



Toolkit User Guide

2025/06

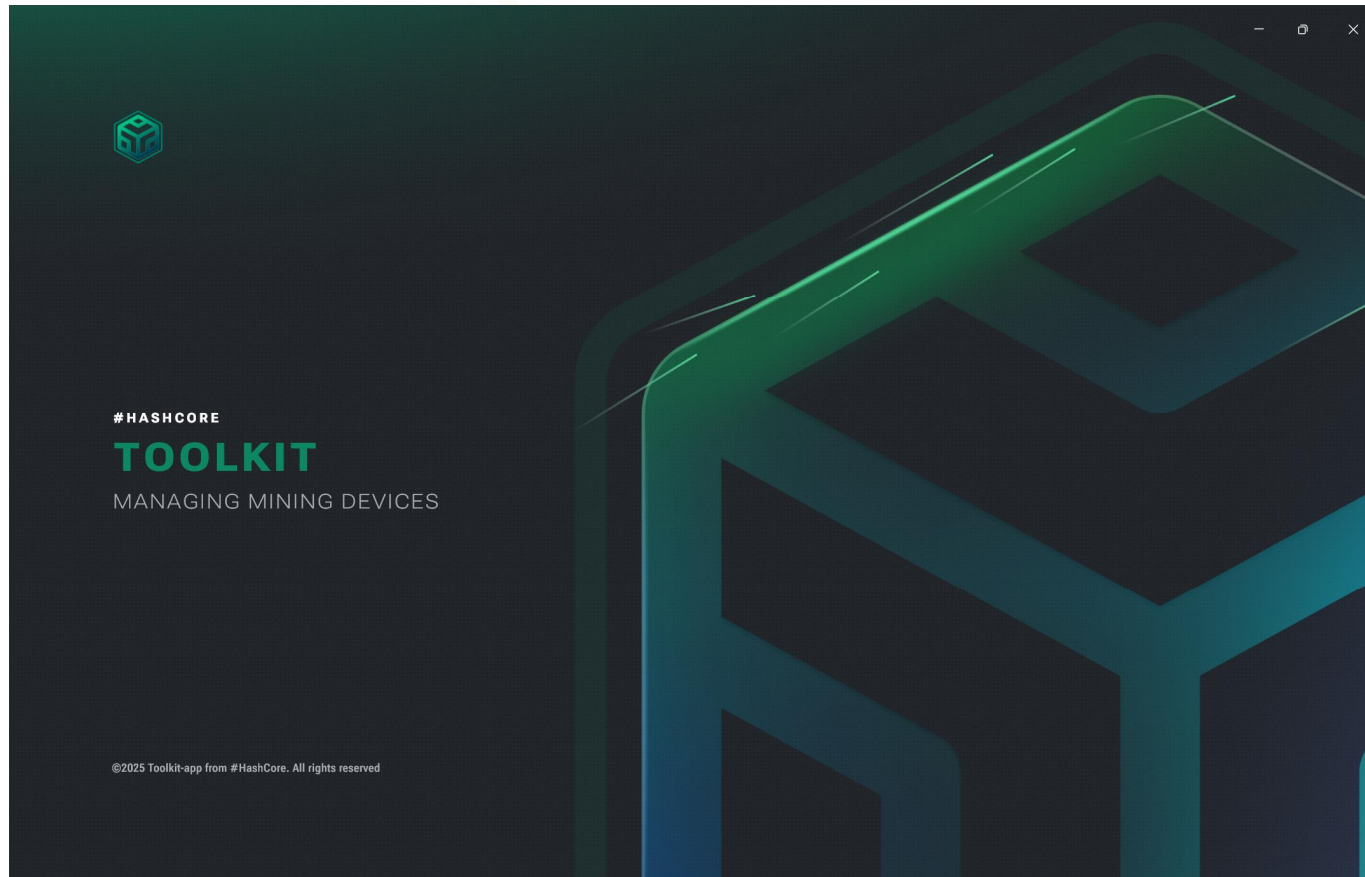
Byteon



Part One

Open Toolkit and Create Group

1. Open Toolkit

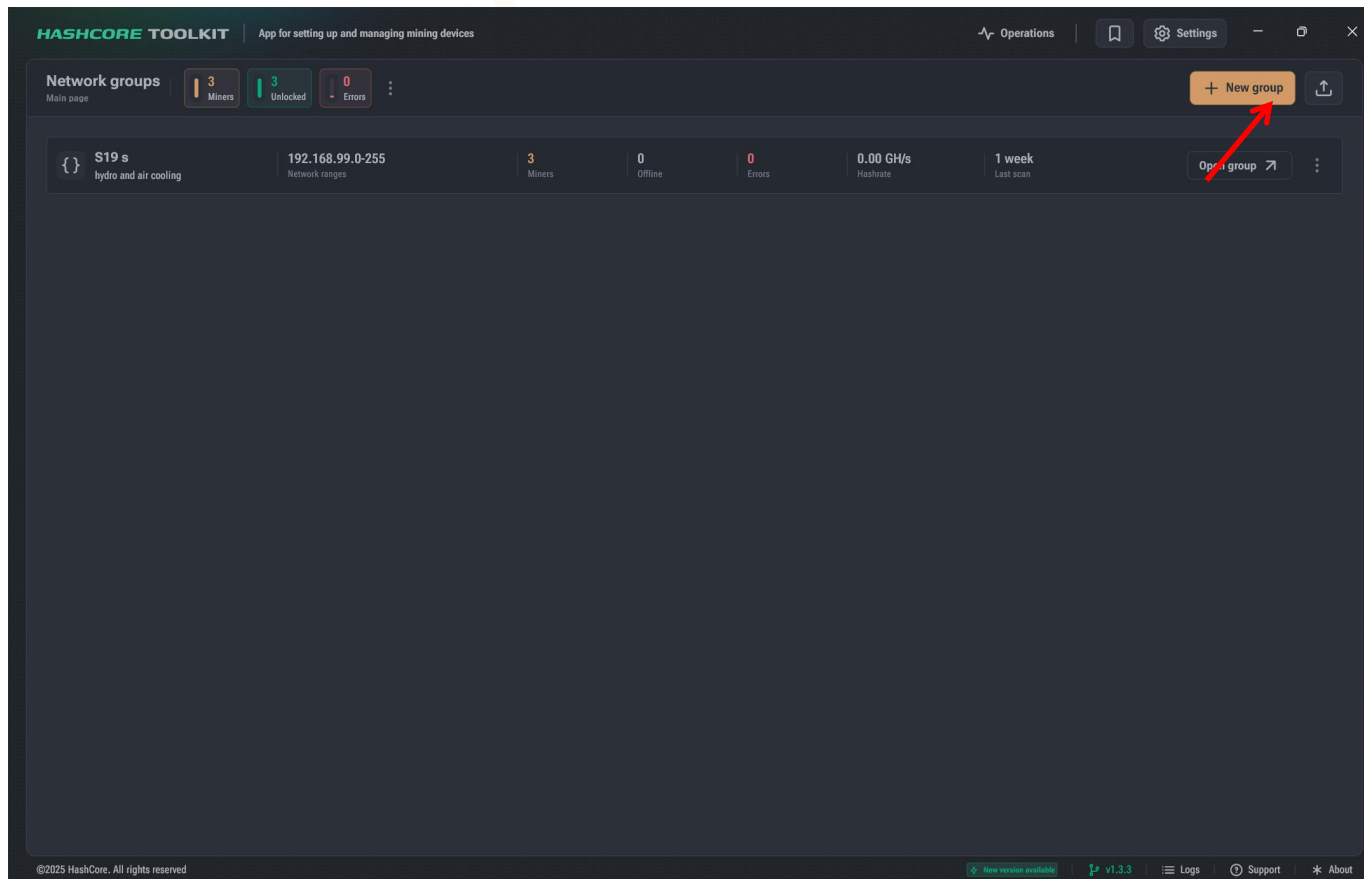


If there's latest version, you can update it.

