# User Manual of Miner Management Tool

# Pool Related

## Miner Information Scanning

Scan the miner by entering the IP range or importing the IP list.

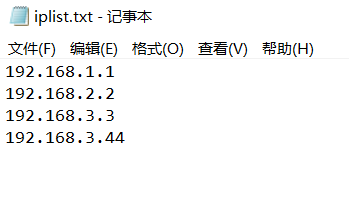
For example:

The IP segments can be in the formats of xxx.xxx or xxx.xxx.xxx. The corresponding starting IP and ending IP are in the formats of xxx or xxx.xxx. For instance:

IP segment: 192.168.1; starting IP:1, ending IP: 100. Click the Scan Miner button to automatically scan all miners with the IP range from 192.168.1.1 to 192.168.1.100.

IP segment: 10.0; starting IP:0.1, ending IP: 1.200. Click the Scan Miner button to automatically scan all miners with the IP range from 10.0.0.1 to 10.0.1.200.

The IP lists to be imported may in the file format of TXT with one IP a line, and CVS with the HEADER containing the “ip” column. After an IP list is imported, the miners will be scanned automatically.

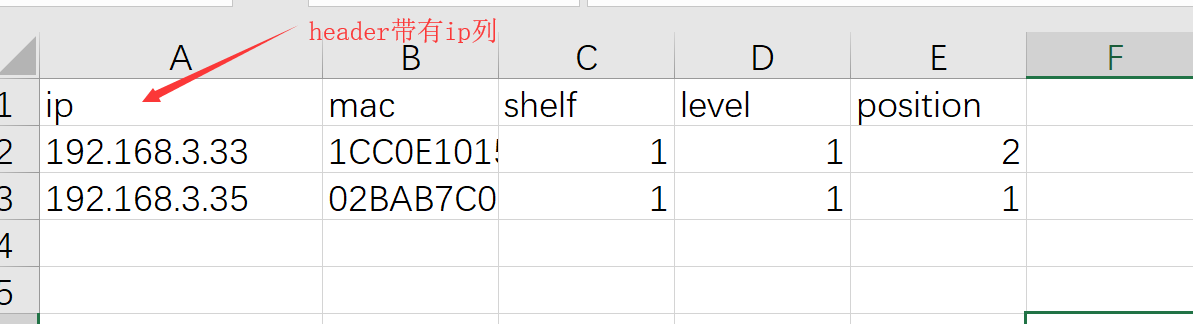


File (F) Edit (E) Format (O) View (V) Help (H)

Notebook

or

The header containing the IP column



The default scanning port is 4028. No revision is needed generally.

The scanning results can be ranked by IP or the number of computing boards, or screened by the number of computing boards or online status of miners.



