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### Ubuntu系统下进行XMR门罗币Monero挖矿的超详细图文教程

(2017-12-23 11:24:11)

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标签: 门罗币

首先, 我们今天要演示的是挖XMR Monero (门罗币), 在挖币前, 我们首先了解一下挖币需要用到的几个参数:

- 1、交易账号
- 2、钱包地址
- 3、Payment ID
- 4、Worker ID
- 5、邮箱地址

上面5个东西是挖矿中需要用到的, 前2个是必须的, 后面3个视设置而定, 有时候可以不用。

#### 1、创建交易账号和生成钱包地址

下面我们先来注册一个交易账号, 交易账号是用来干什么的呢? 说白了就是用来存储你挖回来的XMR币的, 然后你可以在这个交易网站上进行交易。

交易账号我选择的是Hitbtc这个网站注册, 注册地址是: [https://hitbtc.com/?ref\\_id=5a06b4a396d5e](https://hitbtc.com/?ref_id=5a06b4a396d5e)

注册完成后, 在左上的导航中选择【账户】



然后在下面的列表中找到【XMR Monero】, 点击左边的按钮, 即可生成钱包地址, 如下图

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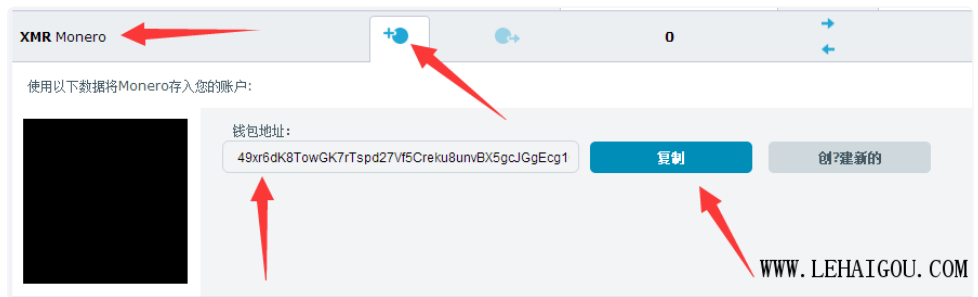


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然后我们要把这个钱包地址复制起来，后面需要用到。

## 2、生成Payment ID

这个Payment ID有时候可以不用，但是这里我们还是说一下如何生成。这个生成的办法其实也比较简单，实际就是生成一串随机数，这里我们随便找一台Linux系统，然后执行命令：openssl rand -hex 32

```
root@vultr:~# openssl rand -hex 32
581d29f17c19bd168a14db431bb4af63baaf6344d13293278257a6f69c370242
root@vultr:~#
```

然后将生成的内容复制起来等待使用。

## 3、编译安装挖矿软件

这里我选择使用Ubuntu 17.10系统做演示，请依次执行下面的命令

```
sudo apt-get -y install git
```

```
git clone https://github.com/fireice-uk/xmr-stak-cpu.git
```

```
sudo apt-get -y install libmicrohttpd-dev libssl-dev cmake build-essential
```

```
cd xmr-stak-cpu/
```

```
cmake -DHWLOC_ENABLE=OFF .
```

```
make install
```

```
[ 83%] Building CXX object CMakeFiles/xmr-stak-cpu.dir/socket.cpp.o
[ 88%] Building CXX object CMakeFiles/xmr-stak-cpu.dir/webdesign.cpp.o
[ 94%] Building CXX object CMakeFiles/xmr-stak-cpu.dir/crypto/cryptonight_common.cpp.o
[100%] Linking CXX executable bin/xmr-stak-cpu
[100%] Built target xmr-stak-cpu
Install the project...
-- Install configuration: "Release"
-- Installing: /root/xmr-stak-cpu/bin/config.txt
root@vultr:~/xmr-stak-cpu#
```