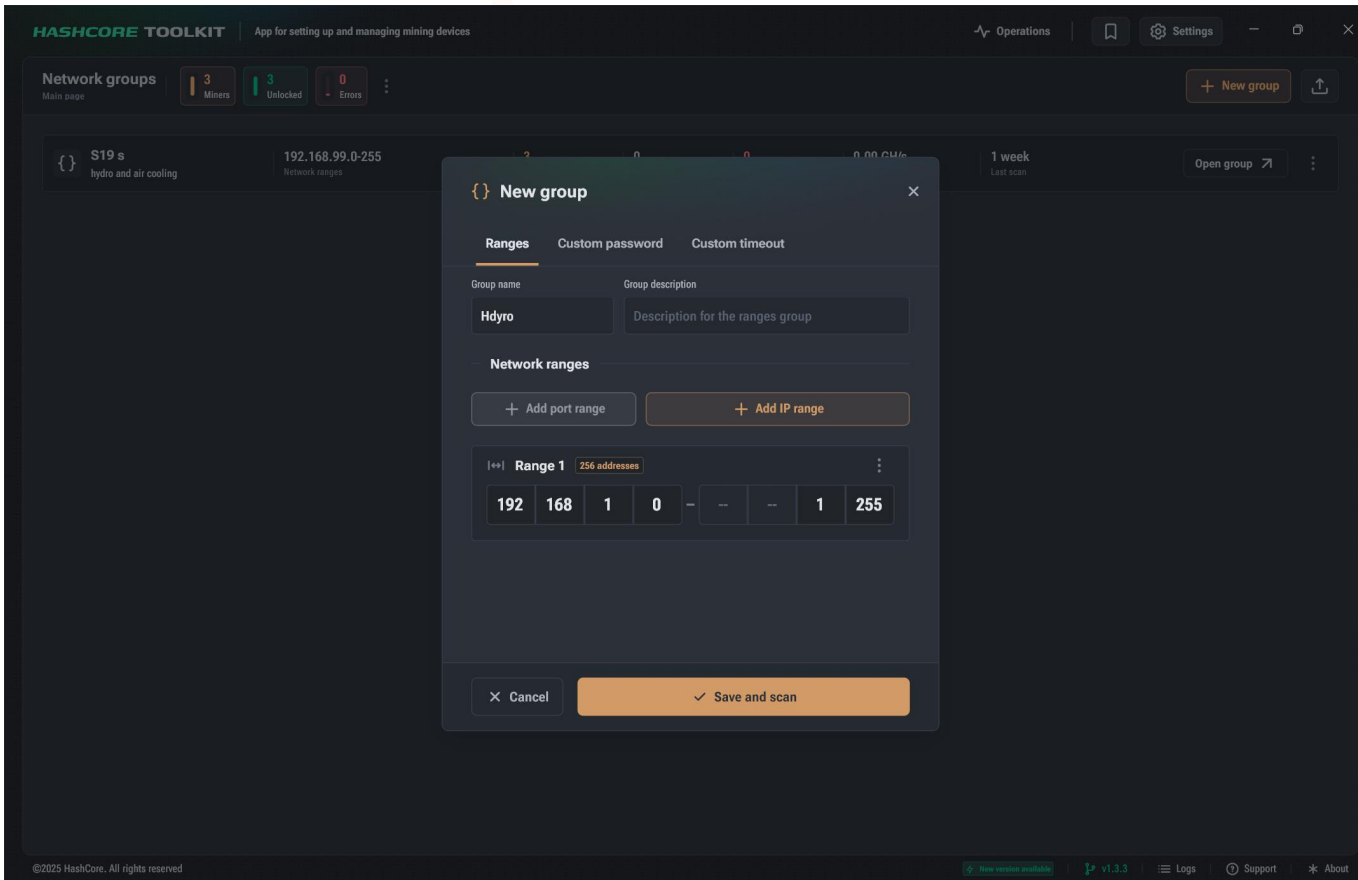
Make sure:

Download and save the byteon firmware in the desktop folder named 'byteon'

2. Create New group



2-1. Configure New group Ranges



HASHCORE TOOLKIT App for setting up and managing mining devices

Operations | Settings

Network groups: 3 Miners, 3 Unlocked, 0 Errors

New group

Ranges | Custom password | Custom timeout

Group name: **Hdyro** | Group description: Description for the ranges group

Network ranges

+ Add port range | + Add IP range

Range 1: 256 addresses

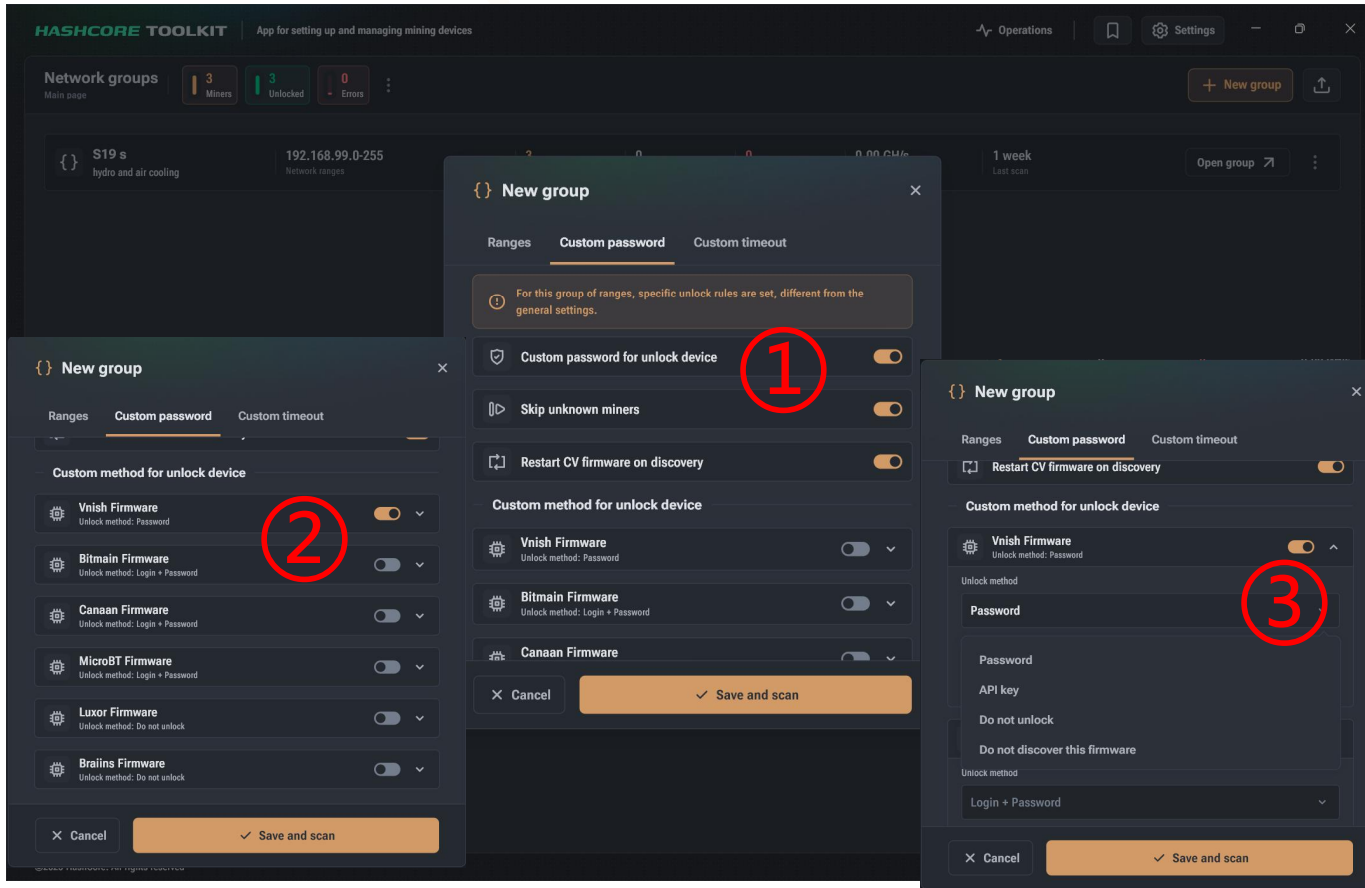
192.168.1.0 - 192.168.1.255

Cancel | Save and scan

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- Set Group name, Group description
- Add IP range of your network, you can add several IP ranges
- Save and scan

2-2. Set Custom password and method for unlock device

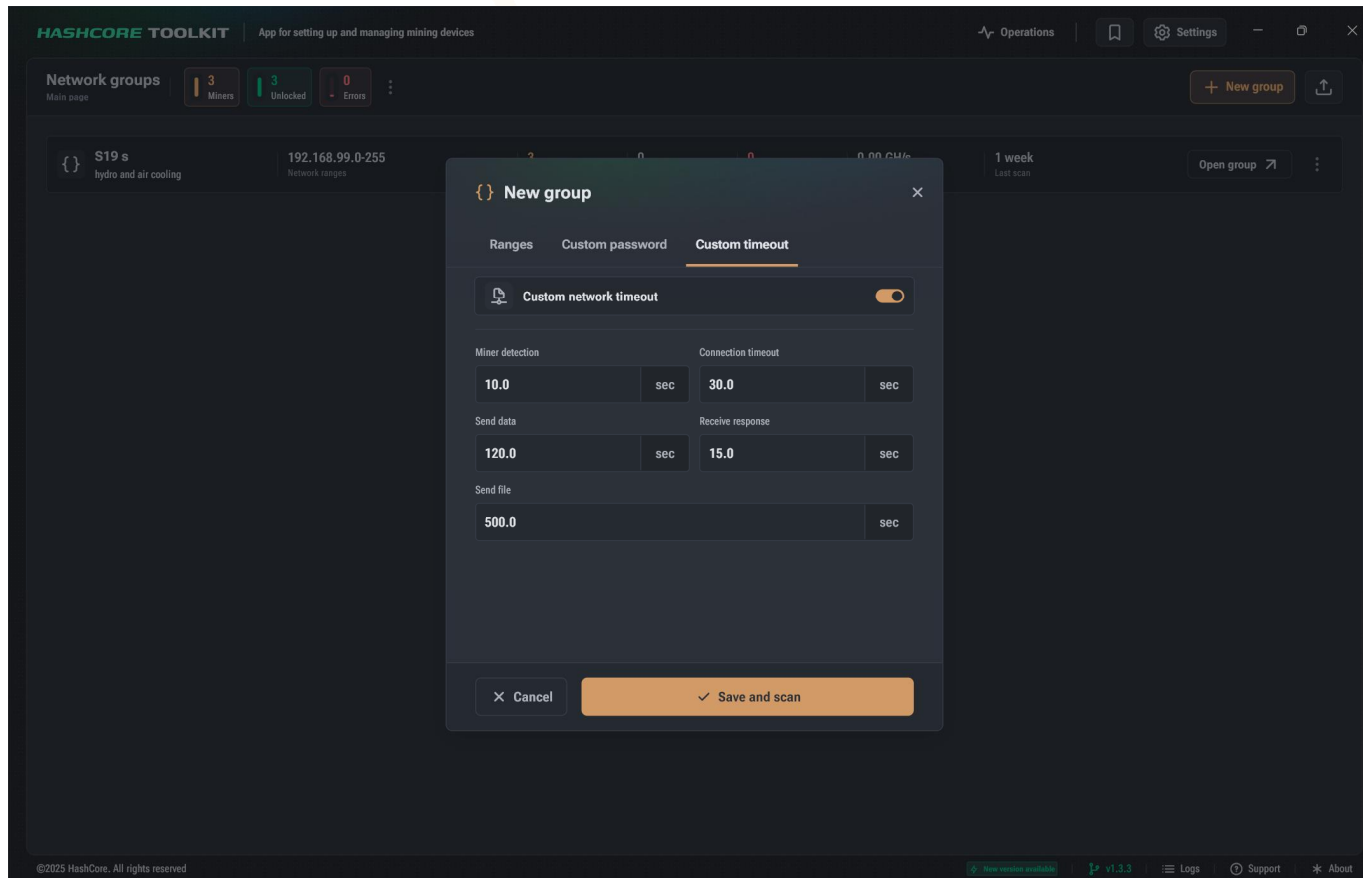


The screenshot displays the HASHCORE TOOLKIT interface, which is an application for setting up and managing mining devices. The main window shows a 'Network groups' section with a 'Main page' tab and a '+ New group' button. A 'New group' dialog box is open, showing the 'Custom password' tab. The dialog box has three steps highlighted by red circles:

- Step 1:** The 'Custom password for unlock device' toggle is turned on.
- Step 2:** The 'Custom method for unlock device' section is visible, showing a list of firmware options: Vnish Firmware, Bitmain Firmware, Canaan Firmware, MicroBT Firmware, Luxor Firmware, and Bralins Firmware. The 'Vnish Firmware' option is selected.
- Step 3:** The 'Custom method for unlock device' section is visible, showing the 'Unlock method' dropdown menu set to 'Password'.

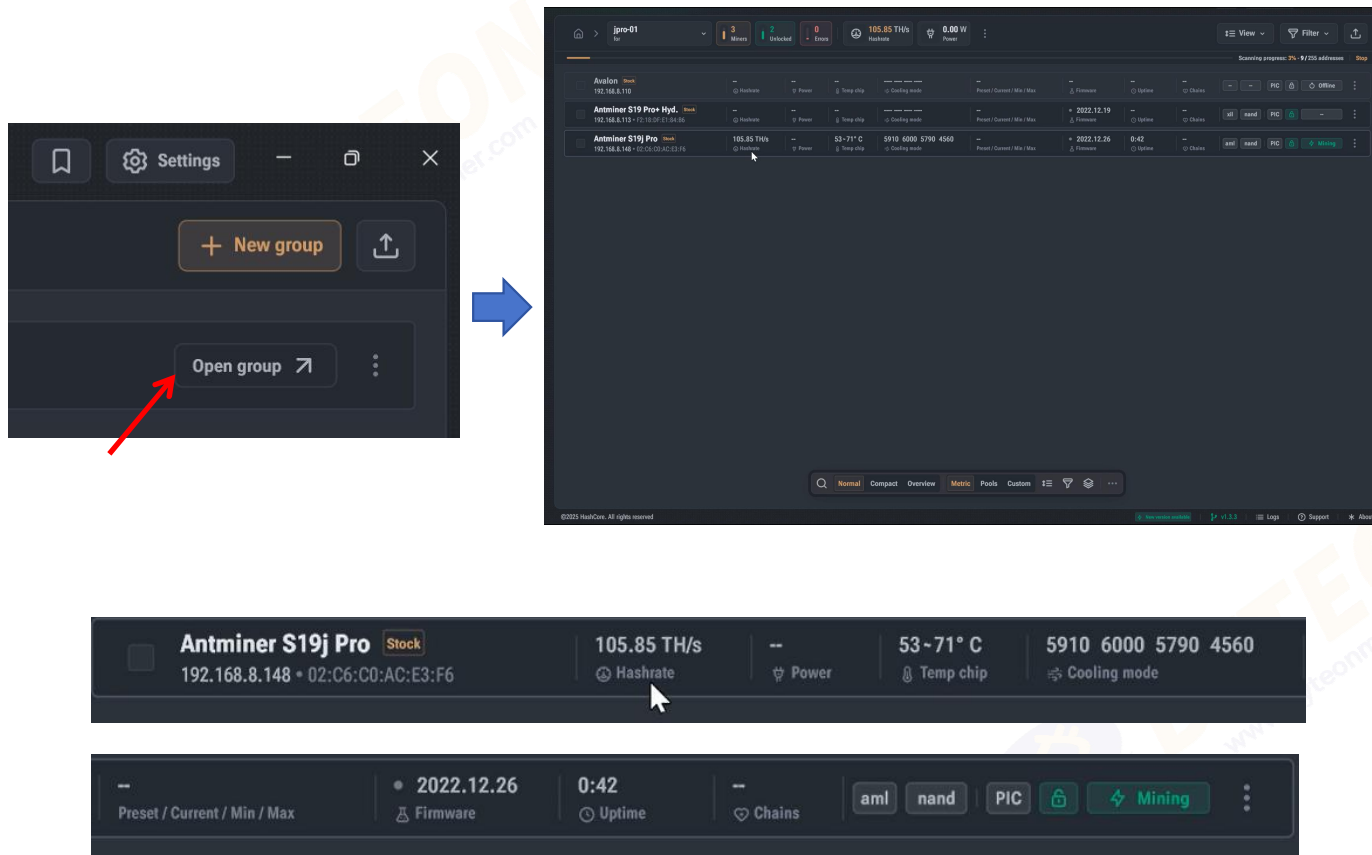
The dialog box also includes a 'Restart CV firmware on discovery' toggle and a 'Save and scan' button.

2-3. Set Custom timeout



After setting,
Save and scan

3. Open group and find miner status



The interface shows a 'Settings' window with a 'New group' button and an 'Open group' button. A red arrow points to the 'Open group' button. A blue arrow points from the 'Open group' button to the main miner status window.

The main window displays a list of miners. The first miner is 'Antminer S19j Pro Hyd.' with a hashrate of 105.85 TH/s. A mouse cursor is hovering over the '105.85 TH/s' value.

The detailed view of the 'Antminer S19j Pro' miner shows the following information:

- Model: Antminer S19j Pro (Stock)
- IP: 192.168.8.148 • 02:C6:C0:AC:E3:F6
- Hashrate: 105.85 TH/s
- Power: --
- Temp chip: 53~71° C
- Cooling mode: 5910 6000 5790 4560
- Firmware: 2022.12.26
- Uptime: 0:42
- Chains: aml, nand, PIC
- Miner status: Mining

- miner model,
- hashrate,
- temp chip,
- cooling mode,
- preset data,
- firmware version,
- uptime, chains status,
- control board types,
- miner working status.

Part Two

Install Byteon Firmware

First of all. Download byteon firmwares



Save the byteon firmwares in the folder named 'Byteon' on the desktop

C:\Users\HUAWEI\Desktop\Byteon					在 Byteon 中搜索	
名称	日期	类型	大小	标记		
byteon-s19pro-plus-hydro-xil-nand-v1.2.6-rc5-install.tar.gz	2025/8/8 11:42	WinRAR 压缩文件	12,739 KB			
byteon-s19pro-plus-hydro-xil-nand-v1.2.6-rc5-update.tar.gz	2025/8/8 11:43	WinRAR 压缩文件	12,744 KB			
byteon-s19pro-xil-nand-v1.2.6-rc5-install.tar.gz	2025/8/8 19:11	WinRAR 压缩文件	12,738 KB			
byteon-s19-xil-nand-v1.2.6-rc5-install.tar.gz	2025/8/8 13:04	WinRAR 压缩文件	12,734 KB			

4 个项目



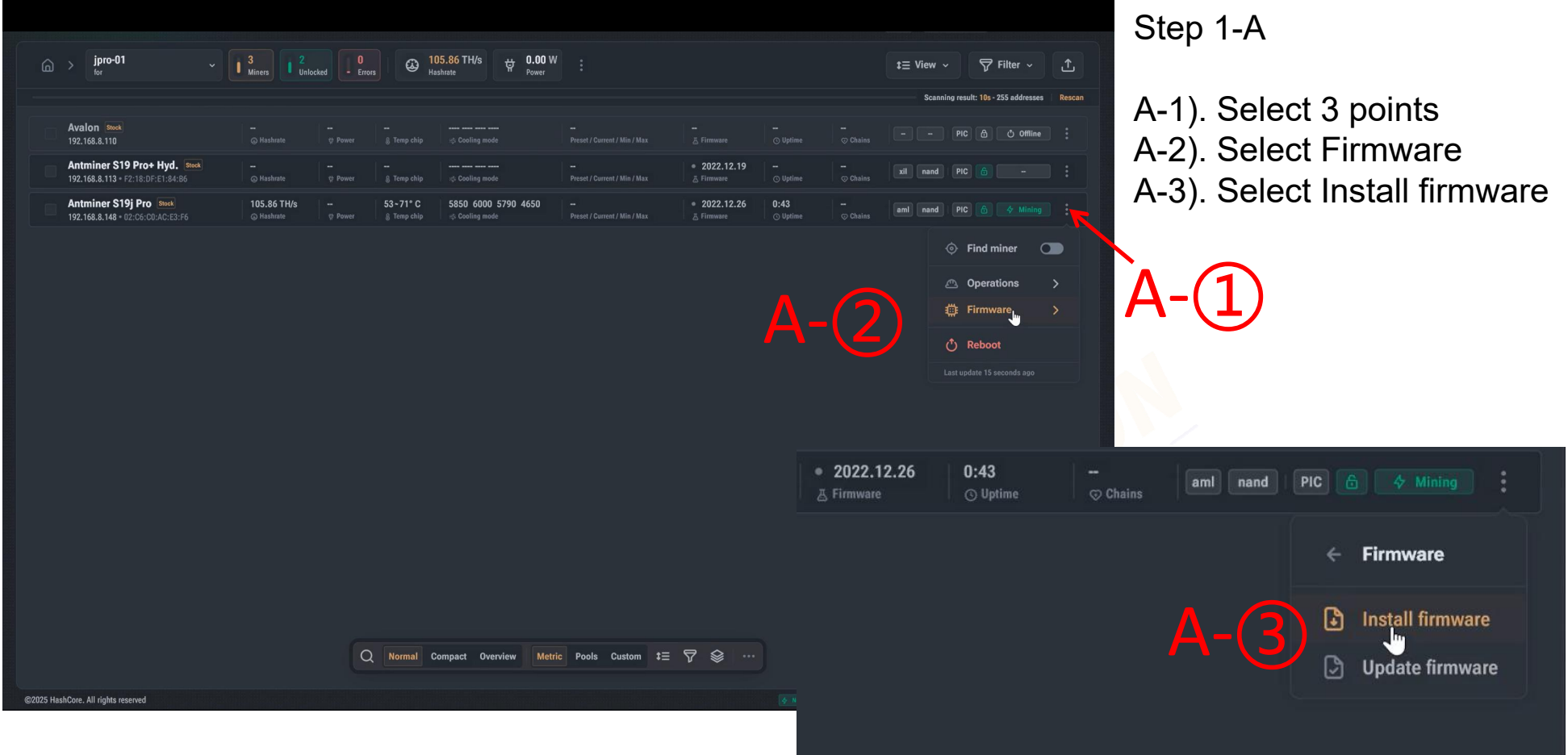
Step 1-A. Install Byteon firmware for One Miner

