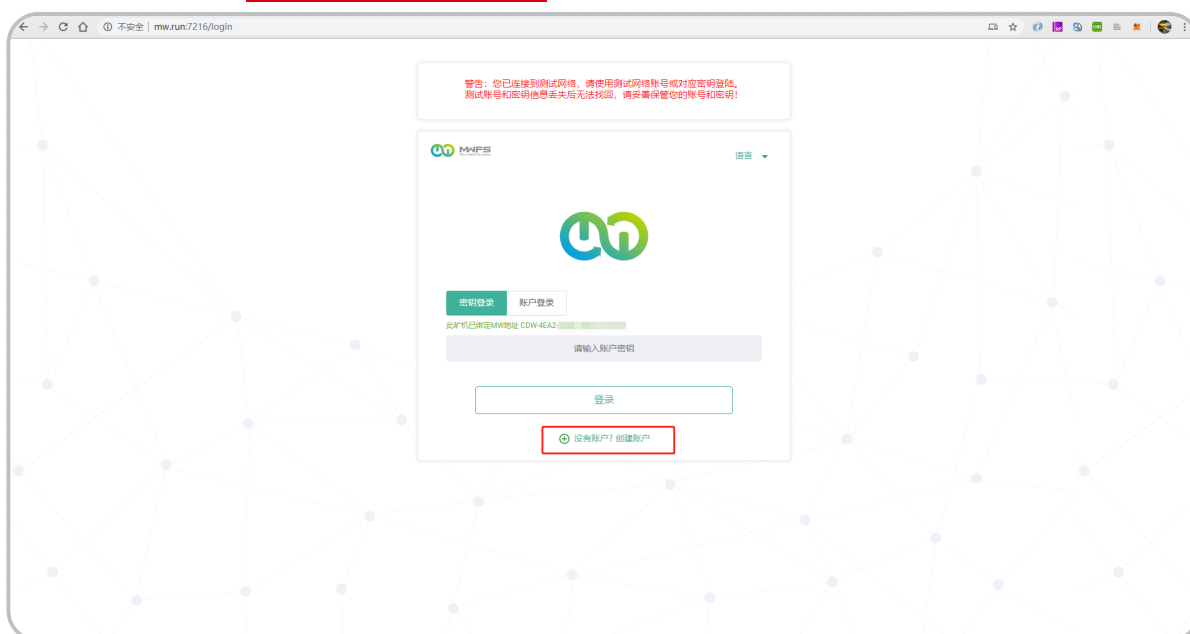


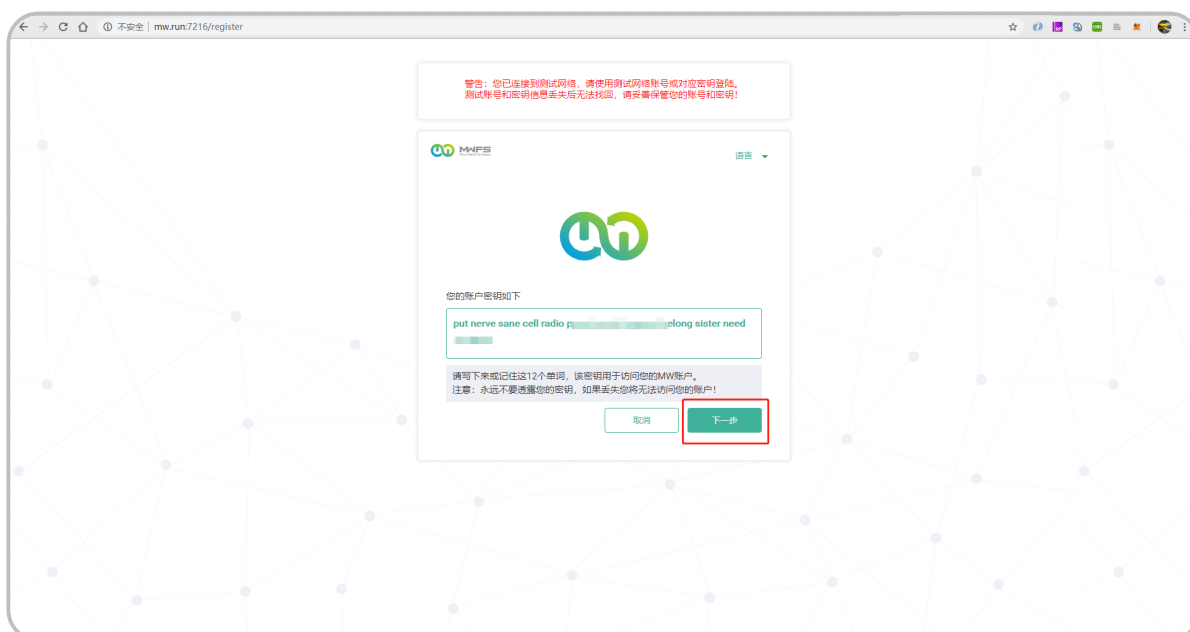
1 创建MW地址

1.1 创建MW地址过程会得到 MW地址密钥，创建完成后会显示 MW地址。