

# Vertcoin P2Pool Tutorial

## Introduction

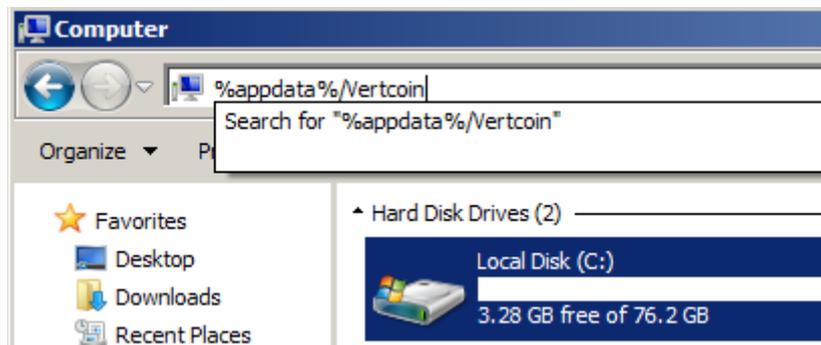
This tutorial assumes you are running Windows, you already have a working Vertcoin wallet running on your computer and know how to correctly set up the miner for your GPU to connect to a given pool. If you are not running Windows, there are instructions for building it on Ubuntu below. If you do not yet have a Vertcoin wallet you can download one from here: <https://vertcoin.org/>. If you are unsure how to correctly set up your miner, please refer to one of the other tutorials in this collection.

## 1. Download P2Pool

Grab the latest version of P2Pool from here: <https://github.com/metalicjames/p2pool-Lyra2RE/releases> and unzip it to a location of your choice.

## 2. Set up your wallet

Browse to "%appdata%/Vertcoin" in a Windows Explorer window.



There, either edit the file named "vertcoin.conf" or create it if it doesn't exist. Inside "vertcoin.conf" paste the following text:

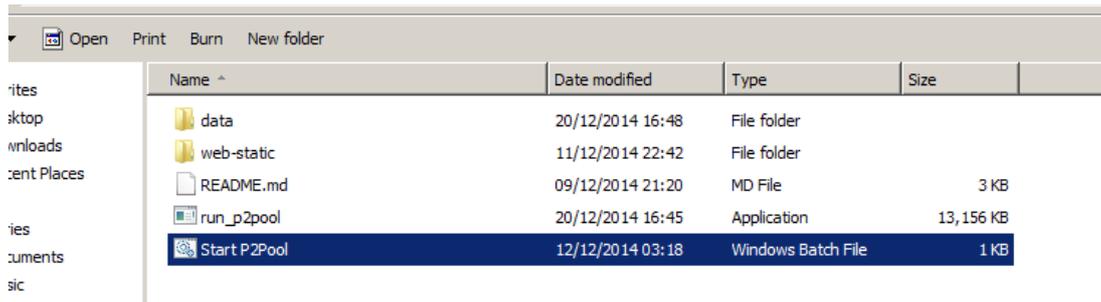
```
server=1
```

```
rpcallowip=127.0.0.1
rpcuser=vertcoinrpc
rpcpassword=A_SECURE_PASSWORD
```

Replace "A\_SECURE\_PASSWORD" with a really secure, random password of your choice. Save the file and either start or restart your Vertcoin wallet.

## 3. Start P2Pool

Now start P2Pool by double-clicking the "Start P2Pool.bat" file. P2Pool is now running!



## 4. Configure and start your miner

Configure your miner to connect to "stratum+tcp://127.0.0.1:9171/" with your username as your VTC payout address and anything as your password then start your miner. If you are unsure how to do this, refer to one of the other tutorials or ask the community for help. My configuration file looks like this (for sgminer):

```
"pools" : [
  {
    "url" : "stratum+tcp://127.0.0.1:9171",
    "user" : "Vpo7cGddMJJ1VHu68ws9QSwc9frafalos8wy",
    "pass" : "p"
  }
]
```

Sgminer users will also need to start their miner with the "--no-extranonce" flag. If your miner window looks something like this then everything is going well:

The screenshot shows a Windows command prompt window titled "C:\Windows\system32\cmd.exe" with the following output:

```
sgminer 5.0.0 - Started: [2014-12-30 13:06:59] - [5 days 09:55:06]
<20s>:498.9K <avg>:509.1K/s | A:7071 R:35 HW:0 WU:0.912/m
ST: 1 SS: 0 NB: 3138 LW: 678195 GF: 0 RF: 0
Connected to 127.0.0.1 (stratum) diff 0.015 as user Upo7cGddMJJ1VHu68ws9QSwc9fra
Block: a9ef10b6... Diff:103 Started: [22:58:48] Best share: 2.36K

IPool management [GPU management [S]ettings [D]isplay options [Q]uit
GPU 0: 62.0C 1654RPM | 504.5K/509.1K/s | R: 0.5% HW:0 WU:0.912/m rI:5120

[23:01:52] Accepted 0182d0a3 Diff 0.331/0.015 GPU 0
[23:01:53] Accepted 1bef2e95 Diff 0.018/0.015 GPU 0
[23:01:53] Accepted 026be684 Diff 0.206/0.015 GPU 0
[23:01:54] Accepted 12ff9f17 Diff 0.026/0.015 GPU 0
[23:01:54] 127.0.0.1 difficulty changed to 0.015
[23:01:57] Accepted 05e3dede Diff 0.085/0.015 GPU 0
[23:01:57] Accepted 0ef7e230 Diff 0.033/0.015 GPU 0
[23:01:58] Accepted 04a2a5bd Diff 0.108/0.015 GPU 0
[23:01:59] Accepted 04462ed8 Diff 0.117/0.015 GPU 0
[23:02:01] Accepted 0ee539b0 Diff 0.034/0.015 GPU 0
[23:02:02] 127.0.0.1 difficulty changed to 0.015
[23:02:04] Accepted 0b0f737a Diff 0.045/0.015 GPU 0
[23:02:05] Accepted 04e2906c Diff 0.102/0.015 GPU 0
[23:02:05] Accepted 1dc0eb71 Diff 0.017/0.015 GPU 0
```

# Ubuntu Instructions

Run these commands from a terminal window. They were tested on a clean Ubuntu 14.04 LTS VPS installation.

```
sudo apt-get update
sudo apt-get upgrade
sudo apt-get dist-upgrade
```

```
sudo apt-get install build-essential git libboost-all-dev libminiupnpc-dev libssl-dev libtool autoconf libgmp-dev libdb++-dev python-twisted
```

```
git clone https://github.com/bitcoin/secp256k1.git
cd secp256k1
./autogen.sh
./configure
make
sudo make install
```

```
cd ../
git clone https://github.com/vertcoin/vertcoin.git
cd vertcoin/src
make -f makefile.unix USE_UPNP=1
strip --strip-unneeded vertcoind
cp vertcoind ~/
```

```
cd ~/
mkdir .vertcoin
cd .vertcoin
nano vertcoin.conf
Paste the following (replacing "A_SECURE_PASSWORD" with a secure password of your choice) and save the file:
```

```
server=1
rpcallowip=127.0.0.1
rpcuser=vertcoinrpc
rpcpassword=A_SECURE_PASSWORD
```

```
cd ../
./vertcoind -daemon
```

```
git clone https://github.com/metalicjames/lyra2re-hash-python.git
python setup.py install
```

```
git clone https://github.com/metalicjames/p2pool-lyra2re.git
python run_p2pool.py --net vertcoin
```