Step 1-A

A-1). Select 3 points

A-2). Select Firmware

A-3). Select Install firmware



The screenshot displays the Byteon miner management dashboard. At the top, a summary bar shows 3 miners, 2 unlocked, 0 errors, and a hash rate of 105.86 TH/s. Below this, a table lists three miners: Avalon, Antminer S19 Pro+ Hyd., and Antminer S19j Pro. The Antminer S19j Pro is selected, and its details are shown in a sidebar. In the sidebar, the 'Firmware' option is highlighted with a red circle and labeled 'A-2'. A red arrow points from the 'Firmware' option to the 'Install firmware' button in the 'Firmware' dropdown menu, which is also labeled 'A-3'. The 'Mining' button is highlighted with a red circle and labeled 'A-1'.

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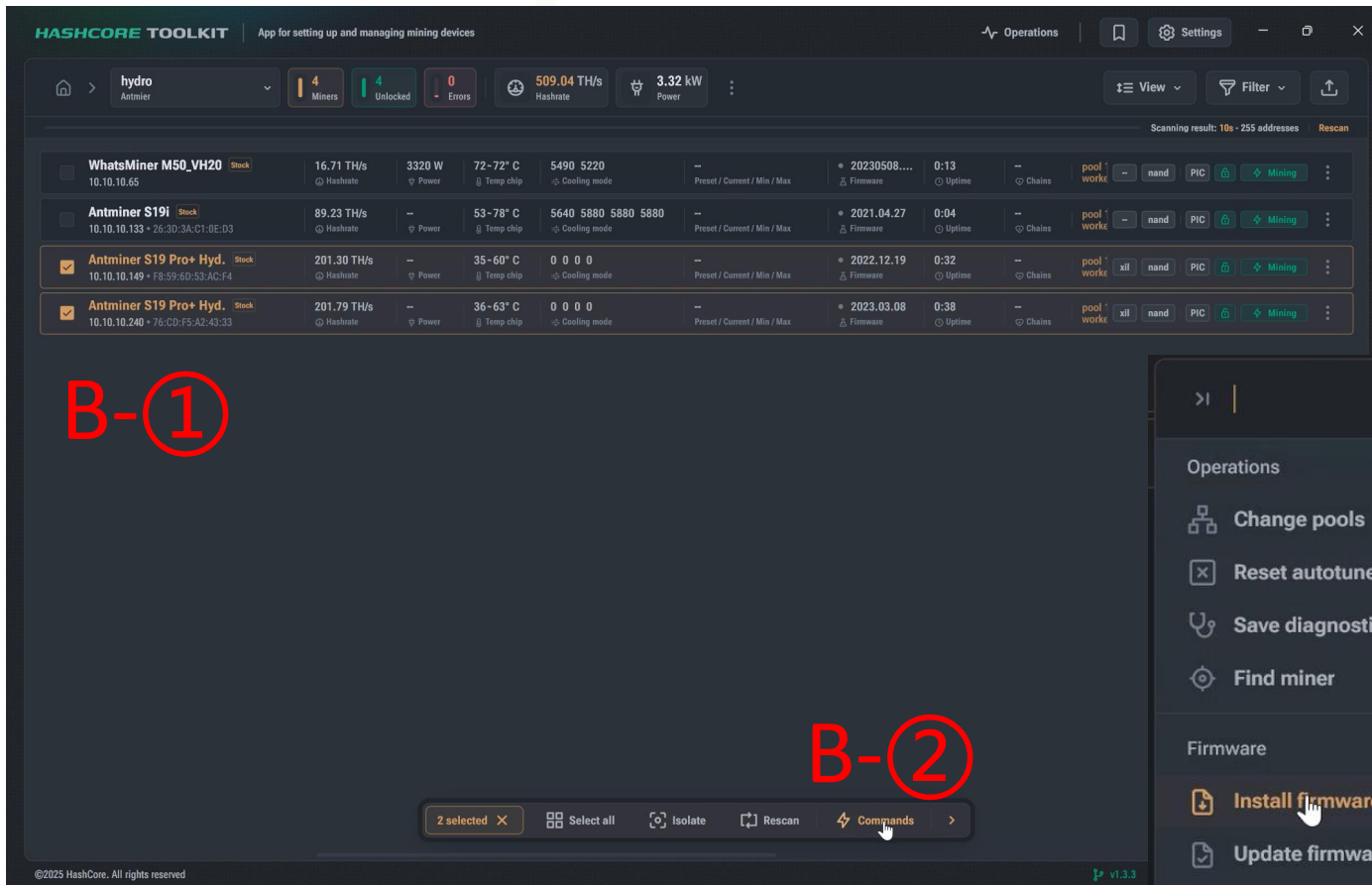
Step 1-B. Install Byteon firmware for Multiple Miners

Step 1-B

B-1). Select miners

B-2). Click Commands

B-3). Select Install firmware



HASHCORE TOOLKIT | App for setting up and managing mining devices

Operations | Settings | Filter | View | Filter | View | Filter | View

Scanning result: 10s - 255 addresses | Rescan

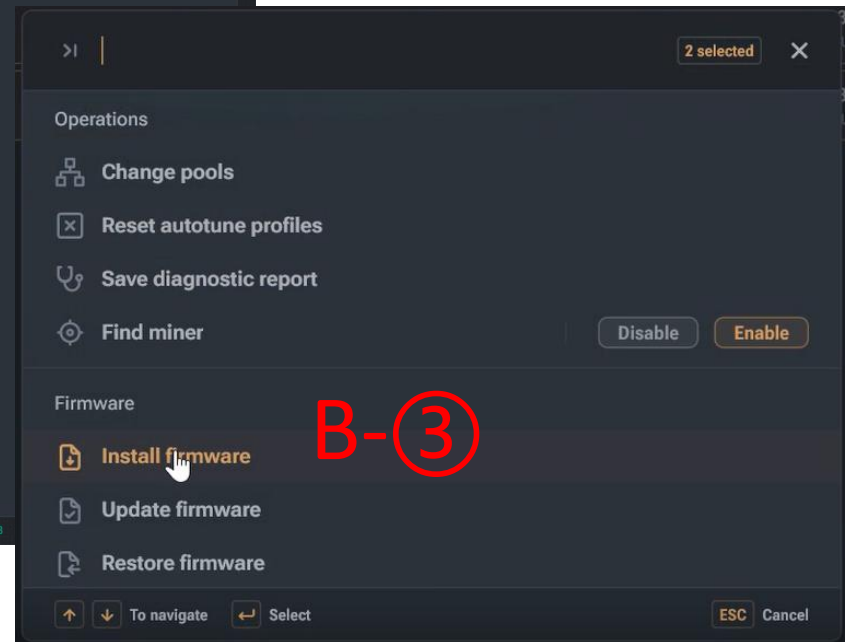
Miner	Hashrate	Power	Temp chip	Cooling mode	Presets / Current / Min / Max	Firmware	Uptime	Chains	Pool	Work	NAND	PIC	6	Mining	
WhatsMiner M50_VH20 Stock 10.10.10.65	16.71 TH/s	3320 W	72-72° C	5490 5220	--	20230508....	0:13	--	pool	work	nand	PIC	6	Mining	
Antminer S19i Stock 10.10.10.133 • 26:30:3A:C1:0E:D3	89.23 TH/s	--	53-78° C	5640 5880 5880 5880	--	2021.04.27	0:04	--	pool	work	nand	PIC	6	Mining	
Antminer S19 Pro+ Hyd. Stock 10.10.10.149 • F8:59:6D:53:AC:F4	201.30 TH/s	--	35-60° C	0 0 0 0	--	2022.12.19	0:32	--	pool	work	xli	nand	PIC	6	Mining
Antminer S19 Pro+ Hyd. Stock 10.10.10.240 • 76:CD:F5:A2:43:33	201.79 TH/s	--	36-63° C	0 0 0 0	--	2023.03.08	0:38	--	pool	work	xli	nand	PIC	6	Mining

2 selected X Select all Isolate Rescan Commands >

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B-①

B-②



2 selected X

Operations

- Change pools
- Reset autotune profiles
- Save diagnostic report
- Find miner Disable Enable