看到上图时说明安装已经安成。

## 4、配置挖矿参数

刚安装好挖矿软件，我们先进入bin目录，然后执行一次挖矿软件，获得推荐的CPU线程参数（因为这个挖矿实际是利用空闲的CPU进行计算，所以这里主要消耗的就是CPU）

```
cd bin
```

```
./xmr-stak-cpu
```

执行后得到类似下面的结果

```
root@vultr: /xmr-stak-cpu/bin# ./xmr-stak-cpu
The configuration for 'cpu_threads_conf' in your config file is 'null'.
The miner evaluates your system and prints a suggestion for the section 'cpu_threads_conf' to the terminal.
The values are not optimal, please try to tweak the values based on notes in config.txt.
Please copy & paste the block within the asterisks to your config.

[2017-12-23 00:52:29] : Autoconf L3 size detected at 16384 KB.
[2017-12-23 00:52:29] : Autoconf core count detected as 1 on Linux.

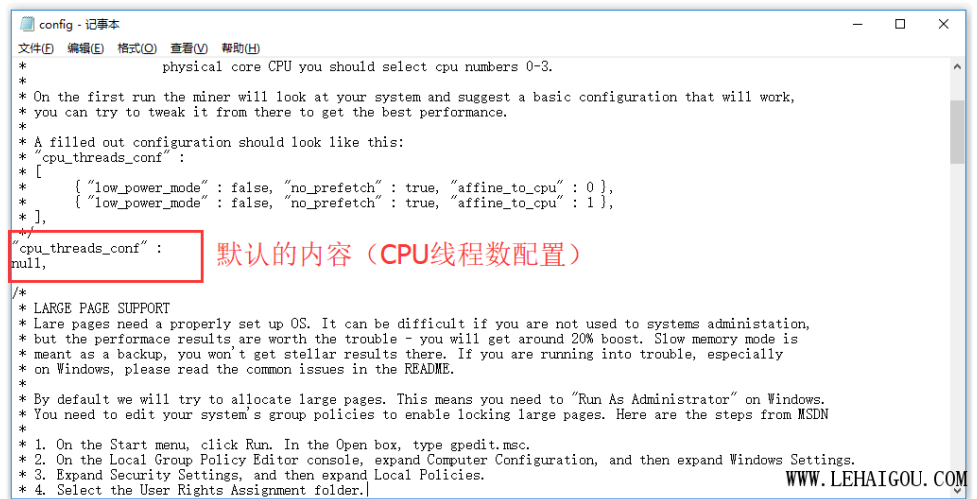
***** Copy&Paste BEGIN *****

"cpu_threads_conf" :          这一段就是我们要的内容
[
  { "low_power_mode" : true, "no_prefetch" : true, "affine_to_cpu" : 0 },
],

***** Copy&Paste END *****
root@vultr: /xmr-stak-cpu/bin#
```

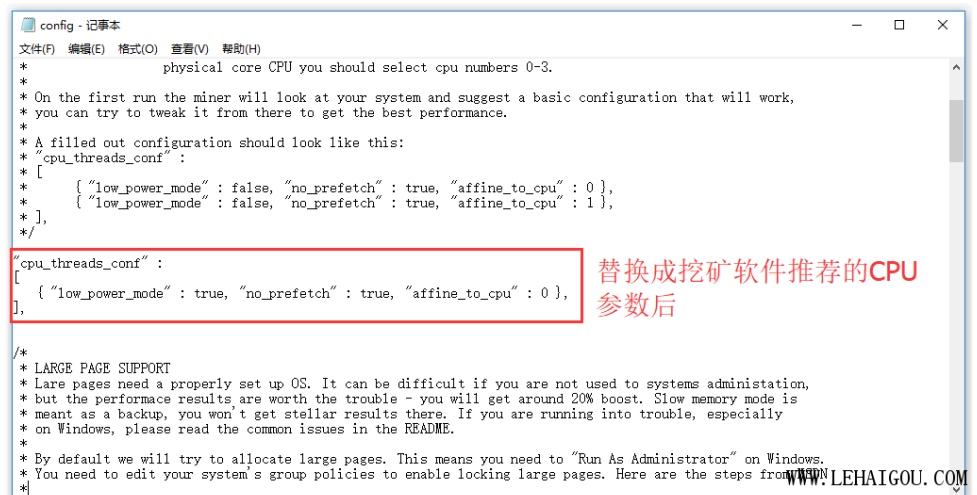
我们将红框内的内容复制出来备用。然后使用vi/vim编辑器在线编辑，或者使用ftp、sftp的方式将当前目录下的config.txt配置文件下载到本地进行编辑。