screening by the number of computing boards

screening by online status

ranking

Total 1 Online 0

Screen Reset

Connection Denied

Succeeded

Operation Result

Status

Worker ID

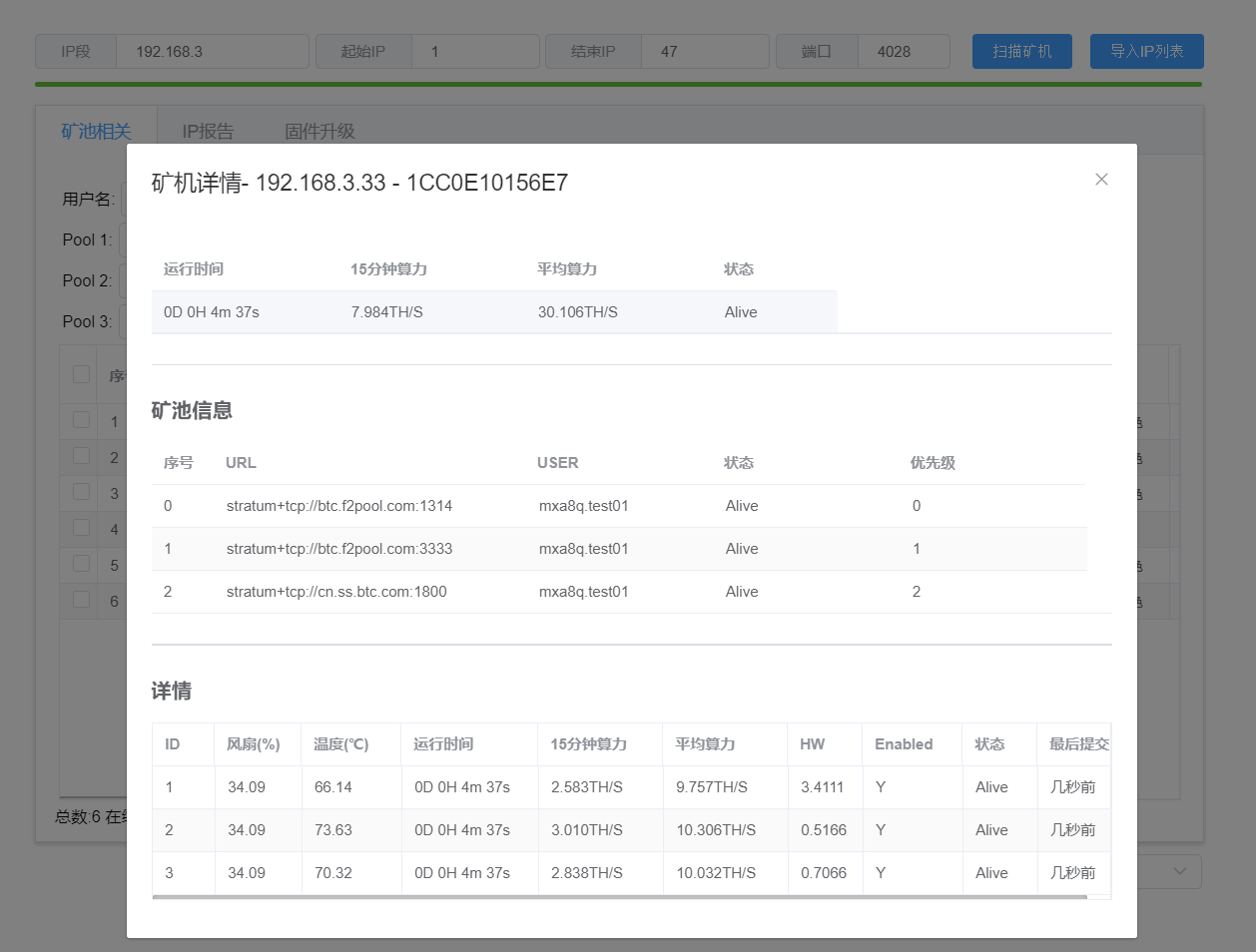
Number of Computing Boards

15min Hash Power

Run Time

Serial No.

Click the bottom miner list to view the detailed information of miners during or after scanning.



Seconds Ago

Seconds Ago

Seconds Ago

Last Submitted

Status

Average Hash Power

15min Hash Power

Run Time

Temperature (oC)

Fan (%)

Priority Level

Status

Serial No.

**Details**

**Pool Information**

Average Hash Power

15min Hash Power

Status

Run Time

Miner Details

Firmware Upgrade

Pool Related

IP Report

Import IP List

Scan Miner

Port

Ending IP

Starting IP

IP Segment

Double click the miner list line to open the web administration backend of the corresponding miner on the default browser.

## Batch Information Configuration of Mining Pools

For batch information configuration of mining pools, the miner information needs to be scanned first.

After the miner scanning is completed, fill in the configuration information and check the miners to be configured in the list below, click the Change Mining Pool button for mining pool information configuration.