切记保存好 MW地址密钥，MW地址密钥是矿机在MW网络的重要凭证，不可找回。

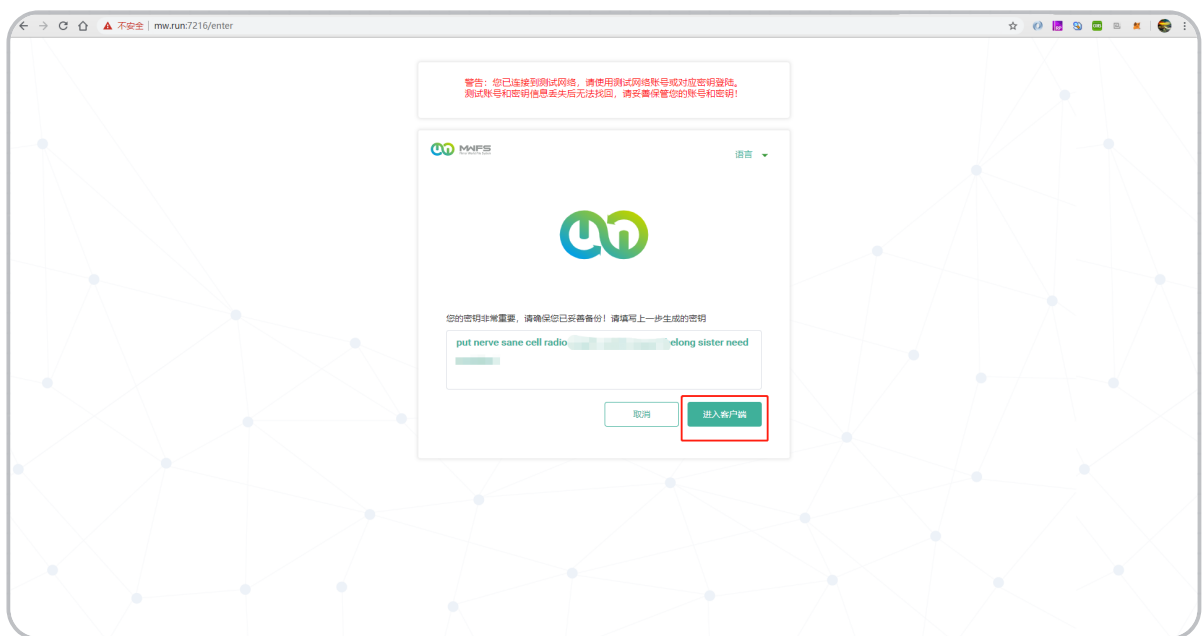
1. 在浏览器地址栏打开 <https://testboot.mw.run/login>，点击‘没有账户? 创建账户’：