打开config.txt文件，找到默认的【"cpu\_threads\_conf" : null,】，然后替换成上面红框的内容



```
config - 记事本
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

*
*      physical core CPU you should select cpu numbers 0-3.
*
* On the first run the miner will look at your system and suggest a basic configuration that will work,
* you can try to tweak it from there to get the best performance.
*
* A filled out configuration should look like this:
* "cpu_threads_conf" :
* [
*   { "low_power_mode" : false, "no_prefetch" : true, "affine_to_cpu" : 0 },
*   { "low_power_mode" : false, "no_prefetch" : true, "affine_to_cpu" : 1 },
* ],
*
* "cpu_threads_conf" :
* null,
*
/*
* LARGE PAGE SUPPORT
* Large pages need a properly set up OS. It can be difficult if you are not used to systems administration,
* but the performance results are worth the trouble - you will get around 20% boost. Slow memory mode is
* meant as a backup, you won't get stellar results there. If you are running into trouble, especially
* on Windows, please read the common issues in the README.
*
* By default we will try to allocate large pages. This means you need to "Run As Administrator" on Windows.
* You need to edit your system's group policies to enable locking large pages. Here are the steps from MSDN
*
* 1. On the Start menu, click Run. In the Open box, type gpedit.msc.
* 2. On the Local Group Policy Editor console, expand Computer Configuration, and then expand Windows Settings.
* 3. Expand Security Settings, and then expand Local Policies.
* 4. Select the User Rights Assignment folder.
*
WWW.LEHAIGOU.COM
```



```
config - 记事本
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

*
*      physical core CPU you should select cpu numbers 0-3.
*
* On the first run the miner will look at your system and suggest a basic configuration that will work,
* you can try to tweak it from there to get the best performance.
*
* A filled out configuration should look like this:
* "cpu_threads_conf" :
* [
*   { "low_power_mode" : false, "no_prefetch" : true, "affine_to_cpu" : 0 },
*   { "low_power_mode" : false, "no_prefetch" : true, "affine_to_cpu" : 1 },
* ],
*
* "cpu_threads_conf" :
* [
*   { "low_power_mode" : true, "no_prefetch" : true, "affine_to_cpu" : 0 },
* ],
*
/*
* LARGE PAGE SUPPORT
* Large pages need a properly set up OS. It can be difficult if you are not used to systems administration,
* but the performance results are worth the trouble - you will get around 20% boost. Slow memory mode is
* meant as a backup, you won't get stellar results there. If you are running into trouble, especially
* on Windows, please read the common issues in the README.
*
* By default we will try to allocate large pages. This means you need to "Run As Administrator" on Windows.
* You need to edit your system's group policies to enable locking large pages. Here are the steps from MSDN
*
* 1. On the Start menu, click Run. In the Open box, type gpedit.msc.
* 2. On the Local Group Policy Editor console, expand Computer Configuration, and then expand Windows Settings.
* 3. Expand Security Settings, and then expand Local Policies.
* 4. Select the User Rights Assignment folder.
*
WWW.LEHAIGOU.COM
```

