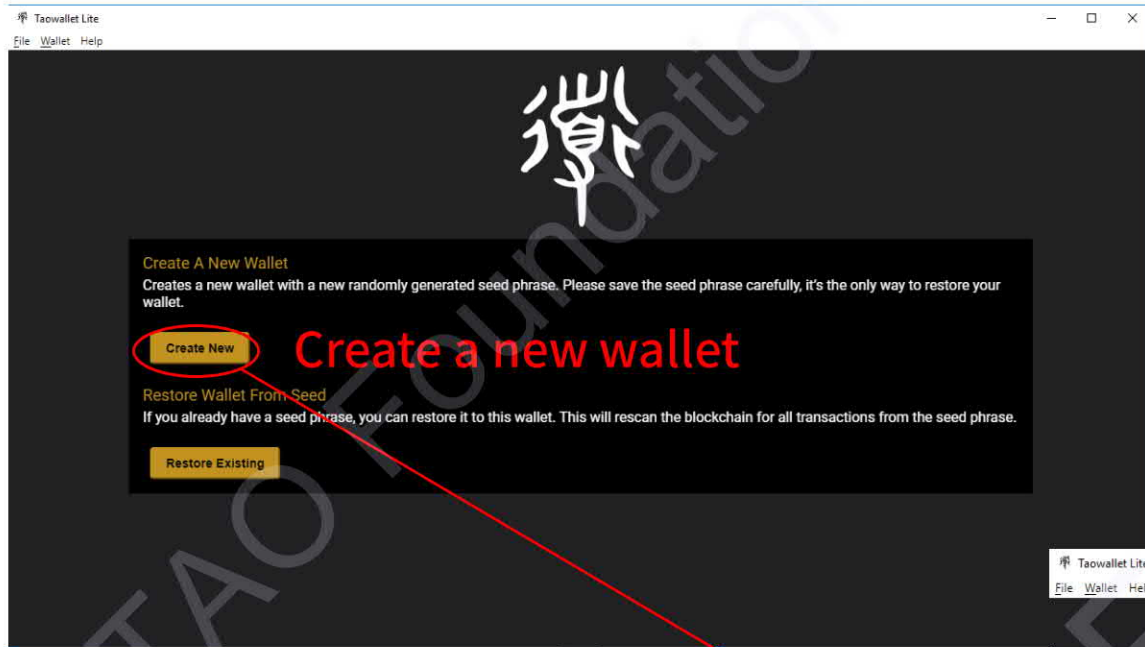# Plot and Mine

The TAO Foundation

V 1.0

Apr.17th 2021

Create your 1ˢᵗ wallet
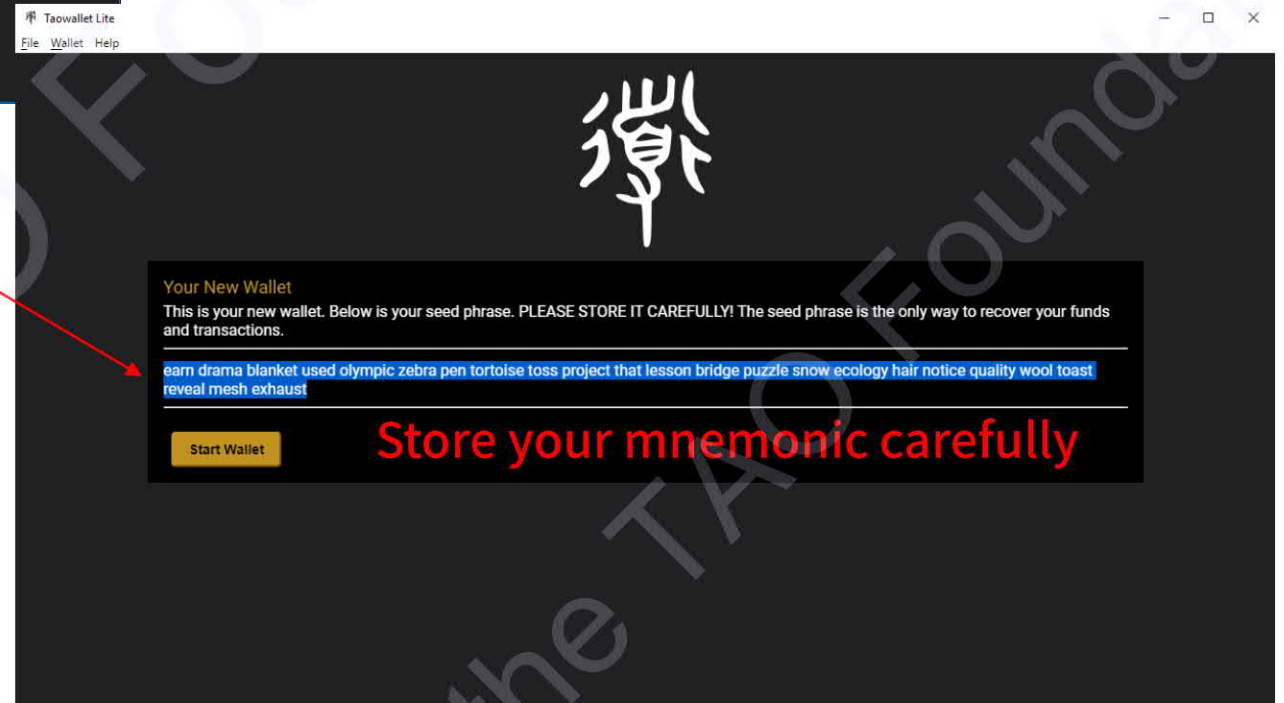
3 steps to get your plot id