Firmware

- Install firmware**
- Update firmware
- Restore firmware

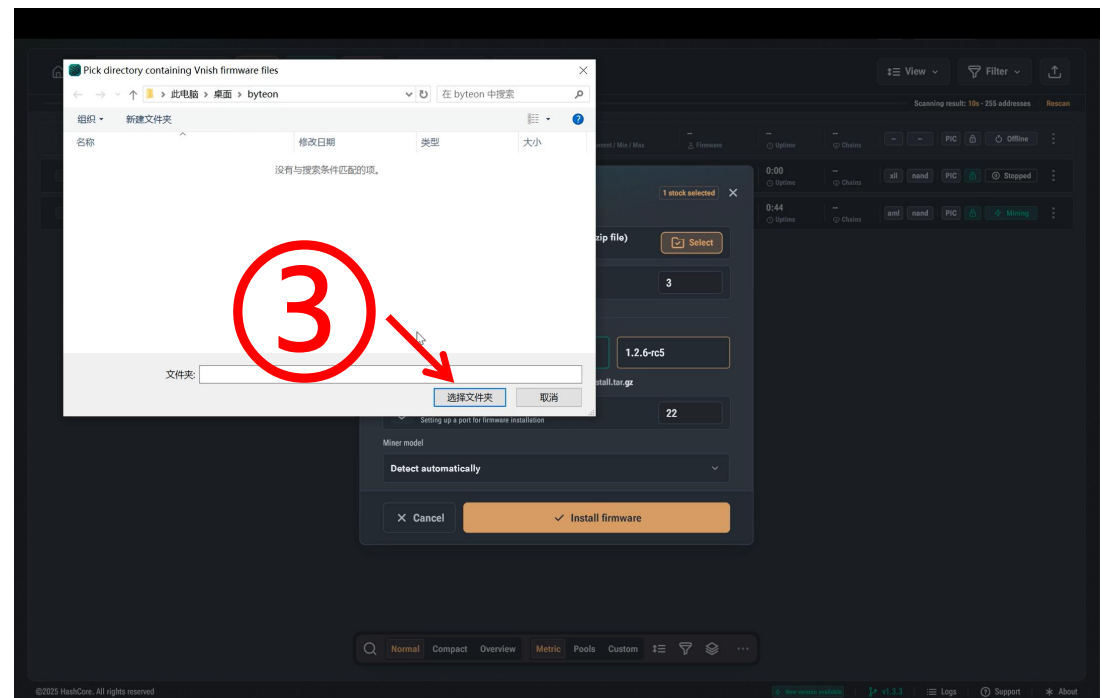
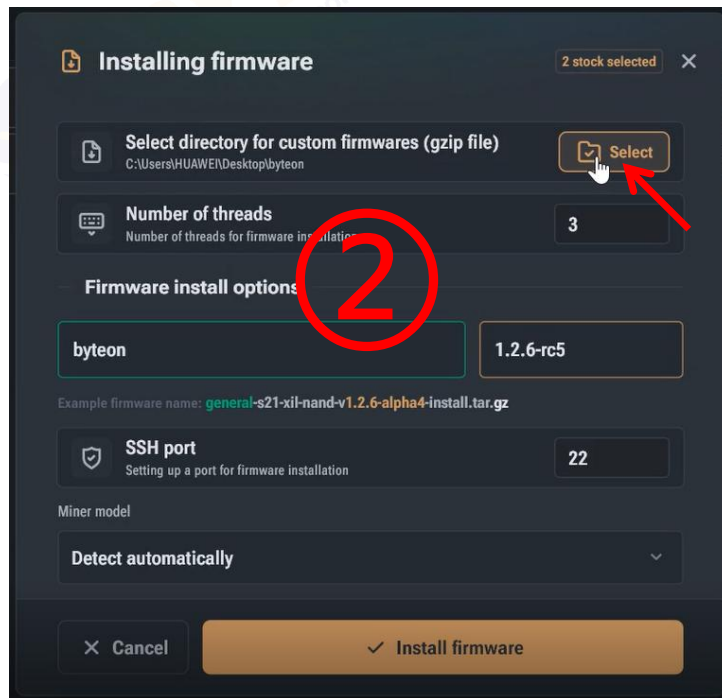
↑ ↓ To navigate ← Select ESC Cancel

B-③

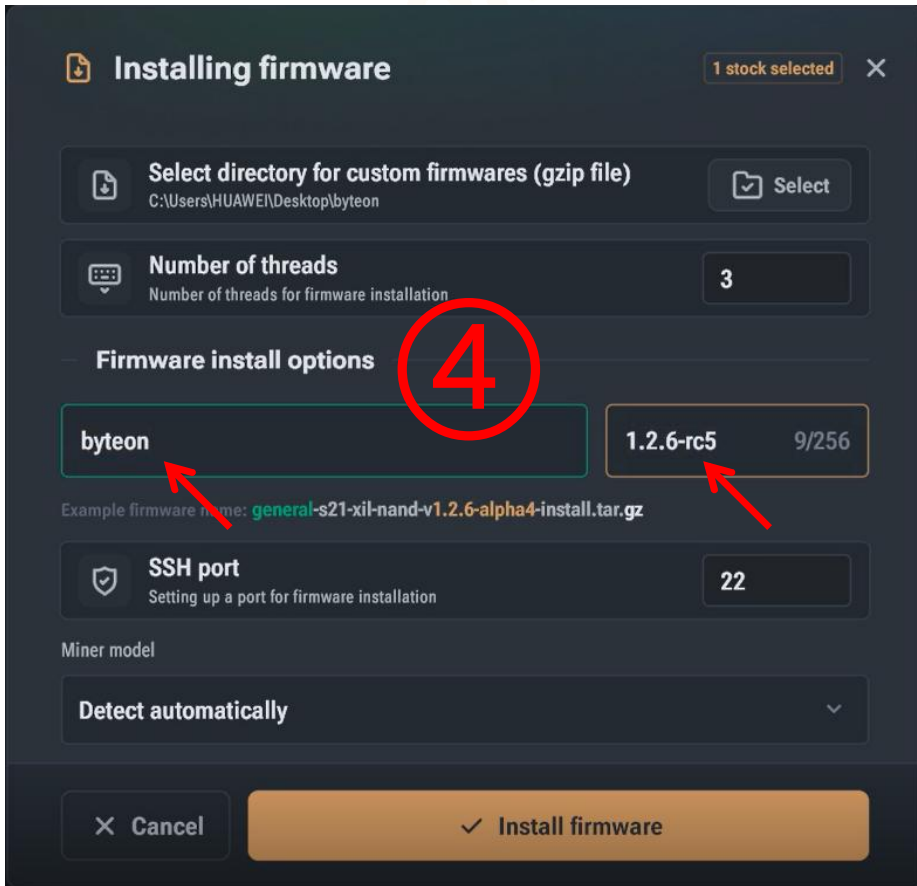
Step 2- Click 'Select' to open folder

Step 3- Open 'byteon' folder where the install fw is.

* there's no file displayed, it's normal



Step 4- Fill in the fw name 'byteon' and the version that matches the fw you downloaded.



Installing firmware 1 stock selected X

Select directory for custom firmwares (gzip file)
C:\Users\HUAWEI\Desktop\byteon Select

Number of threads
Number of threads for firmware installation 3

Firmware install options

byteon 1.2.6-rc5 9/256

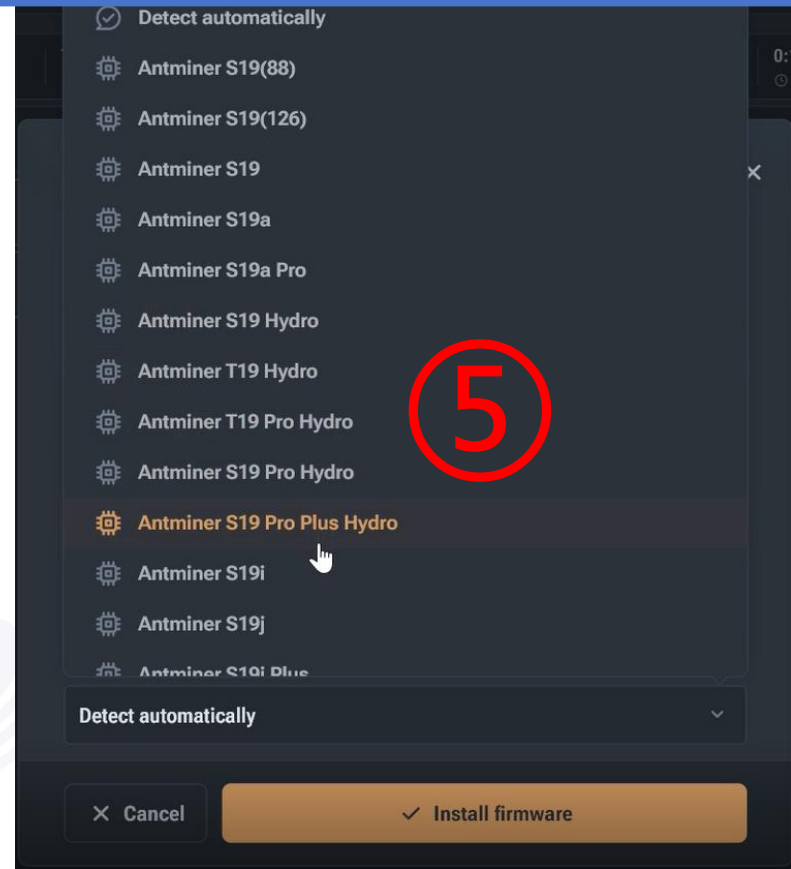
Example firmware name: general-s21-xil-nand-v1.2.6-alpha4-install.tar.gz