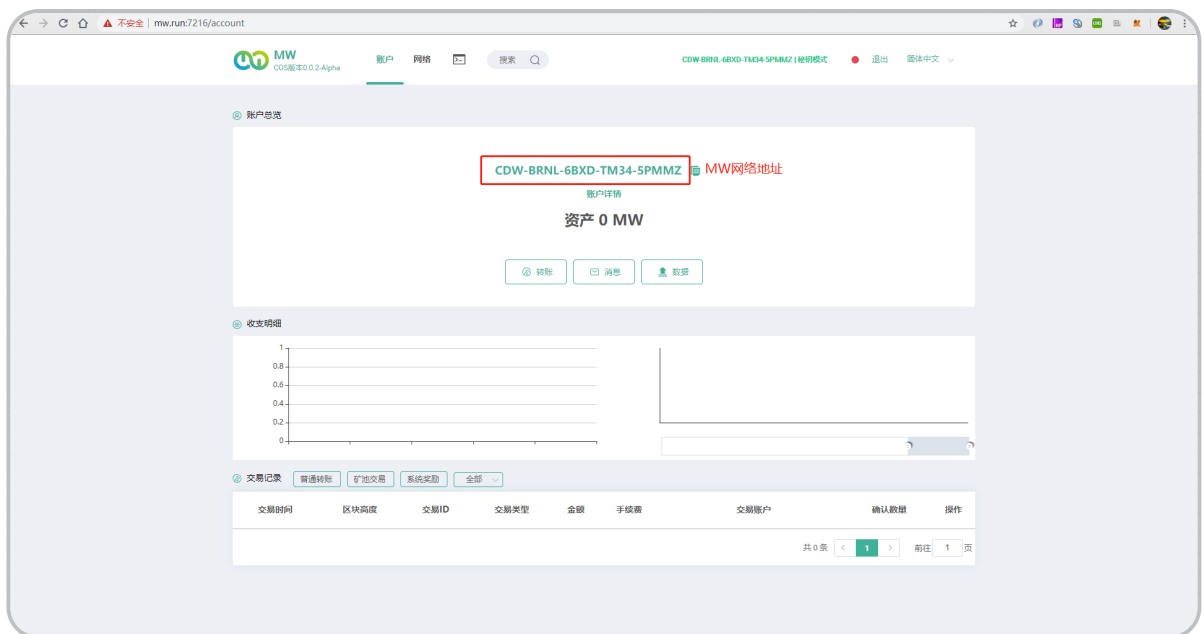
2. MW网络会算法生成一个 MW地址密钥，保存好地址密钥，点击‘下一步’：



3. 输入第2步保存的地址密钥，点击‘进入客户端’：



4. 成功后进入，MW地址 创建完成，在主界面显示有 MW网络地址；保存好地址密钥，MW地址密钥是矿机在MW网络的重要凭证。



1.2 MW挖矿程序安装

1. MW挖矿程序安装前必须是已拿到‘矿机编号’，否则无法顺利安装，且编号必须同矿机主板序列号对应；
2. 登录Linux(Ubuntu)系统，切换到 root ：

```
1 #命令如下两种都可
2 sudo su -
3 su root
```

3. 保持在 root 根目录，执行下载安装脚本：

```
1 wget http://mwfs.oss-cn-shenzhen.aliyuncs.com/cos/client/hub/hub_install_cos.sh
```

