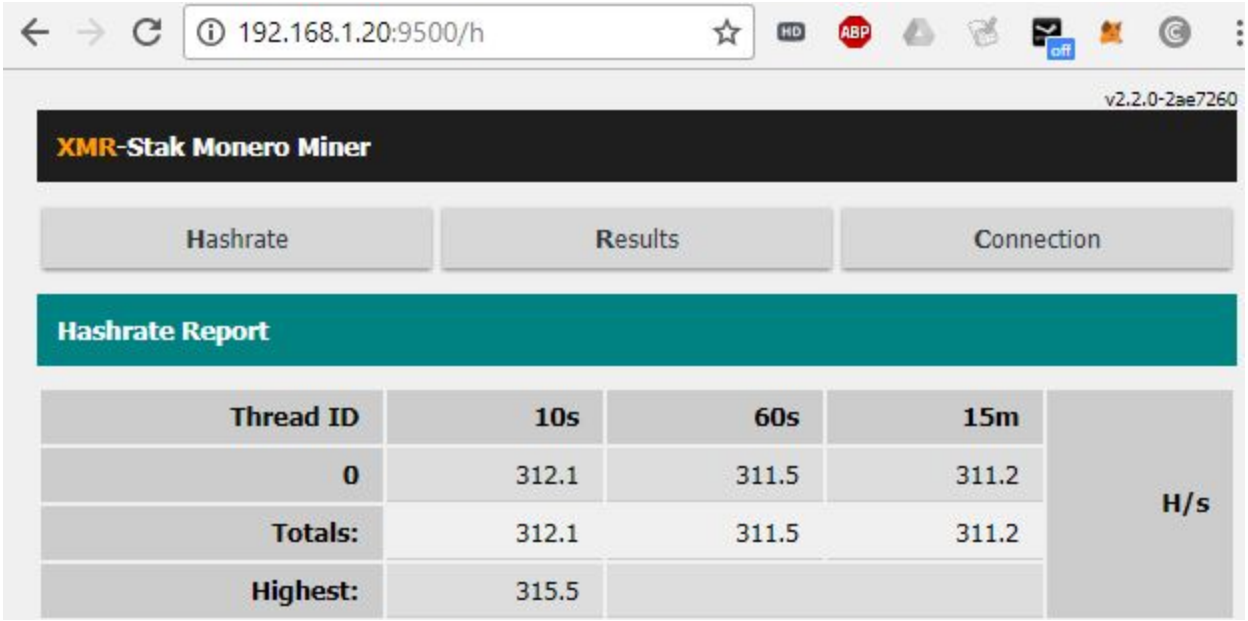
- You once you've done this you'll see this kind of output and you can close the terminal it will continue to run in.

```
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:~$ ps -ef|grep xmr
root      25389  24887  0 18:15 pts/0    00:00:00 sudo /home/weffke/sumominer/xmr-stak-cpu /home/weffke/sumominer/config.txt
root      25390  25389 74 18:15 pts/0    00:00:14 /home/weffke/sumominer/xmr-stak-cpu /home/weffke/sumominer/config.txt
weffke    25491  25469  0 18:15 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 Sumo