1
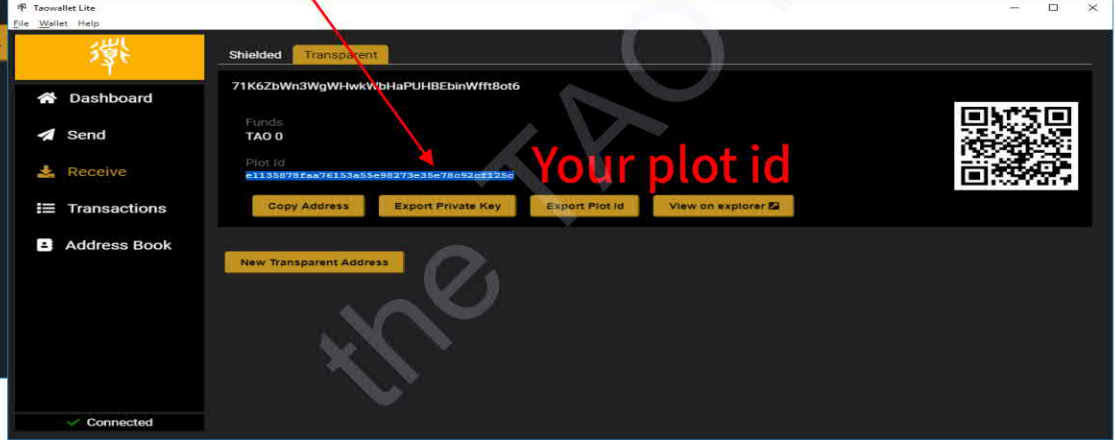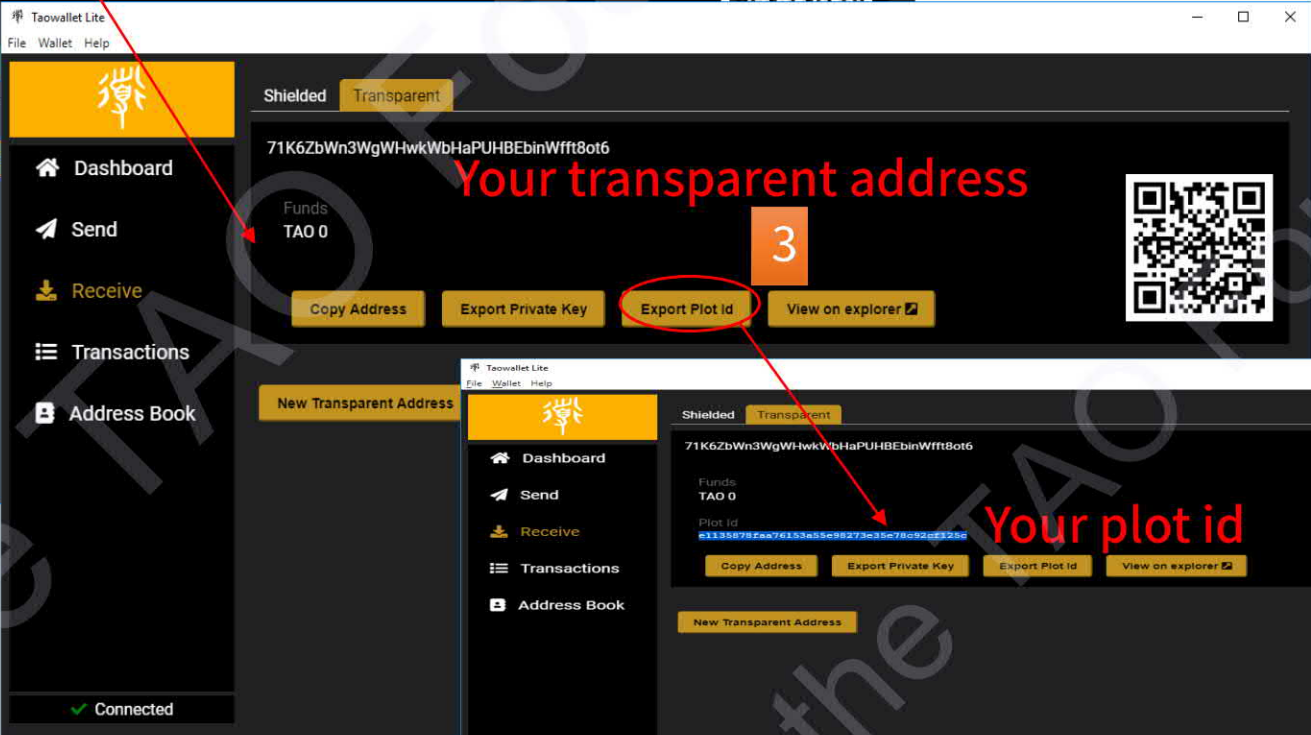