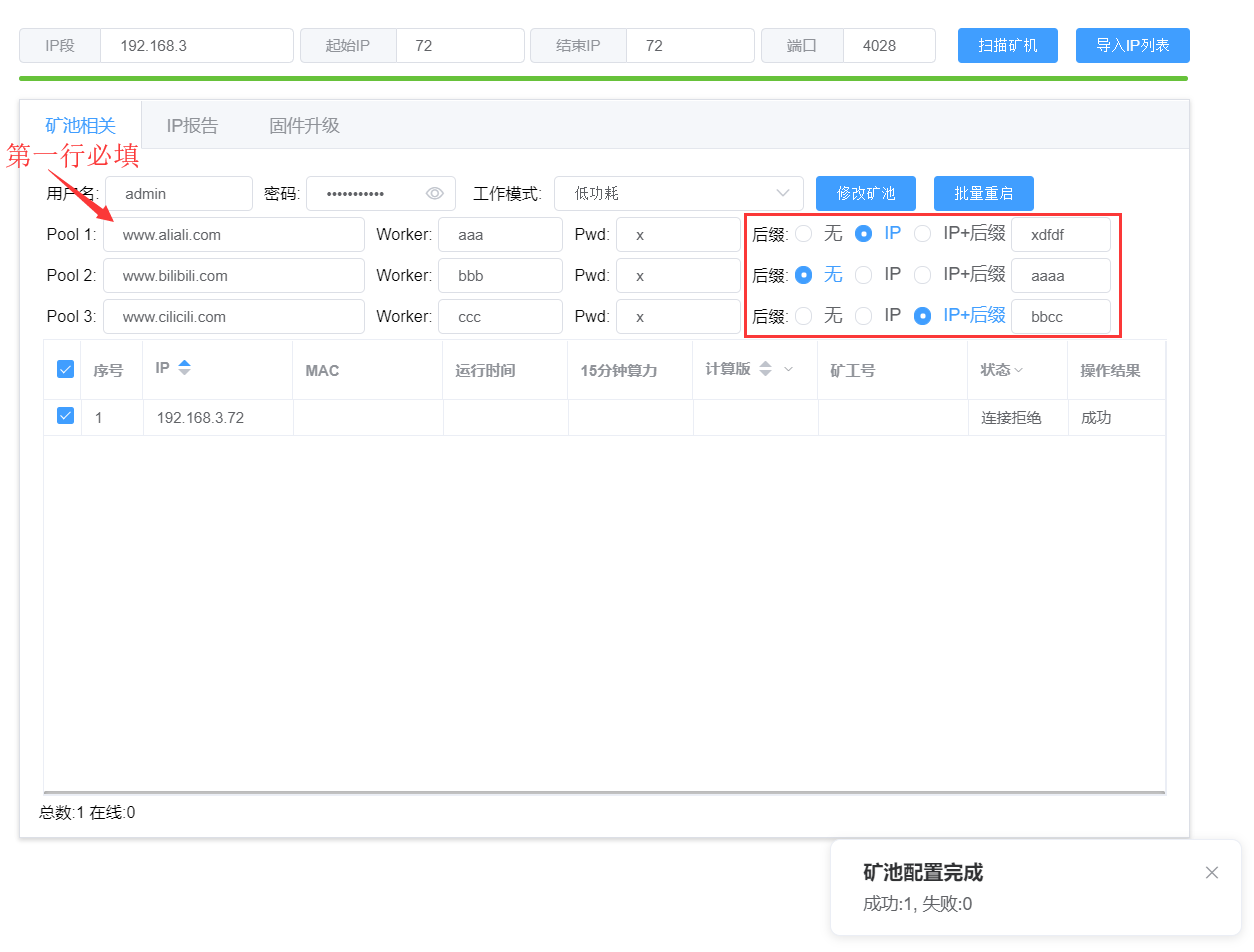
Among the configuration items, the user name, password, work mode (only valid to T1 miners) and the first line of mining pool information are required fields.

Three Worker ID options are available: no suffix, IP suffix, or IP+ user-defined suffix.

IP suffix: if the miner IP is 192.168.1.1 and the Worker is miner1, the actual Worker ID will be miner1.192x168x1x1.

IP+ user-defined suffix: if the miner IP is 192.168.1.1, the Worker miner1 and user-defined suffix abc, the actual Worker ID will be miner1.192x168x1x1xabc.

After the completion of configuration, the configuration results can be viewed by re-scanning.



The first line are required fields

**Pool Configuration Completed**

Succeeded: 1, Failed: 0

Total 1 Online 0

Number of Computing Boards

Succeeded

Connection Denied

Operation Result

Status

Worker ID

15min Hash Power

Run Time

Serial No.