这里大家可能注意到，我这个CPU线程参数只有一个线程，这是为什么呢？因为我现在演示使用的单核CPU的VPS主机，所以这里只有一个线程，大家以后挖矿的时候要注意不要使用VPS，因为容易长期过高占用CPU导致被封号或者停机，如果想挖矿，尽量使用独立服务器。

修改完CPU的参数后，下面我们继续修改config.txt文件。找到下面这三行：

"pool\_address" : "pool.usxmrrpool.com:3333" ,

"wallet\_address" : "" ,

"pool\_password" : "" ,

pool\_address是矿池的地址，就是从哪里挖矿的意思。wallet\_address就是钱包地址，也就是我们前面生成的那个钱包地址。pool\_password这个密码一般不用管，直接设置为x即可。

那么矿池地址从哪里来呢？可以在这里找<http://pool.monero.org/>，不过好像打开很慢，不知道是不是我的网络问题。这里呢，我就直接选用了网上比较多人推荐使用的矿池<https://xmr.nanopool.org/>

首先我们打开<https://xmr.nanopool.org/help>，然后往下拉，找到地址列表

Location	Server Host	Stratum Port	SSL/TLS Port ⓘ
Europe	xmr-eu1.nanopool.org	14444	14433
Europe	xmr-eu2.nanopool.org	14444	14433
US East	xmr-us-east1.nanopool.org	14444	14433
US West	xmr-us-west1.nanopool.org	14444	14433
Asia	xmr-asia1.nanopool.org	14444	14433
Japan	xmr-jp1.nanopool.org	14444	14433
Australia	xmr-au1.nanopool.org	14444	14433

这里我选择了第一个，将Server Host和Stratum Port记下来，例如这里的：

xmr-eu1.nanopool.org

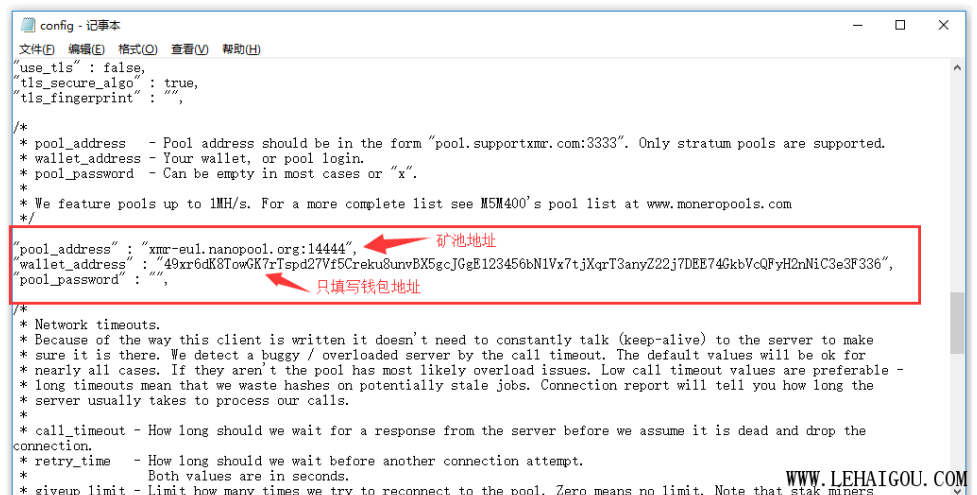
然后回到我们的config.txt文件，在pool\_address矿池地址那里填上xmr-eu1.nanopool.org:14444，即把Server Host和Stratum Port拼在一起，中间用冒号分隔。