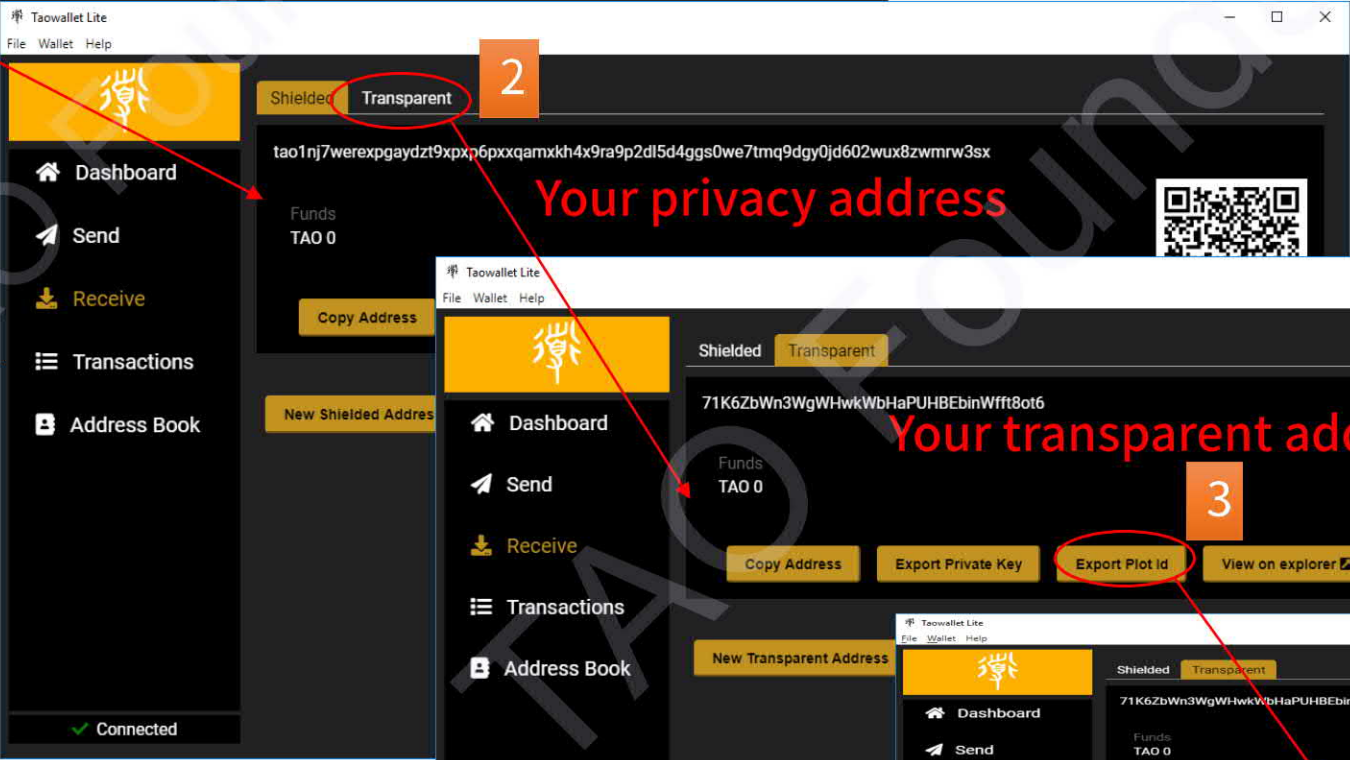
2