IP+ Suffix

IP+ Suffix

IP+ Suffix

No

No

No

Suffix

Suffix

Suffix

Batch Reboot

Low Power Consumption

Work Mode

Password

User Name

Firmware Upgrade

IP Report

Change Pool

Import IP List

Port

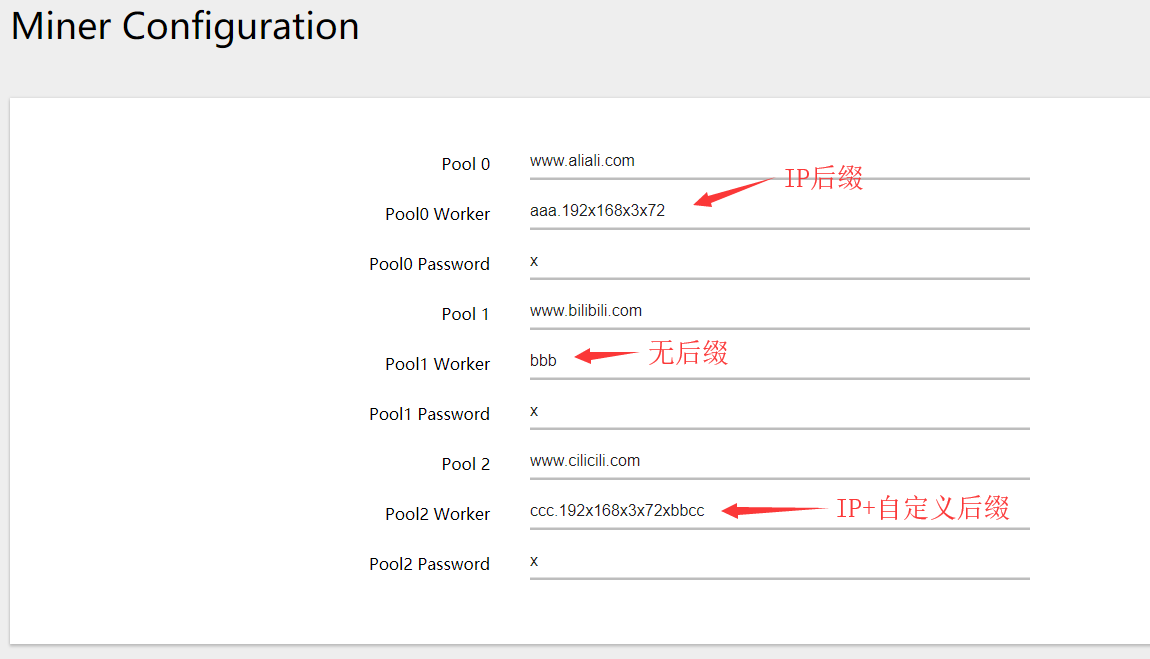
Ending IP

Starting IP

IP Segment

Pool Related

Scan Miner



IP+ user-defined suffix

no suffix

IP suffix

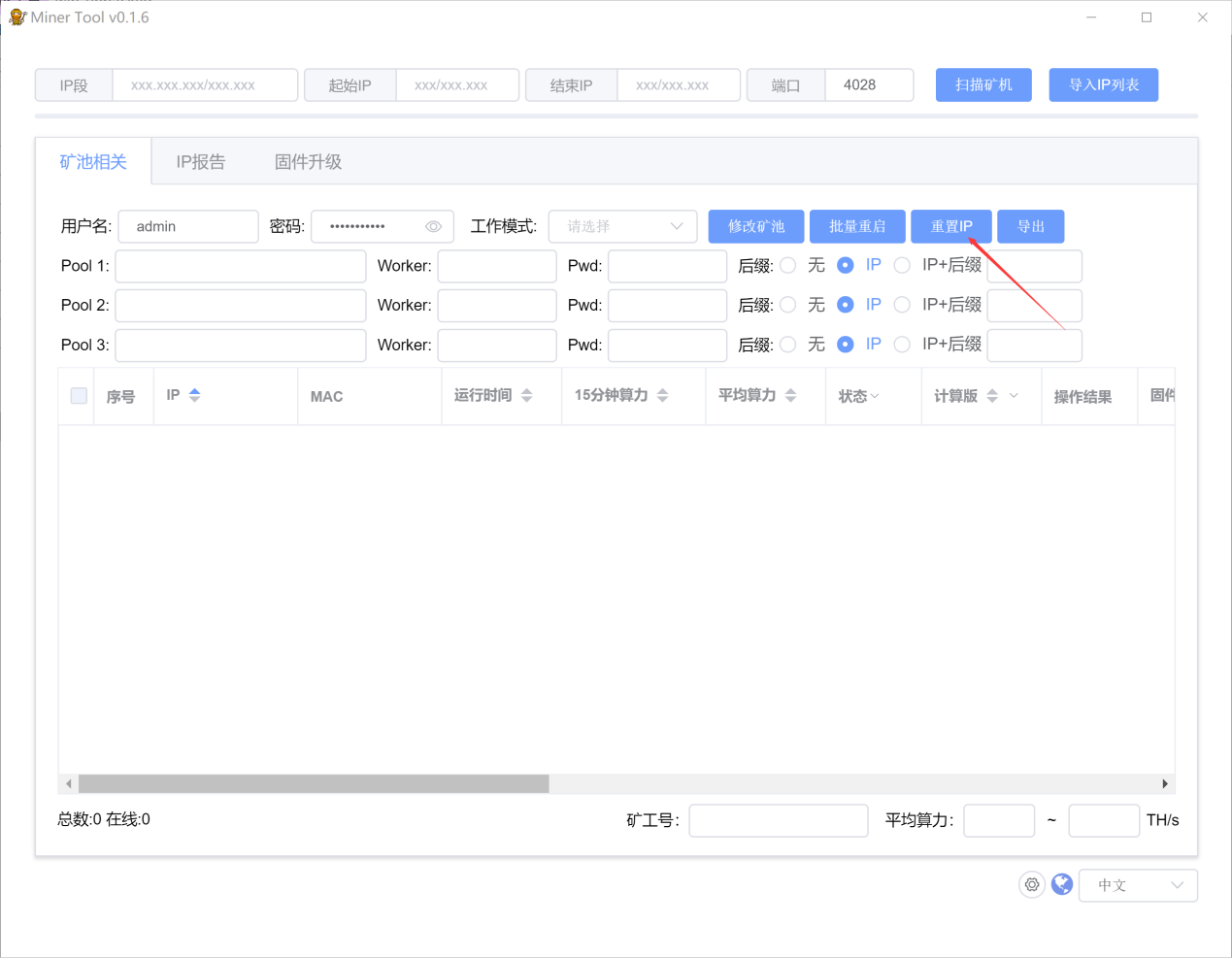
The operation status column in the miner list displays the configuration results (Succeeded/Failed).