然后我们来配置钱包地址wallet\_address，这里呢有2种写法：

1、直接填写钱包地址

2、钱包地址.PaymentID.WorkerId/邮箱地址

我们先来说第一种，这种也就是最简单的，直接把我们在交易网站那里生成的钱包地址复制进去即可，如下图：



```
config - 记事本
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

"use_tls" : false,
"tls_secure_algo" : true,
"tls_fingerprint" : "",

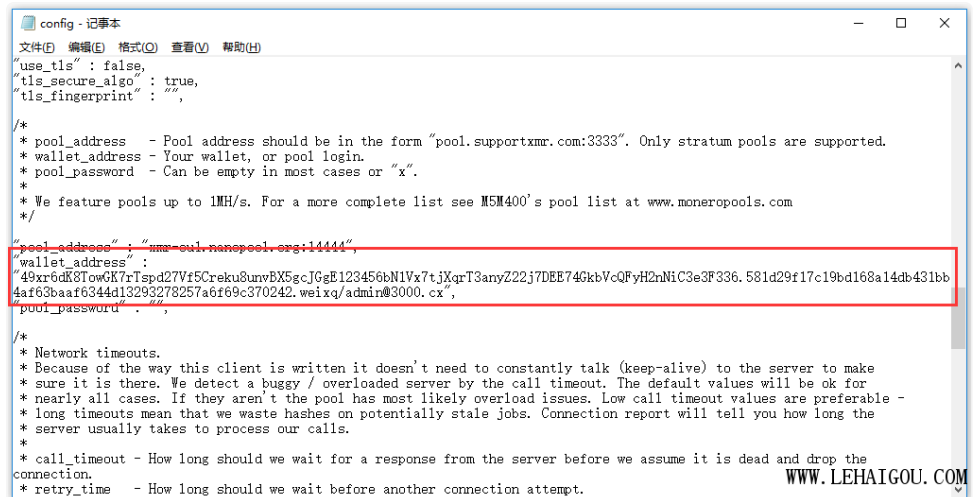
/*
 * pool_address - Pool address should be in the form "pool.supportxmr.com:3333". Only stratum pools are supported.
 * wallet_address - Your wallet, or pool login.
 * pool_password - Can be empty in most cases or "x".
 *
 * We feature pools up to 1MH/s. For a more complete list see M5M400's pool list at www.moneroopools.com
 */
"pool_address" : "xmr-eu1.nanopool.org:14444",
"wallet_address" : "49xr6dK8TowGK7rIspd27Vi5Creku8unvBX5gcJGgE123456bN1Vx7tjXqrT3anyZ22j7DEE74GkbVcQFyH2nNiC3e3F336",
"pool_password" : "",

/*
 * 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 -
 * long timeouts mean that we waste hashes on potentially stale jobs. Connection report will tell you how long the
 * server usually takes to process our calls.
 *
 * call_timeout - How long should we wait for a response from the server before we assume it is dead and drop the
 * connection.
 * retry_time - How long should we wait before another connection attempt.
 * Both values are in seconds.
 * giveup_limit - Limit how many times we try to reconnect to the pool. Zero means no limit. Note that stak miners
 */
```

第2种写法呢，就是把PaymentID、WorkerID和你的邮箱地址填写进去，那么填写多这三个资料有什么作用呢？

填多这三样资料，在后面挖矿的过程中，假如我们有多台服务器一直挖矿，那么我们可以区分是哪台服务器。填写邮箱地址是为了后面修改挖矿的最低支付额度（nanopool默认的支付额度是1个XMR，后面我们可以设置为0.3个XMR），而邮箱就是密码。