Your privacy address
tao1nj7werexpgaydzt9xpxp6pxxqamxkh4x9ra9p2dl5d4ggs0we7tmq9dgy0jd602wux8zwmrw3sx

3

Your transparent address
71K6ZbWn3WgWHwkWbHaPUHBEbinWfft8ot6

Your plot id
e1138878faa76153a55e98273e35e78c92cf125c

Plotting

Plot id

Current start nonce

The name of plot file is plotid_StartNonce_NumberofNonce
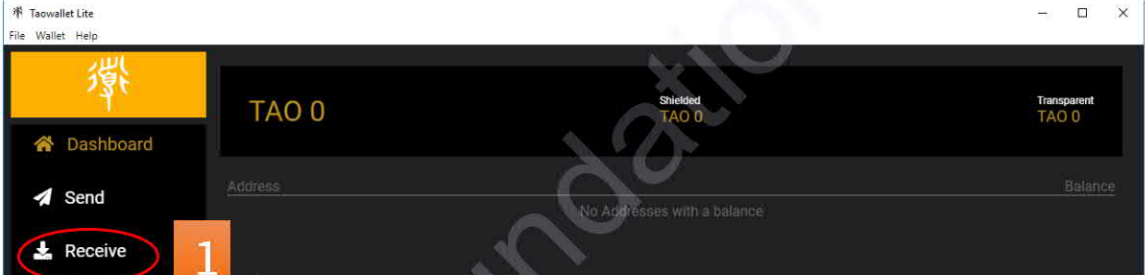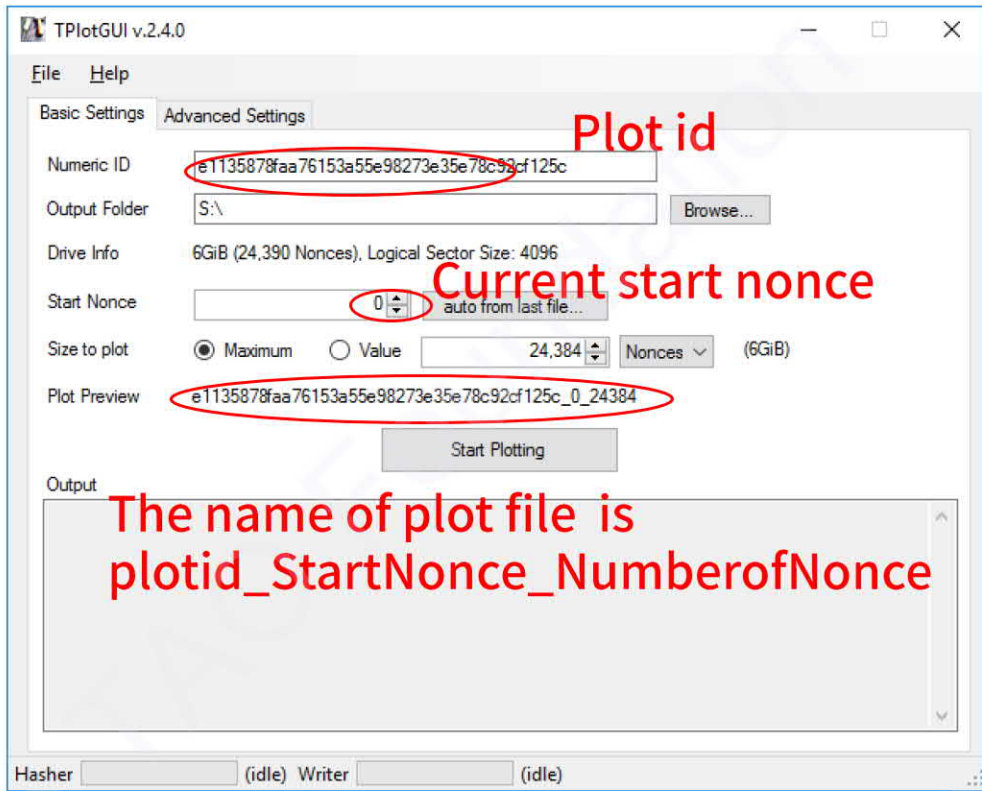
Fill in the number of threads you want to use, which is generally consistent with the system prompt.
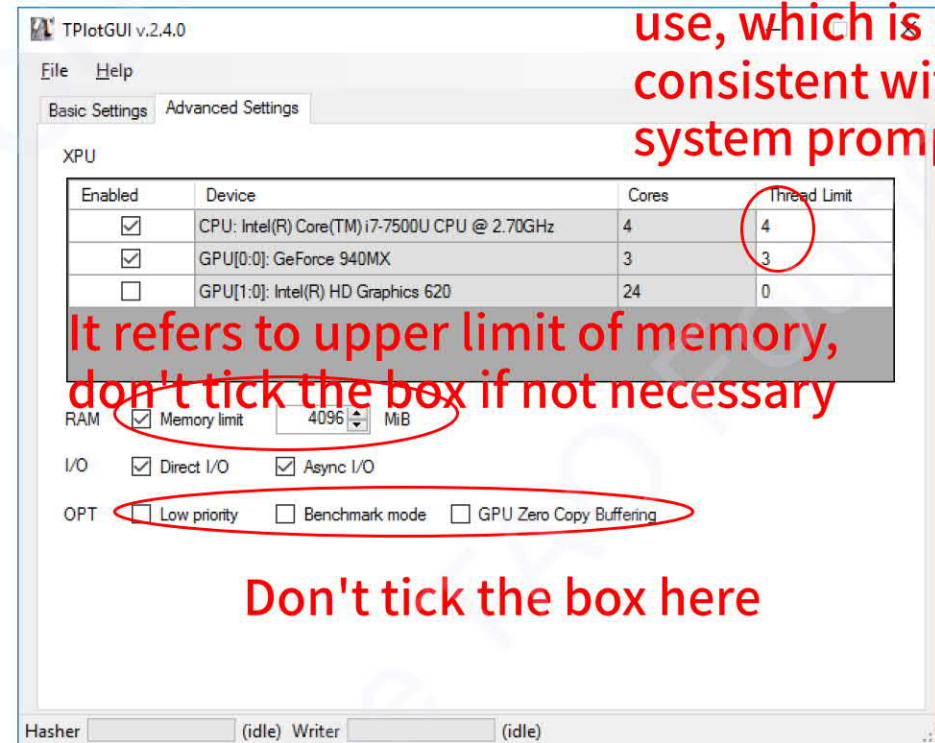
It refers to upper limit of memory, don't tick the box if not necessary
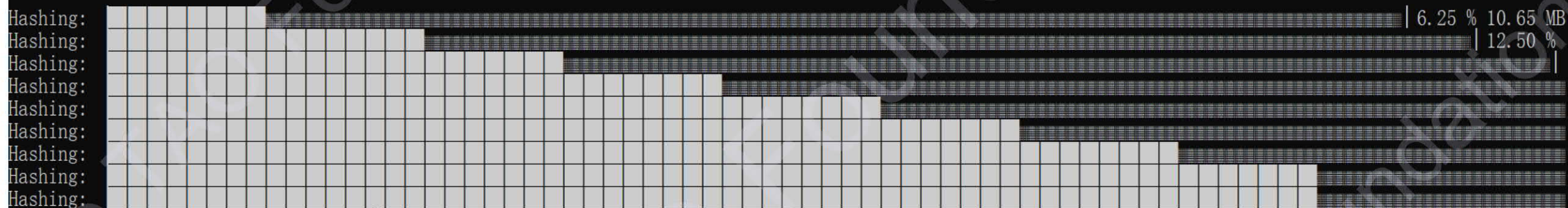
Don't tick the box here