## Batch Mining Reboot

After the miners are scanned, check the miners to be rebooted, click the Batch button to batch reboot the mining procedure of the miners.

## Batch Reset of IP Settings

After the miners are scanned and checked, click the Reset IP button to reset the IP address access of all selected miners as DHCP.



Chinese

Average Hash Power

Worker ID

Firmware

Password

Work Mode

Please select

Total 0 Online 0

Average Hash Power

Number of Computing Boards

Status

15min Hash Power

Run Time

No

Suffix

Suffix

No

No

Suffix

IP+ Suffix

IP+ Suffix

IP+ Suffix

Port

Ending IP

IP Segment

Firmware Upgrade

IP Report

Pool Related

User Name

Serial No.

Operation Result

Export

Reset IP

Change Pool

Batch Reboot

Scan Miner

Import IP List

Starting IP

## Miner Information Search

After the miners are scanned, the results can be searched at the bottom of the window by the Worker ID (fuzzy matching) and average hash power range.

# IP Report

## Position Registration

Check the Position Registration check box on the IP report page, enter the number of levels, number of positions, shelf number, Level No., Position No., initial position and step size. Click the Start button to start position registration.

Press the miner IP SET button for three seconds and the light will turn red, and the software will receive the miner IP report and automatically register the position. Upon receipt of a miner report, the software will calculate the next position by user input.

For example:

If the user enters 2 in number of levels, 3 in number of positions, 1 in shelf number, 2 in Level No., 2 in Position No., 1 in initial position and 1 in step size, the first miner position will be 1-2-2, the next position 1-2-3 and the next position after that 2-1-1, and so on. Click the Skip button to redirect to the next position.



Position Registration

Auto Configuration

Number of Levels

Number of Positions

Step Size

Position No.

Initial Position

IP Segment

First Miner Report

Second Miner Report

Third Miner Report

Next IP

Skip IP

Set IP

Operation Result

New IP

Position No.

Level No.

Shelf No.

Serial No.

Gateway

Subnet Mask

IP Rage

Password

User Name

Dedicated IP

Shelf No.

Level No.

Skip

Export

Delete

Stop

## Dedicated IP

Check the Dedicated IP check box on the IP report page to set a dedicated IP for the miner.

Enter the user name, password, subnet mask, gateway, DNS and next IP, click the Start button to start dedicated IP setting.

Press the miner IP SET button for three seconds and the light will turn red, and the software will receive the miner IP report. Click the Set IP button to set the next IP value as the IP address of the current miner. The IP value needs to be revised manually after each setting.



Manual Filling

Please select the number of levels

From left

From bottom

Please select the number of positions

Chinese

Succeeded

Position No.

New IP

Level No.

Shelf No.

Serial No.

Subnet Mask

User Name

Dedicated IP

Auto Configuration

Position Registration

Level No.

Number of Levels

Number of Positions

Position No.

Initial Position

Step Size

Shelf No.

IP Rage

IP Segment

Password

Gateway

Next IP

Skip IP

Set IP

Operation Result

Skip

Export

Delete

Stop

**Auto Configuration:**

Check the Auto Configuration check box and the software will generate the IP address list according to the IP segment and starting and ending IP range entered. Upon receipt of the miner IP report, the software will automatically set the miner IP. After setting, the next IP will automatically turn int the next IP address in the IP address list.

After the addresses in the IP address list are used up, the Auto Configuration check box can be ticked off. Check the Auto Configuration check box after re-entering the IP address range, and the software will automatically generate a new IP address list.



From bottom

From left

Please select the number of positions

Please select the number of levels

Succeeded

Set IP

Skip IP

Auto Increment

Next IP

Operation Result

New IP

Position No.