至于WorkerID，这个纯粹就是一个编号来的了，也是我们自己随便填写的。例如我下面填写完整的参数：



```
config - 记事本
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

"use_tls" : false,
"tls_secure_algo" : true,
"tls_fingerprint" : "",

/*
 * 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" : "xmr-eul.nanopool.org:14444",
"wallet_address" :
"49xr6dK8TowGK7rTspd27Vf5Creku8urwBX5gcJGgE123456bN1Vx7tjXqrT3anyZ22j7DEE74GkbVcQFyH2nNiC3e3F336.581d29f17c19bd168a14db431bb
4af63baaf6344d13293278257a6f69c370242.weixq/admin@3000.cx",
"pool_password" : "x",

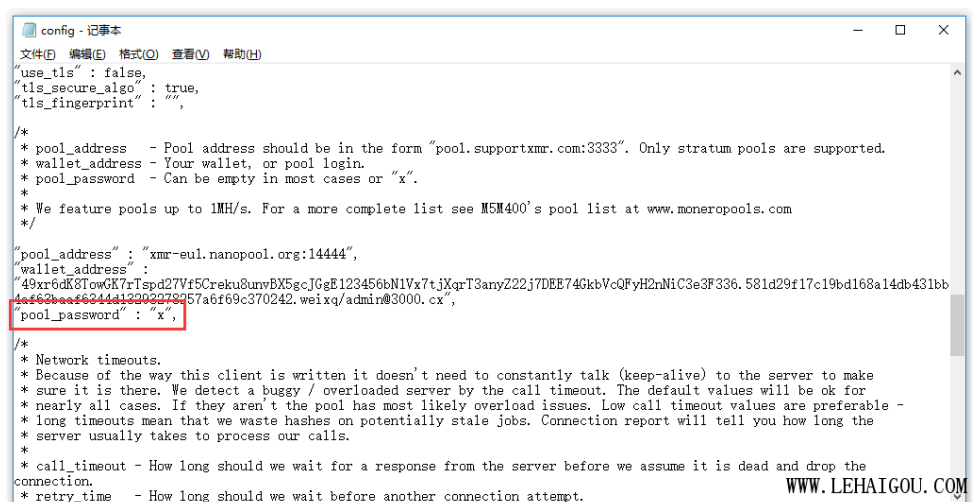
/*
 * Network timeouts.
 * Because of the way this client is written it doesn't need to constantly talk (keep-alive) to the server to make
 * sure it is there. We detect a buggy / overloaded server by the call timeout. The default values will be ok for
 * nearly all cases. If they aren't the pool has most likely overload issues. Low call timeout values are preferable -
 * long timeouts mean that we waste hashes on potentially stale jobs. Connection report will tell you how long the
 * server usually takes to process our calls.
 *
 * call_timeout - How long should we wait for a response from the server before we assume it is dead and drop the
 * connection.
 * retry_time - How long should we wait before another connection attempt.
 */
```

注意：4个参数之间的分隔符号不同，钱包地址跟PaymentID中间用实心的点分隔，PaymentID和WorkerID中间也是用实心的点分隔，而WorkerID和邮箱之间是用斜线/分隔，完整的格式如下：

## 钱包地址.PaymentID.WorkerId/邮箱地址

提示：WorkerID就是用户名，随便取的。大家喜欢填啥都可以的

最后我们把pool\_password密码设置为x即可，如下图：



```
config - 记事本
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

"use_tls" : false,
"tls_secure_algo" : true,
"tls_fingerprint" : "",

/*
 * 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" : "xmr-eul.nanopool.org:14444",
"wallet_address" :
"49xr6dK8TowGK7rTspd27Vf5Creku8urwBX5gcJGgE123456bN1Vx7tjXqrT3anyZ22j7DEE74GkbVcQFyH2nNiC3e3F336.581d29f17c19bd168a14db431bb
4af63baaf6344d13293278257a6f69c370242.weixq/admin@3000.cx",
"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 -
 * long timeouts mean that we waste hashes on potentially stale jobs. Connection report will tell you how long the
 * server usually takes to process our calls.
 *
 * call_timeout - How long should we wait for a response from the server before we assume it is dead and drop the
 * connection.
 * retry_time - How long should we wait before another connection attempt.
 */
```

到此为止，我们的config.txt配置就已经全部搞定了，将文件保存一下。

## 5、开始挖矿

下面就到了最重要的时刻，我们开始挖矿~

执行./xmr-stak-cpu，发现提示MEMORY ALLOC FAILED: mmap failed，实际上这个问题不需要解决，但是有些朋友可能有强迫症，所以在这里我也提供一下解决方案：