SSH port
Setting up a port for firmware installation 22

Miner model
Detect automatically

X Cancel ✓ Install firmware

Step 5- Select miner model
*If there is no required model, detect automatically'



Detect automatically

- Antminer S19(88)
- Antminer S19(126)
- Antminer S19
- Antminer S19a
- Antminer S19a Pro
- Antminer S19 Hydro
- Antminer T19 Hydro
- Antminer T19 Pro Hydro
- Antminer S19 Pro Hydro
- Antminer S19 Pro Plus Hydro**
- Antminer S19i
- Antminer S19j
- Antminer S19i Plus

Detect automatically

X Cancel ✓ Install firmware

Step 6-Select 'Install firmware'

Installing firmware 2 stock selected X

Select directory for custom firmwares (gzip file)
C:\Users\HUAWEI\Desktop\Byteon

Number of threads
Number of threads for firmware installation

Firmware install options

byteon 1.2.6-rc5

Example firmware name: **general-s21-xil-nand-v1.2.6-alpha4-install.tar.gz**

SSH port
Setting up a port for firmware installation

Miner model
Antminer S19 Pro Plus Hydro

X Cancel

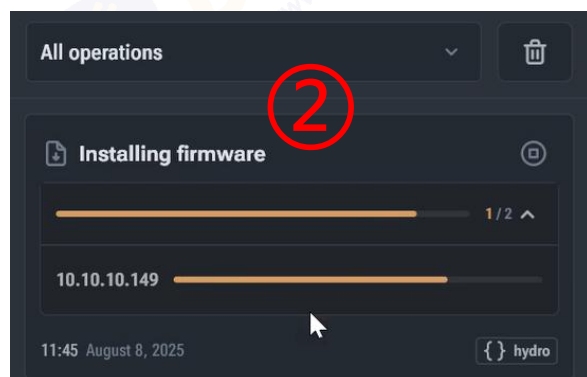
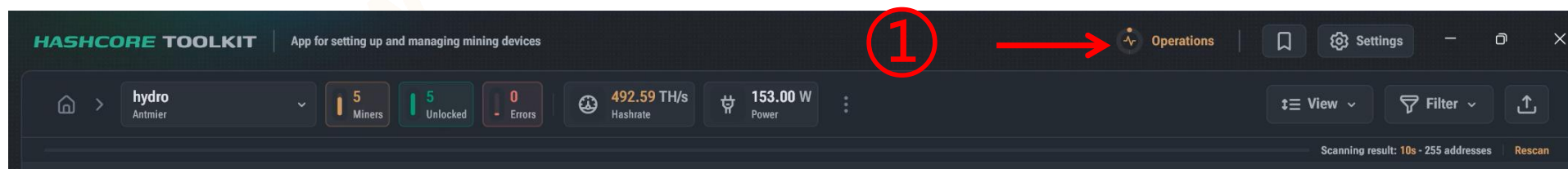
Step 7- Select 'Yes'

38~40° C Temp chip	7860 7680 Cooling mode	— Preset / Current / Min / Max	• 20230508.... Firmware	0:01 Uptime
15~48° C Temp chip	5880 5880 5880 5760 Cooling mode	— Preset / Current / Min / Max	• 2021.04.27 Firmware	0:00 Uptime
53~74° C Temp chip	5640 5880 5880 5880 Cooling mode	— Preset / Current / Min / Max	• 2021.04.27 Firmware	0:09 Uptime
35~60° C Temp chip	0 0 0 0 Cooling mode	— Preset / Current / Min / Max	• 2022.12.19 Firmware	0:37 Uptime
36~62° C Temp chip	0 0 0 0 Cooling mode	— Preset / Current / Min / Max	• 2023.03.08 Firmware	0:43 Uptime

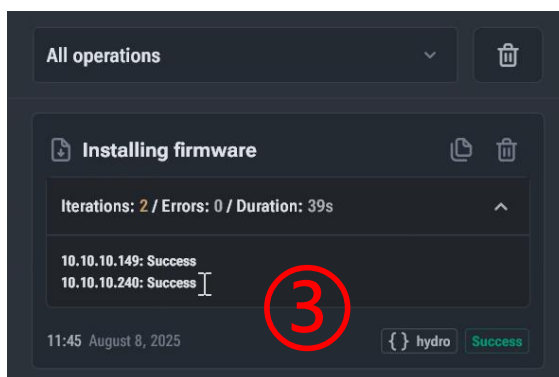
Installing firmware X

Install firmware for 2 devices

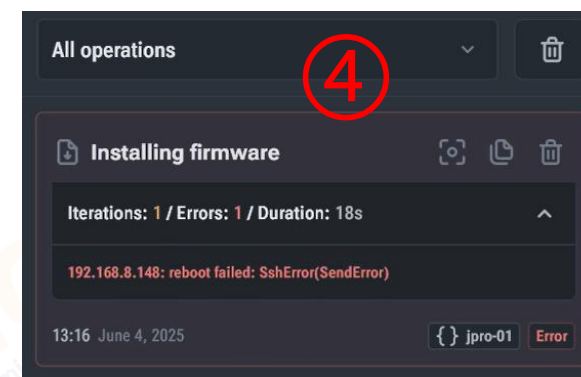
Step 8. Check the operation process and result



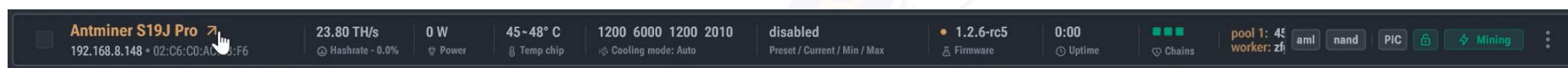
2 All operation- Installing



3 All operation- Success



4 All operation- Errors

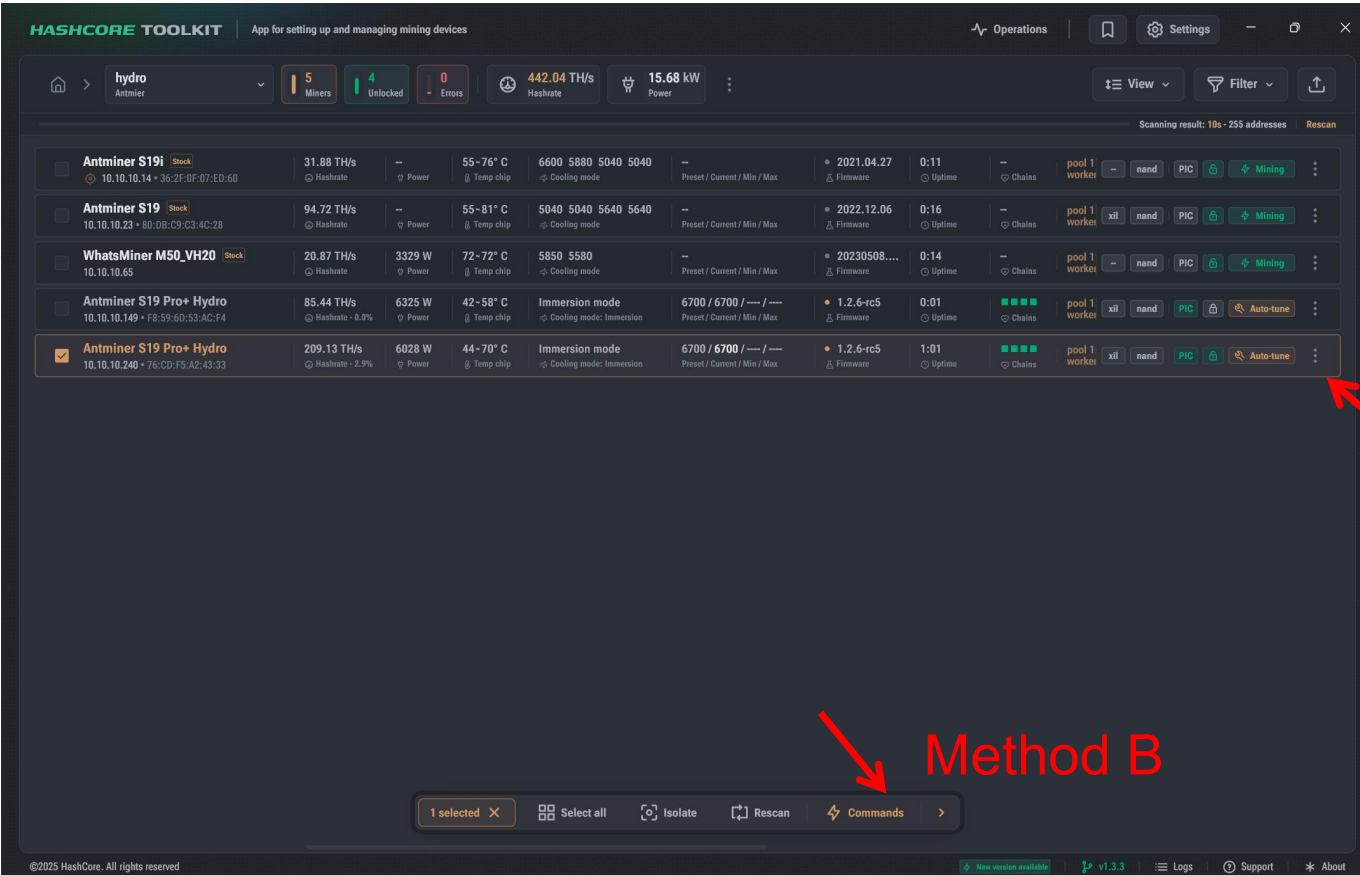


5 Install successfully. Check status ↗ open the miner

Part Three

Update Byteon Firmware

Step 1- Click 'Commands' or ':' on the right corner



HASHCORE TOOLKIT App for setting up and managing mining devices

Operations | Settings

hydro Antminer 5 Miners 4 Unlocked 0 Errors 442.04 TH/s Hashrate 15.68 kW Power

View Filter

Scanning result: 10s - 255 addresses Rescan

Device	Hashrate	Power	Temp chip	Cooling mode	Preset / Current / Min / Max	Firmware	Uptime	Chains	pool 1 worker	nand	PIC	Auto-tune
Antminer S19i	31.88 TH/s	—	55-76° C	6600 5880 5040 5040	—	2021.04.27	0:11	—	pool 1 worker	nand	PIC	Auto-tune
Antminer S19	94.72 TH/s	—	55-81° C	5040 5040 5640 5640	—	2022.12.06	0:16	—	pool 1 worker	xil	nand	Auto-tune
WhatsMiner M50_VH20	20.87 TH/s	3329 W	72-72° C	5850 5880	—	20230508....	0:14	—	pool 1 worker	nand	PIC	Auto-tune
Antminer S19 Pro+ Hydro	85.44 TH/s	6325 W	42-58° C	Immersion mode	6700 / 6700 / — / —	1.2.6-rc5	0:01	—	pool 1 worker	xil	nand	Auto-tune
Antminer S19 Pro+ Hydro	209.13 TH/s	6028 W	44-70° C	Immersion mode	6700 / 6700 / — / —	1.2.6-rc5	1:01	—	pool 1 worker	xil	nand	Auto-tune