Level No.

Shelf No.

Serial No.

Gateway

Subnet Mask

IP Rage

IP Segment

Password

User Name

Auto Configuration

Dedicated IP

Position No.

Initial Position

Step Size

Shelf No.

Number of Positions

Level No.

Number of Levels

Skip

Export

Delete

Position Registration

Stop

Chinese

Succeeded

Click the Skip IP button to redirect to the next IP address in the list.

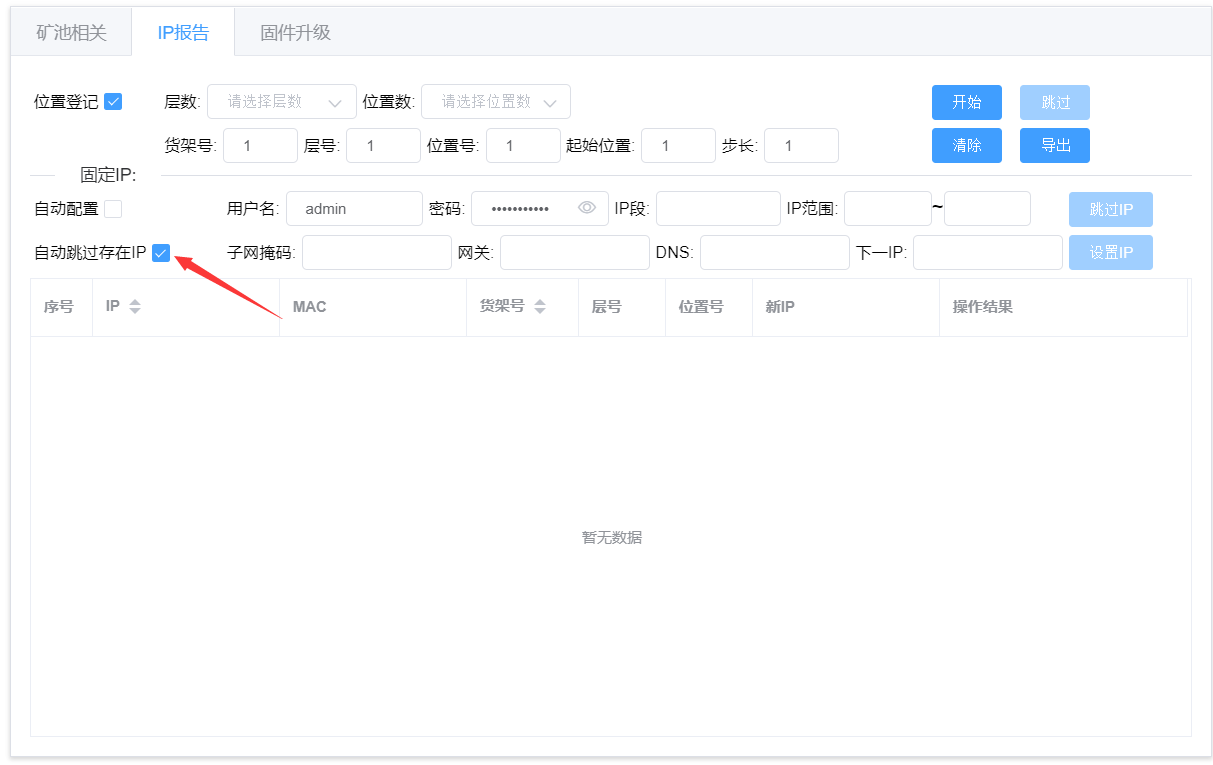
It takes about 30 seconds to set the IP address of a miner. The operation result (Succeeded/Failed) will be displayed in the list below after the completion of operation.

Position registration and dedicated IP operation can be conducted simultaneously.

Click the Export button after the completion of operation to export the list as a csv file.

\*Repeated reports from the same IP address within 1 minute will be ignored.

**IP Collision Detection:**



Please select the number of positions

Level No.

Please select the number of levels

Auto Skip the Existed IP Addresses

Firmware Upgrade

IP Report

Pool Related

No Data

Skip IP

Export

Skip

Delete

Stop

Password

IP Rage

IP Segment

Gateway

Subnet Mask

User Name

Auto Configuration

Number of Levels

Position No.

Level No.

Number of Positions

Initial Position

Step Size

Next IP

Operation Result

New IP

Position No.

Level No.

Shelf No.

Serial No.