(1)先按ctrl + c 停止挖矿

(2)执行sudo sysctl -w vm.nr\_hugepages=128

```
root@vultr:~/xmr-stak-cpu/bin# sudo sysctl -w vm.nr_hugepages=128
vm.nr_hugepages = 128
```

(3)编辑文件/etc/security/limits.conf，然后在里面加入下面两行内容并保存


\* soft memlock 262144

\* hard memlock 262144

```
#*          soft    core      0
#root       hard    core     100000
#*          hard    rss      10000
#@student   hard    nproc    20
#@faculty   soft    nproc    20
#@faculty   hard    nproc    50
#ftp        hard    nproc    0
#ftp        -       chroot   /ftp
#@student   -       maxlogins 4

* soft memlock 262144
* hard memlock 262144

# End of file
```



(4)断开ssh连接或者重启服务器，**注意重启服务器需要重新执行一次**sudo sysctl -w vm.nr\_hugepages=128

上面的步骤完成后，重新进入到我们的挖矿程序的bin目录下，然后执行./xmr-stak-cpu，然后可以看到挖矿已经开始~


```
root@vultr:~/xmr-stak-cpu/bin# ./xmr-stak-cpu

-----
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 2.0 %

You can use following keys to display reports:
'h' - hashrate
'r' - results
'c' - connection
-----

[2017-12-23 01:37:48] : Starting double thread, affinity: 0.
[2017-12-23 01:37:48] : Connecting to pool xmr-eul.nanopool.org:14444 ...
[2017-12-23 01:37:48] : Connected. Logging in...
[2017-12-23 01:37:49] : Difficulty changed. Now: 120001.
[2017-12-23 01:37:49] : New block detected.
```



根据提示可以按下键盘的h键查看当前CPU的计算能力（简称算力），如下图：

```
[2017-12-23 01:37:48] : Starting double thread, affinity: 0.
[2017-12-23 01:37:48] : Connecting to pool xmr-eul.nanopool.org:14444 ...
[2017-12-23 01:37:48] : Connected. Logging in...
[2017-12-23 01:37:49] : Difficulty changed. Now: 120001.
[2017-12-23 01:37:49] : New block detected.
[2017-12-23 01:38:10] : New block detected.
[2017-12-23 01:38:54] : New block detected.
HASHRATE REPORT


| ID | 2.5s | 60s  | 15m  |
|----|------|------|------|
| 0  | 63.1 | 64.1 | (na) |


-----
Totals: 63.1 64.1 (na) H/s
Highest: 70.4 H/s
```

如果显示是0，则可能是刚开始挖矿，需要稍微等一等。算力越高，挖矿的速度越快。

## 7、设置后台挖矿

大家都知道，Linux是基本命令行的，当我们断开SSH连接后，当前执行中的程序也会被中止，那么怎么办呢？我们不可能24小时开着SSH看着挖矿的啊~其实很简单，我们只要使用screen命令就可以搞定了，具体的说明大家自行百度一下，我这里只说几个简单的操作

(1)按下ctrl + c 停止挖矿

(2)安装screen，执行apt install screen -y

(3)输入screen，进入到screen的控制台窗口

(4)进入到我们的挖矿程序bin目录下，然后执行挖矿程序./xmr-stak-cpu

(5)按键盘的ctrl + a，然后放开，再按下键盘d，退出screen窗口，左下角可以看到提示

```
You can use following keys to display reports:
'h' - hashrate
'r' - results
'c' - connection
-----
[2017-12-23 01:44:02] : Starting double thread, affinity: 0.
[2017-12-23 01:44:02] : Connecting to pool xmr-eul.nanopool.org:14444 ...
[2017-12-23 01:44:02] : Connected. Logging in...
[2017-12-23 01:44:03] : Difficulty changed. Now: 120001.
[2017-12-23 01:44:03] : New block detected.

[detached from 14638.pts-0.vultr]
root@vultr: ~/xmr-stak-cpu/bin#
```