4. 给安装脚本赋予执行权限，确认赋权成功：

```
1 chmod 667 hub_install_cos.sh
```

5. 执行安装脚本，开始安装MW矿机程序。

安装为执行hub_install_cos.sh 脚本带‘矿机编号’参数，注意要指定的主板序列号对应。

这里的 1011 是示例，切记注意。

```
1 ./hub_install_cos.sh 1011
```

脚本执行过程如下，安装完成后需要重启一次矿机，正常会自动重启一次设备，若长时间重启不成功手动操作一次，确保设备重启完成。

```
1
2 root@mwfs-0001:~# wget http://mwfs.oss-cn-
shenzhen.aliyuncs.com/cos/client/hub/hub_install_cos.sh
3 --2020-04-18 01:42:21-- http://mwfs.oss-cn-
shenzhen.aliyuncs.com/cos/client/hub/hub_install_cos.sh
4 Resolving mwfs.oss-cn-shenzhen.aliyuncs.com (mwfs.oss-cn-shenzhen.aliyuncs.com)...
120.77.166.28
5 Connecting to mwfs.oss-cn-shenzhen.aliyuncs.com (mwfs.oss-cn-
shenzhen.aliyuncs.com)|120.77.166.28|:80... connected.
6 HTTP request sent, awaiting response... 200 OK
7 Length: 2484 (2.4K) [application/x-sh]
8 Saving to: 'hub_install_cos.sh'
9
10 hub_install_cos.sh                               100%
[=====
=====>]  2.43K  --.-KB/s    in 0s
11
12 2020-04-18 01:42:21 (165 MB/s) - 'hub_install_cos.sh' saved [2484/2484]
13
14 root@mwfs-0001:~# ll
15 total 44
16 drwx----- 6 root root 4096 Apr 18 01:42 ./
17 drwxr-xr-x 23 root root 4096 Apr 17 10:09 ../
18 -rw----- 1 root root  84 Apr 17 18:30 .bash_history
19 -rw-r--r-- 1 root root 3106 Apr  9 2018 .bashrc
20 -rw-r--r-- 1 root root 2484 Apr 16 02:53 hub_install_cos.sh
21 drwxr-xr-x 3 root root 4096 Apr 17 10:24 .hubSetting/
22 drwxr-xr-x 9 root root 4096 Apr 17 10:25 mwfs/
23 drwxr-xr-x 2 root root 4096 Apr 17 10:25 .mwfs/
24 -rw-r--r-- 1 root root 148 Aug 17 2015 .profile
25 drwx----- 2 root root 4096 Apr 17 10:11 .ssh/
26 root@mwfs-0001:~# chmod 667 hub_install_cos.sh
27 root@mwfs-0001:~# ./hub_install_cos.sh
28 you must input the client number as the parameter
29 root@mwfs-0001:~# ./hub_install_cos.sh 1011
30 install the jq command
31 Hit:1 http://archive.ubuntu.com/ubuntu bionic InRelease
32 Get:2 http://archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
33 Get:3 http://archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
34 Get:4 http://archive.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
```

```

35  Fetched 252 kB in 3s (79.1 kB/s)
36  Reading package lists... Done
37  Reading package lists... Done
38  Building dependency tree
39  Reading state information... Done
40  jq is already the newest version (1.5+dfsg-2).
41  0 upgraded, 0 newly installed, 0 to remove and 195 not upgraded.
42  Reading package lists... Done
43  Building dependency tree
44  Reading state information... Done
45  zip is already the newest version (3.0-11build1).
46  0 upgraded, 0 newly installed, 0 to remove and 195 not upgraded.
47  sudo: cd: command not found
48  download the install.sh from oss...
49      % Total      % Received % Xferd  Average Speed   Time    Time     Time  Current
50                                  Dload  Upload   Total   Spent    Left   Speed
51  100  3766  100  3766    0     0  47670      0  --:--:--  --:--:--  --:--:--  47670
52  download the hub config file[1000] from oss...
53      % Total      % Received % Xferd  Average Speed   Time    Time     Time  Current
54                                  Dload  Upload   Total   Spent    Left   Speed
55  100    44  100    44    0     0    916      0  --:--:--  --:--:--  --:--:--    916
56  download the mwfs.zip from oss...
57      % Total      % Received % Xferd  Average Speed   Time    Time     Time  Current
58                                  Dload  Upload   Total   Spent    Left   Speed
59  100 204M  100 204M    0     0 25.1M      0  0:00:08  0:00:08  --:--:-- 24.9M
60  clean un-necessary folders and files before install ...
61  unzip mwfs.zip...
62  replace mwfs/jre/LICENSE? [y]es, [n]o, [A]ll, [N]one, [r]ename: A
63  chmod x to shells...
64  api url is https://mw.run/sc/ssHardwareProduct
65  [ OK ] Current environment has been set to test
66  follow is your os infos
67  No LSB modules are available.
68  Distributor ID: Ubuntu
69  Description:    Ubuntu 18.04.2 LTS
70  Release:        18.04
71  Codename:       bionic
72  you can use the "yum install -y redhat-lsb" to install
73
74  check or rename hostname to MW-Client
75  check jq whether installed
76  Read the cpu serial no of the machine
77  Current machine isn't firefly board, use the dmidecode to get the serial number
78  [ OK ] Current machine's serial number is PM0000000000A0027
79  [ WARN ] Configuration file /root/.hubSetting/.tempCache/.sysCache already exists, don't re-
create it
80  [ OK ] Set the machine's configuration file /root/.hubSetting/.tempCache/.sysCache done
81  [INFO] read the factoryNum=1000, mwfsAccount=soul_1000@mw.run, diskCapacity=0 from
~/hub_info.txt
82      % Total      % Received % Xferd  Average Speed   Time    Time     Time  Current
83                                  Dload  Upload   Total   Spent    Left   Speed
84  100   428    0    50  100   378   142   1080  --:--:--  --:--:--  --:--:--  1222

```

```

85 [ OK ] Current serial number and owner information has been saved in MwMgr system
86
87 * * * * * /root/mwfs/MwfsNetDaemon.sh
88 [ OK ] cron task be set
89 copy init_mwfs_hub.sh to /etc/init.d/ and set it auto start
90 [ OK ] auto start be set
91 delete ~/mwfs.zip...
92
93 [ OK ] installation is finished
94 delete un-necessary files to clean the project...
95 [ TIP ] you can manually input command 'reboot' to restart or run /root/mwfs/start.sh to start
    the MW now!
96
97 clean un-necessary files and folders after the cos installation is successful ...
98 clean un-necessary files after the cos installation is successful ...
99 [ OK ] Client-1000 COS be installed and reboot the machine now!
100
101
102
103 Rebooting.
104