Dedicated IP

Position Registration

Set IP

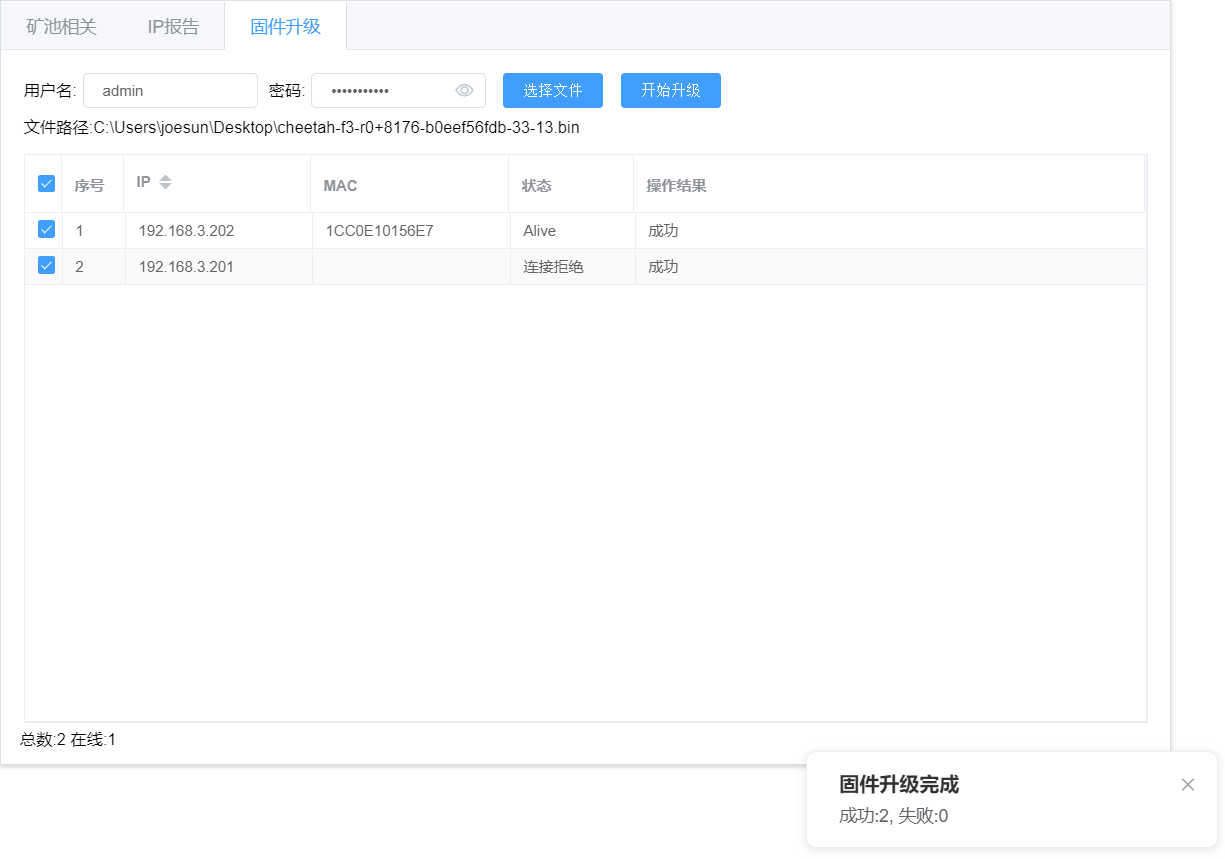
When a dedicated IP address is being set, the software will automatically check whether the IP address already exists.

Check the Auto Skip the Existed IP Addresses check box under the Auto Configuration mode, and the software will automatically skip the current conflicting IP and set the next IP in the IP address list.

If under the Manual mode or the Auto Skip the Existed IP Addresses check box is not checked, the software will give a popup prompt in case of IP collision. The user may select Proceed or Change the IP.

# Firmware Upgrade

Scan the miner information (refer to the Miner Information Scanning in Section I), check the miners to be upgraded, select the firmware file (.bin), enter the user name and password, click the Start Upgrade button to start upgrade. The operation result (Succeeded/Failed) will be displayed in the list below. After successful operation, the miner will automatically flush the firmware and reboot. It will take several minutes.



**Firmware Upgrade Completed**

Succeeded: 2 Failed: 0

Total 2 Online 1

Succeeded

User Name

Password

File Path

Connection Denied

Succeeded

Operation Result

Status

Serial No.

Select File

Firmware Upgrade

IP Report

Pool Related

Start Upgrade

# Software Setting



Number of Levels

Please select the number of positions

Please select the number of levels

Level No.

Chinese

Setting

No Data

Serial No.

Dedicated IP

Level No.

Number of Positions

Position No.