1. First, install .Net framework runtime 4.7, then run tpgui.exe, which is only working under 64-bit systems.
2. Make sure your plot id is correct.
3. Check the FAQ for start nonce tip.
4. You can choose "Maximum" directly, or choose "Value" to specify the size to plot.
5. Each nonce occupies 256k bytes. The plotting capability in NTFS file system of Windows is about 3814720 nonce/T, while in ext4 file system of Linux is about 3560320 nonce/T.

```
R:\plot>engraver_cpu.exe -i 893accb84aad6227ffa936a0df263c0512b83525 -s 0 -n 1024 -p r:\
Engraver 2.5.0 - PoC2 Plotter

CPU: Intel(R) Core(TM) i5-6200U CPU @ 2.30GHz [using 4 of 4 cores (SIMD = AVX2)
RAM: Total=7.87 GiB, Free=3.92 GiB, Usage=0.25 GiB
Numeric ID:  893accb84aad6227ffa936a0df263c0512b83525
Start Nonce: 0
Nonces:      1024
Output File: r:\893accb84aad6227ffa936a0df263c0512b83525_0_1024

Fast file pre-allocation...OK
Starting plotting...

Hashing:                                                    | 6.25 % 10.65 MB
Hashing:                                                    | 12.50 %
Hashing:                                                    |
Hashing:
Hashing:
Hashing:
Hashing:
Hashing:
Hashing:
```

engraver_cpu.exe -i 893accb84aad6227ffa936a0df263c0512b83525 -s 0 -n 1024 -p r:\
Use CPU-only command lines to plot harddisks

-i : plot ID

-s : current start nonce

-n : the total number of nonce. If you chose -n 0, that means it will automatically full-fill the disk.

-p : the path of plot files

-m: Specify how much RAM to use, for example -m 4G will only use 4G RAM, but in most cases it is not recommended to use this parameter.