```

6. 检测安装，安装完成后查找端口是否启动：

```
1 lsof -i tcp:7216
```

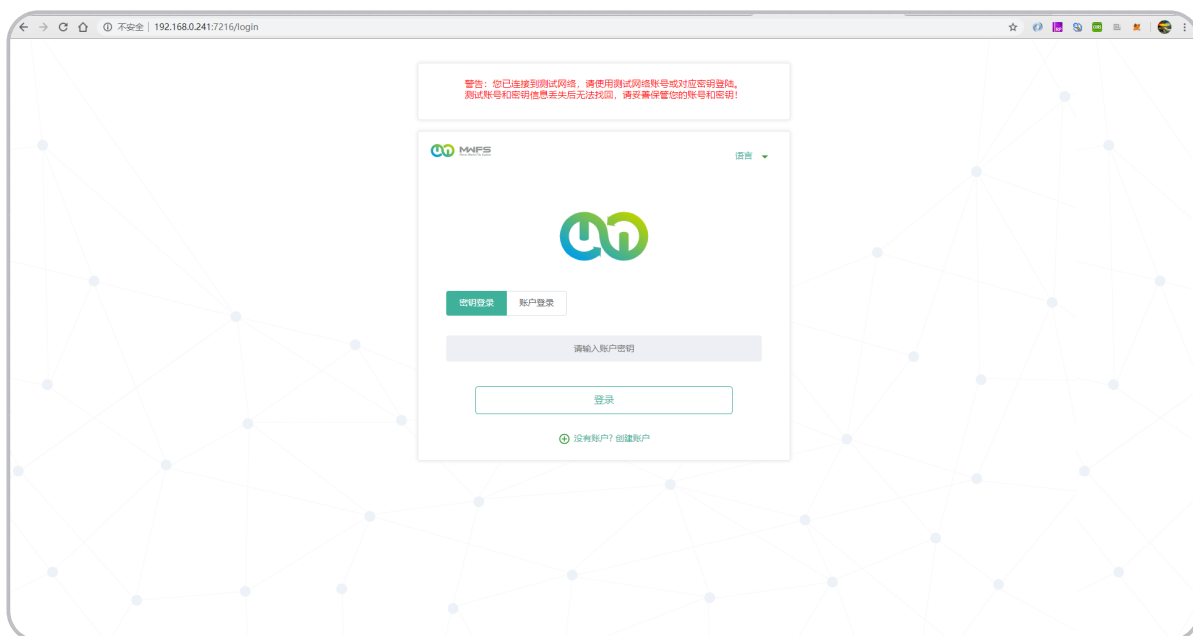
当端口启动则安装启动正常，类似如下：

```

1 root@mwfs-0001:~# lsof -i tcp:7216
2 COMMAND  PID USER  FD   TYPE DEVICE SIZE/OFF NODE NAME
3 java     31942 root   80u   IPv6 144909      0t0  TCP *:7216 (LISTEN)
4 java     31942 root   82u   IPv6 146286      0t0  TCP mwfs-0001:7216->_gateway:50554 (ESTABLISHED)
5 java     31942 root   95u   IPv6 144912      0t0  TCP mwfs-0001:7216->_gateway:50553 (ESTABLISHED)
6 java     31942 root  108u   IPv6 146287      0t0  TCP mwfs-0001:7216->_gateway:50561 (ESTABLISHED)
7 java     31942 root  110u   IPv6 146288      0t0  TCP mwfs-0001:7216->_gateway:50555 (ESTABLISHED)
8 java     31942 root  111u   IPv6 144046      0t0  TCP mwfs-0001:7216->_gateway:50562 (ESTABLISHED)
9 java     31942 root  112u   IPv6 144047      0t0  TCP mwfs-0001:7216->_gateway:50558 (ESTABLISHED)