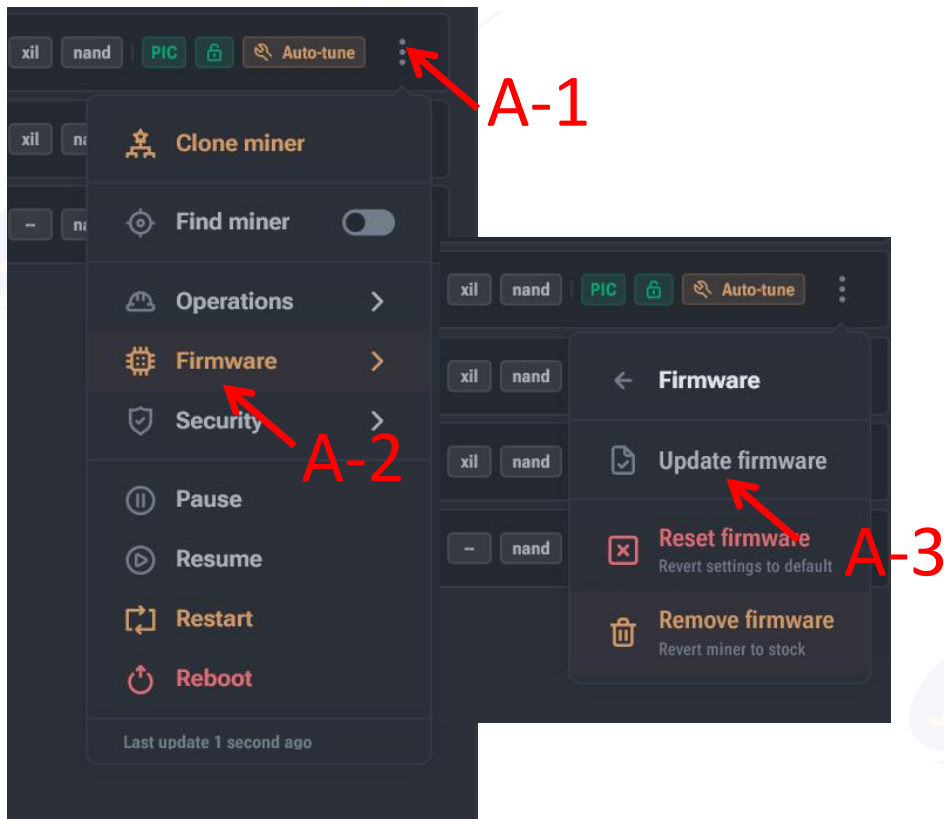
1 selected Select all Isolate Rescan Commands

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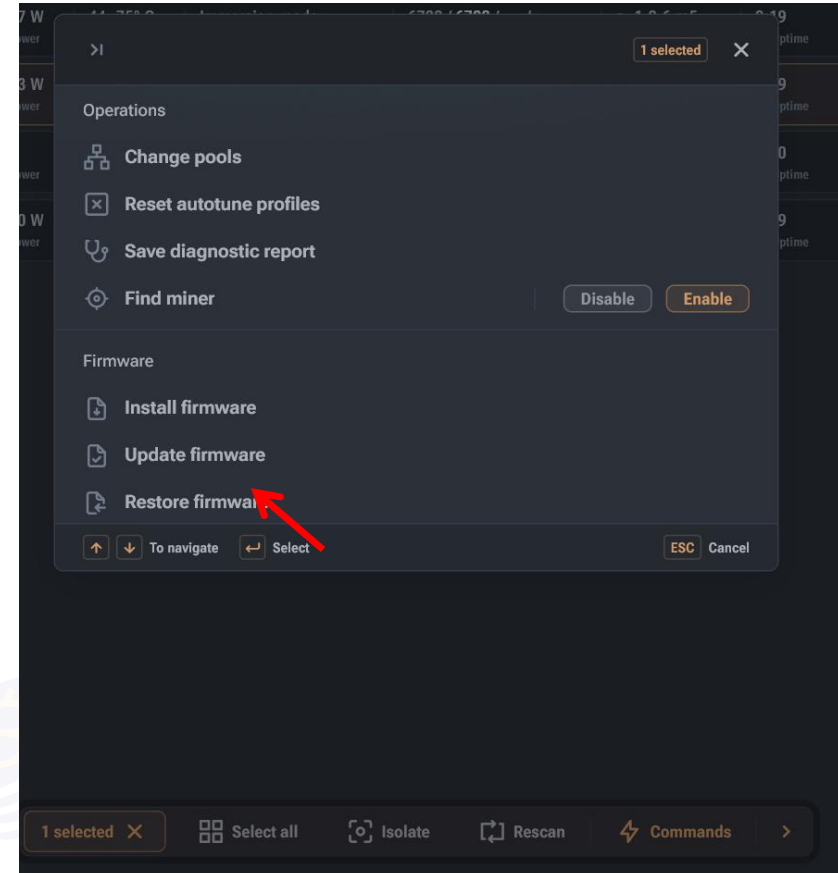
Method A

Method B

Step 1- Select 'Update firmware'



Method A

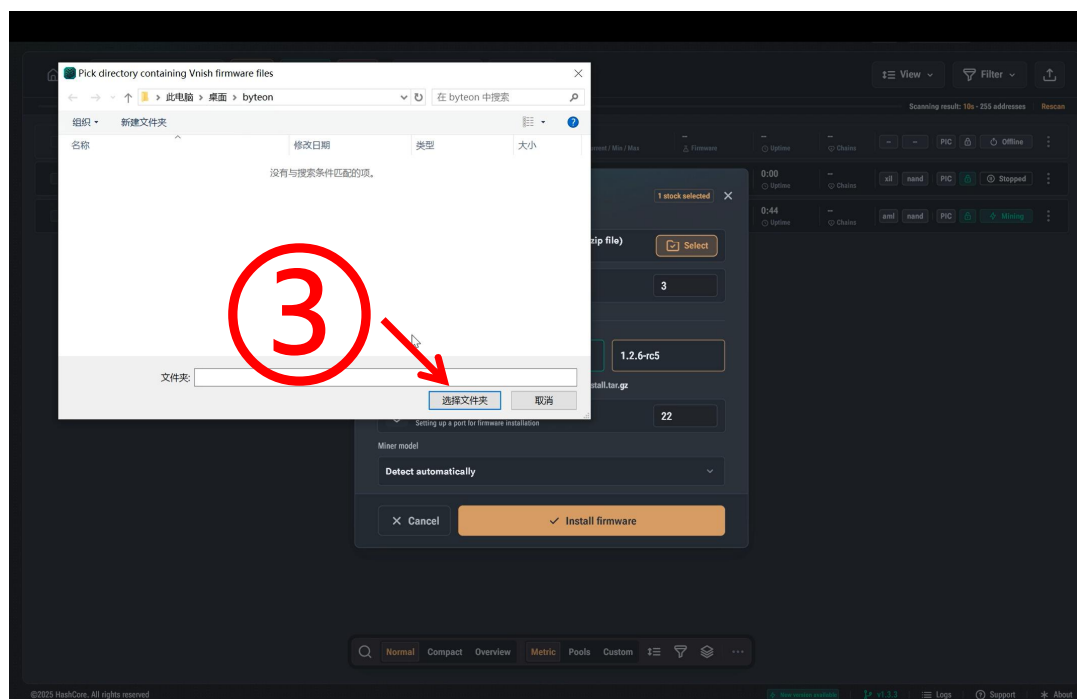
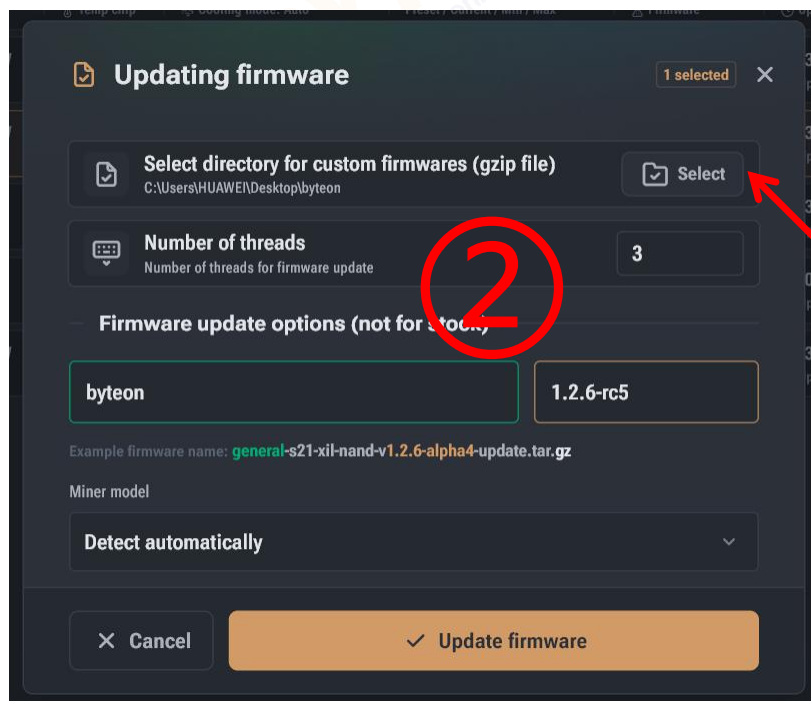