Initial Position

Step Size

Password

User Name

Auto Configuration

Subnet Mask

Gateway

IP Segment

IP Rage

Next IP

Shelf No.

Level No.

Position No.

New IP

Operation Result

Stop

Skip

Export

Delete

Skip IP

Set IP

Scan Miner

Ending IP

Starting IP

IP Segment

Port

Import IP List

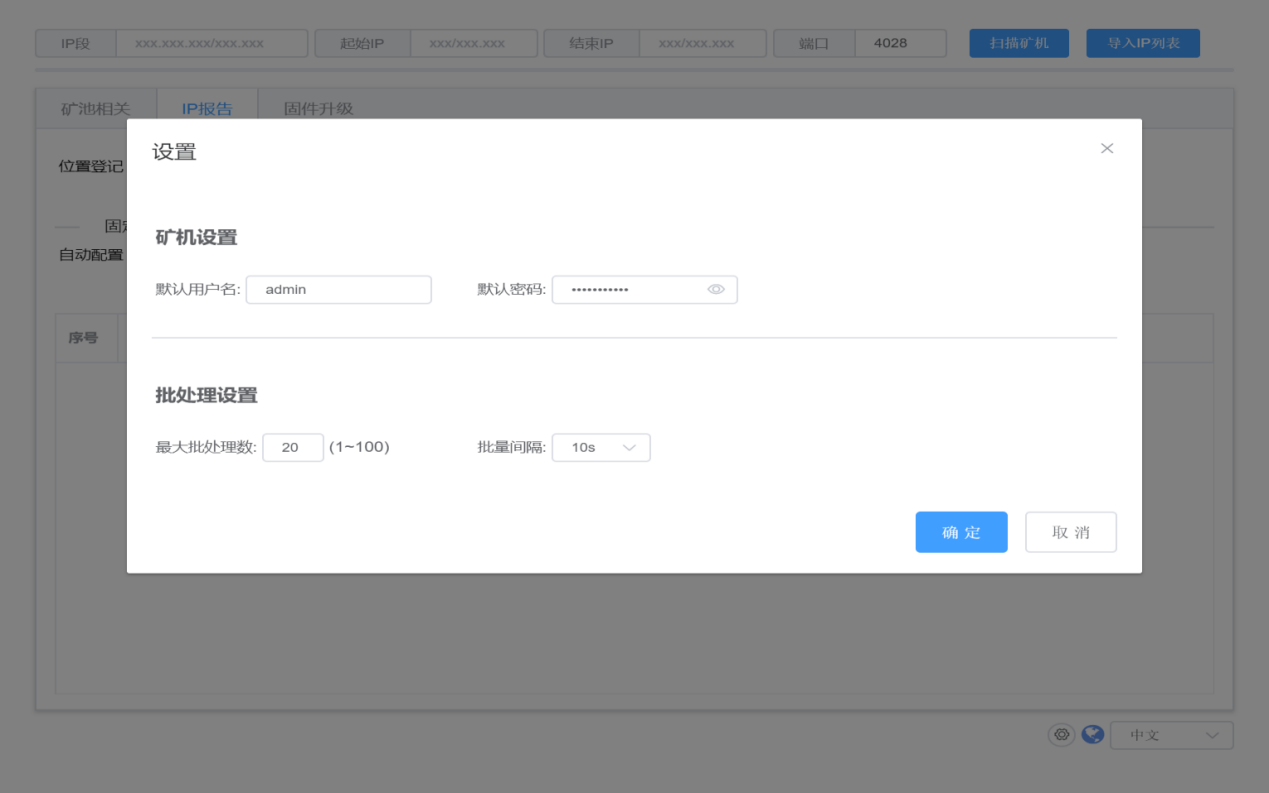
Firmware Upgrade

Position Registration

IP Report

Pool Related

Click the Setting icon in the bottom left corner for software parameters setting.



Default Password

Batch Interval

Maximum Batch Number

**Batch Setting**

Default User Name

**Miner Setting**

Setting

Cancel

OK

Notes on Software Parameters:

**Default User Name and Password:** the default user name and password in the miner web administration backend. If the user name and password are not entered in pool setting, mining reboot and firmware upgrade, the default values will be used.

**Maximum Batch Number:** the maximum number of miners to be operated at a time during batch operation. It’s suggested that the maximum batch number be set rationally as the case may be to prevent tripping due to power grid volatility in the reboot of excessive miners.

**Batch Interval:** the minimum interval time of internal partial execution during batch operation. It’s suggested that the minimum interval time be set rationally as the case may be to prevent tripping due to power grid volatility in the reboot of excessive miners resulting from small interval.