```

7. 网络可访问范围内，可以访问 <http://ip:7216> <IP为矿机IP地址> 访问，正常能打开 MW矿机客户端 UI 界面。

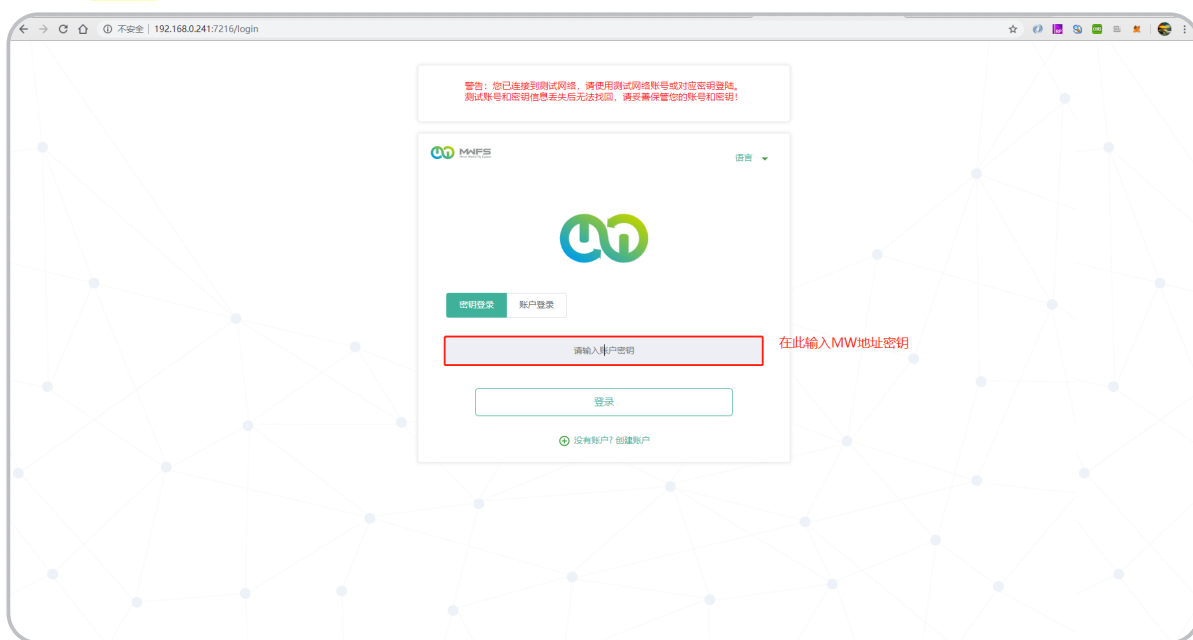


1.3 矿机绑定认证激活

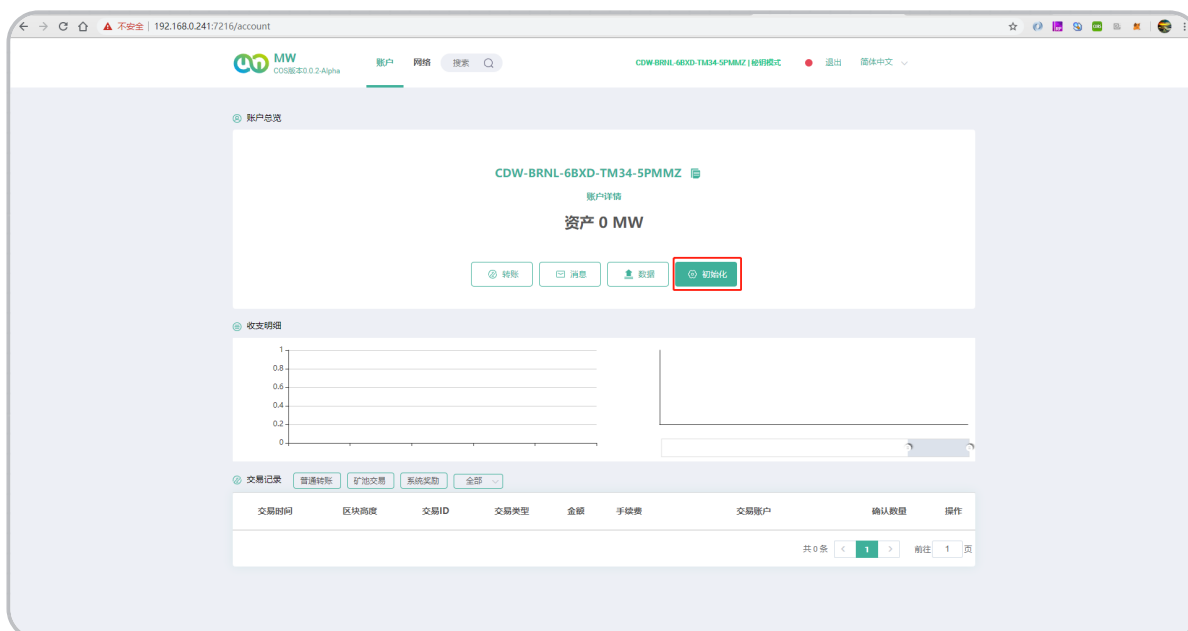
一个在 <http://mw.run:7216/login> 创建的 MW 私钥账户 只能绑定唯一一台矿机设备, 注意不要重复绑定;

在成功安装 MW 挖矿程序 和 MW 地址有大于等于133个MW后, 才能激活矿机, 且才能成功接入MW网络开启挖矿。

1. 打开安装成功的MW挖矿程序 UI: <http://ip:7216> <IP为矿机IP地址>; 打开地址后如 1.2 第7步截图;
2. 用一个未绑定的 MW 地址密钥 登录矿机终端, 登录成功后即绑定矿机设备完成;