(6)查看我们当前有哪些screen任务，执行screen -ls或者screen -list(两个命令的效果是一样的)，如下图，可以看到我们当前有一个任务在做着，进程id是14638

```
root@vultr: ~/xmr-stak-cpu/bin# screen -ls
There is a screen on:
  14638.pts-0.vultr      (12/23/2017 01:43:56 AM)      (Detached)
1 Socket in /run/screen/S-root.
root@vultr: ~/xmr-stak-cpu/bin# screen -list
There is a screen on:
  14638.pts-0.vultr      (12/23/2017 01:43:56 AM)      (Detached)
1 Socket in /run/screen/S-root.
root@vultr: ~/xmr-stak-cpu/bin#
```

(7)恢复挖矿界面，执行screen -r 14638，回到我们的挖矿界面。这样一来，我们就实现了断开ssh后一样可以在后台挖矿了。如果想要退出screen界面继续挖矿，那么按下ctrl + a，放开键盘，再按下d即可



## 8、查看挖矿收益

挖矿是开始了，但是怎么查看收益呢？还记得我们用的是哪个矿池不？是  
<https://xmr.nanopool.org/>

首先我们进入到<https://xmr.nanopool.org/>，然后在右上角有个搜索，这里可以输入我们的钱包地址或者PaymentID，然后搜索，即可查看到我们的收益。如果搜索不到，则可能是刚刚开始挖矿，还没有数据，需要耐心等待一会。

Minimum payout is 0.3 XMR

Account: 49xr6dK8TowGK7rTspd27Vf5Creku8unvBX5qcJGq123456bN1Vx7tjXqrT3anyZ22j7DEE74GkbVcQFyH2nNiC3e3F336  
Payment-ID: 1b86015133c1234567ca4156abffc0caf4a387a947b3b197850b7ab5fd3f005f

Current Calculated Hashrate	Average Hashrate for last 6 hours	Balance	Unconfirmed Balance
210.0 H/s	373.3 H/s	0.00191307 XMR	0.0003150 XMR

JSON Data Settings

在这里我们可以看到默认支付额度是0.3，那是因为我已经修改过了。如果要修改的话，可以点击Settings进行更改

User Settings

To change your account settings, you must specify new parameters and password(email of your workers). If you do not want to change some settings, leave fields of these settings blank.  
You must use one email for all of your workers.  
To be able to change your settings you must use the email optional parameter with every miner you have, and it's value must be the same. To find examples how to mine with email using your miner, please check the Help page (EMAIL / YOUR\_EMAIL is what you should replace with your email). You can use a real email to receive offline workers notifications from the pool or just a secret word to access the settings.  
Every worker now has it's own rating - it is the number of shares, submitted with current email option. When you change the email in worker's configuration, rating is reseted to 0. When the worker is offline for 2+ days, it is automatically removed from the website and it's rating is reseted to 0 too.  
If you are getting "incorrect password" message:  
1) Check all the workers use the same email  
2) Workers have more than 10 rating  
3) There are no workers with high rating and old email (probably offline)

Password(email)  这里填写的就是之前在config.txt文件里面配置的邮箱地址

Minimum payout  修改为0.3

Current minimum payout

Apply changes Reset Form Cancel

但是修改这个需要Rating达到10，Rating是什么呢？我们可以把网页往下拉

Workers	Payments	Shares	Calculator
Worker <input type="text" value="weixq"/>			
Online 1 Offline 0 Total 1			
Last Share		Rating	Hashrate
several minutes ago		10	Now

这个就是我们之前设置的WorkerID

挖矿大概半小时左右这个Rating就能达到10了，达到10之后我们就可以将最低支付额度修改为0.3了。当我们挖矿收益达到0.3了，矿池就会将我们的收益打到Hitbtc交易网站的账号里面，即我们之前生成的钱包里面。

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