Before use GPU plotter, use –o option to get your graphics card info:
engraver_gpu.exe –o

```
C:\xm\tao\d1\p_n_m>engraver_gpu -o
OCL: platform 0, NVIDIA CUDA - OpenCL 1.2 CUDA 11.2.162
OCL:    device 0, NVIDIA Corporation - GeForce RTX 2080 SUPER
OCL:      cores=48,kernel_workgroupsize=256
OCL:
```

engraver_gpu.exe -g 0:0:48 -c 4 -i 893accb84aad6227ffa936a0df263c0512b83525 -s 0 -n 1024 -p r:\

-g : Specify which GPU to use, in this case 0:0:48 is the info obtained by the previous -o parameter, which refers to platform id, devices id and cores in order.

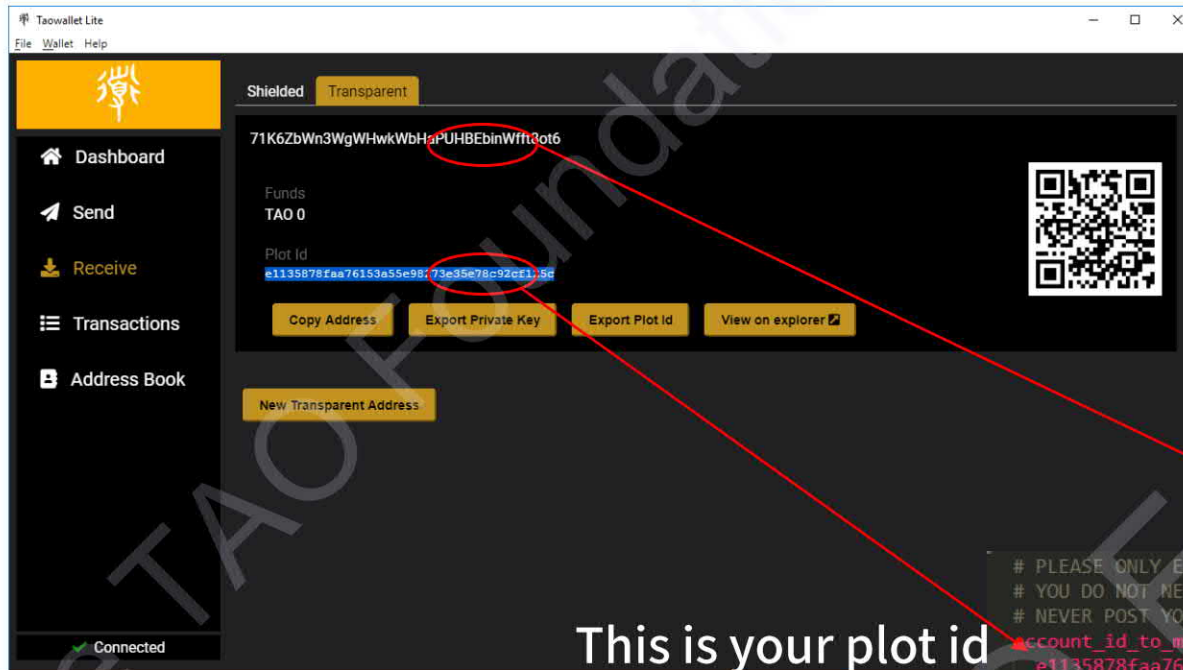-c : The amount of CPU cores to use, this case is 4 cores to use.

-i : The plot ID

-s : The start nonce

-n : the total number of nonce. If you chose -n 0, that means it will automatically full-fill the disk.

-p : The path of plot files

-m: Specify how much RAM to use, for example -m 4G will only use 4G RAM, but in most cases it is not recommended to use this parameter.

Mining

This is your transparent address beginning with 7

This is your plot id

Your path of local plot files is kept here on demand.

1. Put config.yaml and tminer.exe under the same directory.
2. Currently, you only need to configurate three parameters: mining id, mining address and the directory of plot files.
3. After all settings done, double click tminer.exe to start, which is only working under 64-bit systems