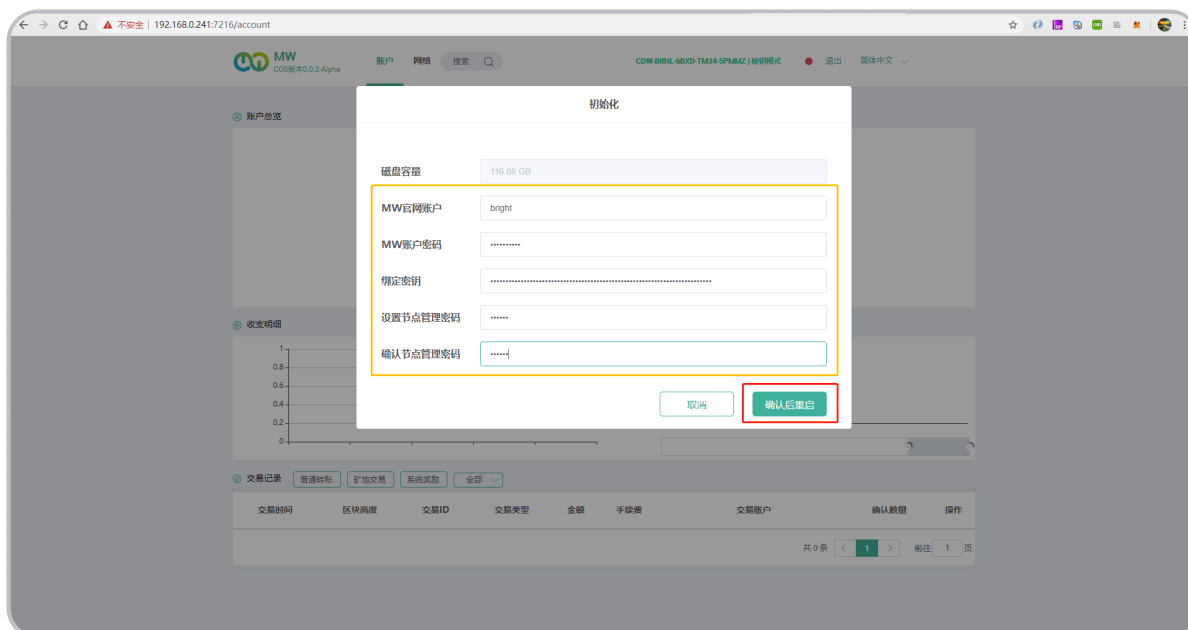


3. 登录成功后如下图, 点击‘初始化’按钮进入矿机认证激活页面:

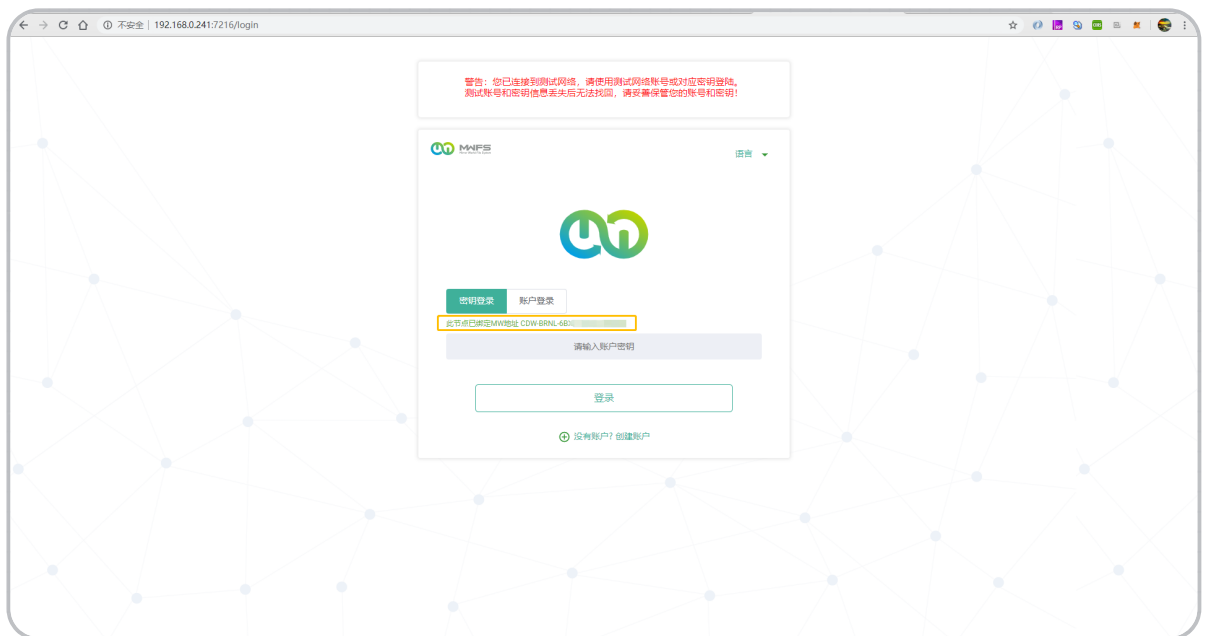


4. 在矿机认证激活页面，输入认证激活信息，然后点击‘确认后重启’完成激活：

#	参数名称	参数输入
1	MW官网账户	MW账号
2	MW账户密码	MW账户密码
3	绑定密钥	MW地址密钥：即当前矿机登录的 MW 地址密钥。
4	节点管理密码	设置一个绑定当前矿机设备、MW地址的‘管理密码’；这个密码后期设备解绑等重要操作时需要验证， 注意保存好‘节点管理密码’。



5. 触发‘确认后重启’后矿机会再次重启，等待重启完成后重新登录 <http://ip:7216/> <IP为矿机IP地址>，打开地址UI 会显示‘此节点已绑定MW地址 CDW-BRNL-6BXD-.....’，输入 MW地址密钥 登录矿机终端 UI；等待认证激活在MW网络上区块确认打包。

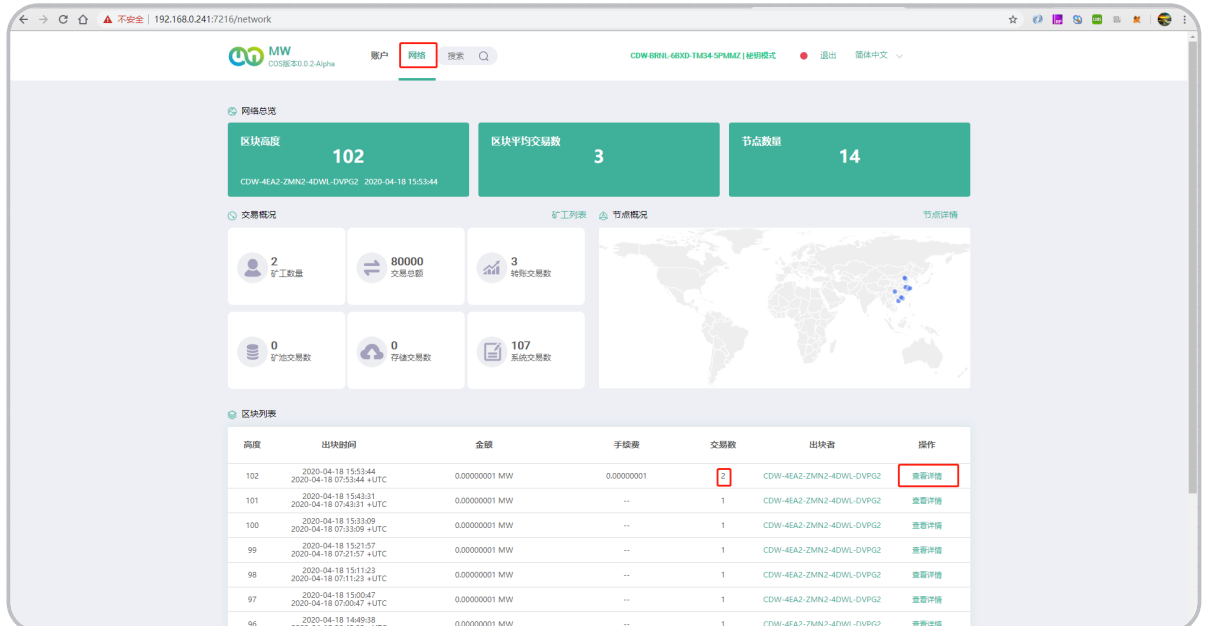


6. 查看‘认证激活’在MW网络区块打包情况，已认证矿机才能开始在MW网络挖矿，区块网络打包完成后自动开启挖矿。

矿机认证激活在MW网络上体现为‘PoC节点声明’，一般在激活操作后的下一个区块中（最长为一个出块间隔10分钟）。登录矿机终端 UI后，在 网络>区块列表 查找交易数大于1的区块详情，在区块详情中选择‘PoC’

选项卡，能查看到PoC节点声明信息，绑定地址存在 MW地址既网络确认成功。

下两图为查看PoC节点声明示例：



区块 - 7544688725784777170 | 区块高度 - 102

所有交易

区块详情

PoC

绑定地址	类型	IP	节点类型	生效高度/生效区块	交易
> CDW-BRNL-6BXD-TM34-5P MMZ	PoC节点声明	116.30.223.23	Soul节点	102 / 75446887257847771 70	8217169420581954223

0
矿池交易数

0
存储交易数

107
系统交易数