Method B

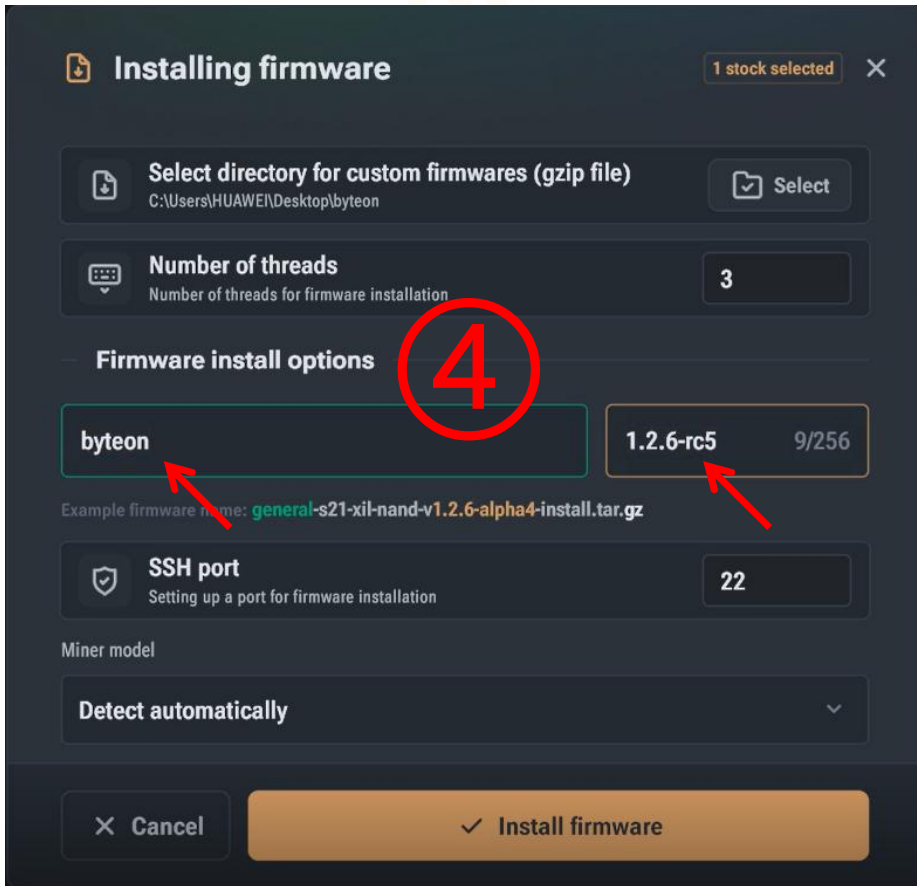
Step 2- Click 'Select' to open folder

Step 3- Open 'byteon' folder where the update fw is.

* there's no file displayed, it's normal



Step 4- Fill in the fw name 'byteon' and the version that matches the fw you downloaded.



Installing firmware 1 stock selected X

Select directory for custom firmwares (gzip file)
C:\Users\HUAWEI\Desktop\byteon Select

Number of threads
Number of threads for firmware installation 3

Firmware install options

byteon 1.2.6-rc5 9/256

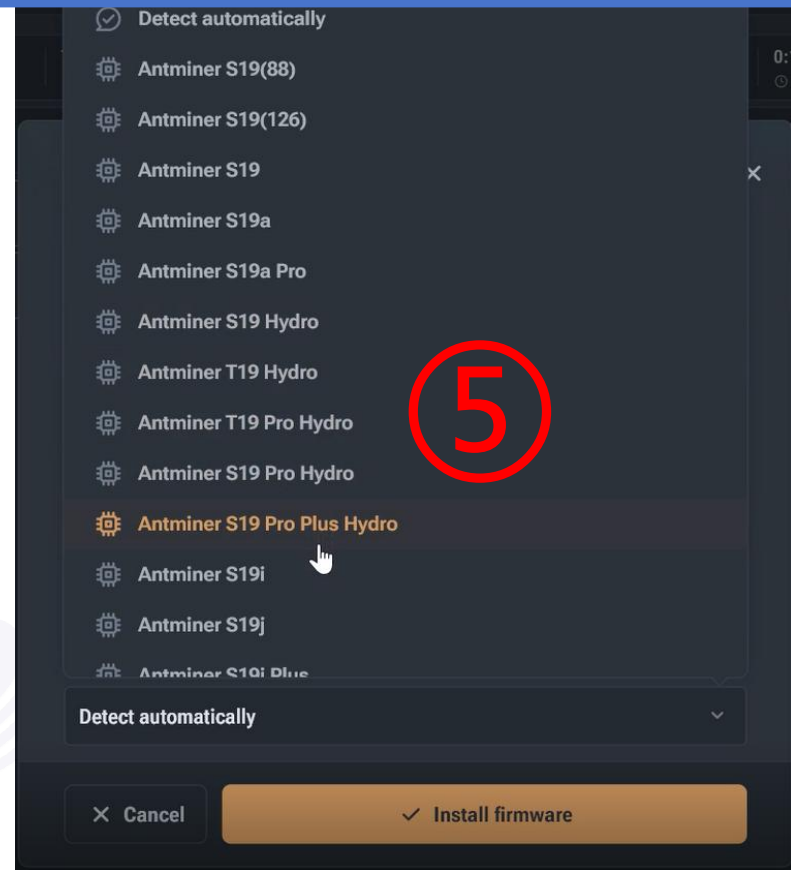
Example firmware name: general-s21-xil-nand-v1.2.6-alpha4-install.tar.gz

SSH port
Setting up a port for firmware installation 22

Miner model
Detect automatically

X Cancel ✓ Install firmware

Step 5- Select miner model
*If there is no required model, detect automatically'



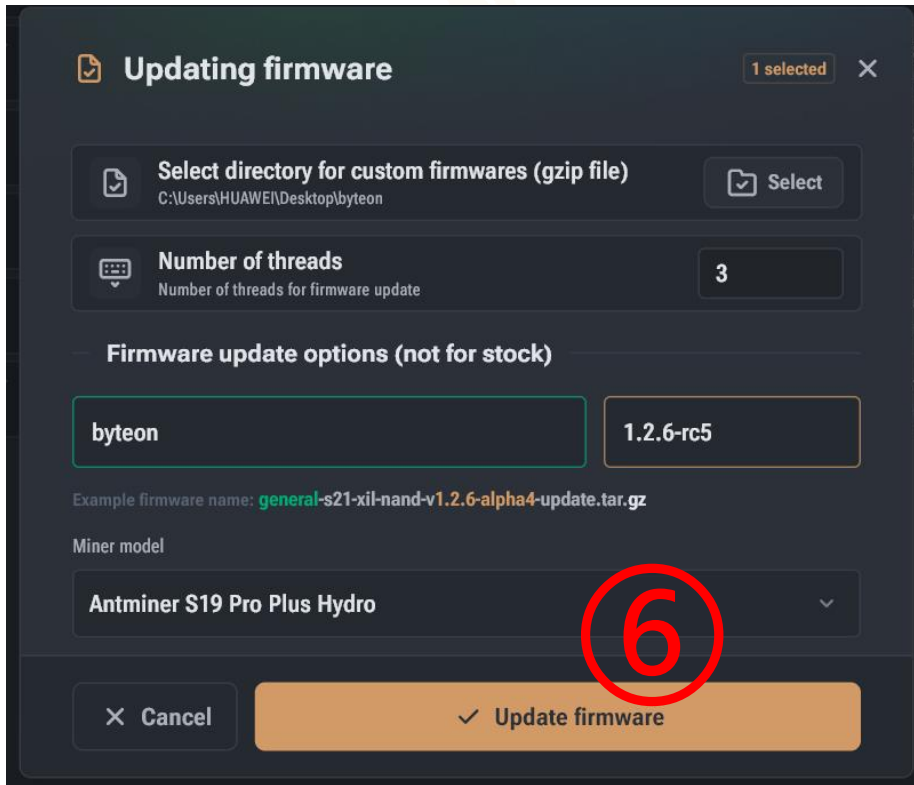
Detect automatically

- Antminer S19(88)
- Antminer S19(126)
- Antminer S19
- Antminer S19a
- Antminer S19a Pro
- Antminer S19 Hydro
- Antminer T19 Hydro
- Antminer T19 Pro Hydro
- Antminer S19 Pro Hydro
- Antminer S19 Pro Plus Hydro**
- Antminer S19i
- Antminer S19j
- Antminer S19i Plus

Detect automatically

X Cancel ✓ Install firmware

Step 6- Update firmware



Updating firmware 1 selected X

Select directory for custom firmwares (gzip file)
C:\Users\HUAWEI\Desktop\byteon

Number of threads
Number of threads for firmware update

Firmware update options (not for stock)

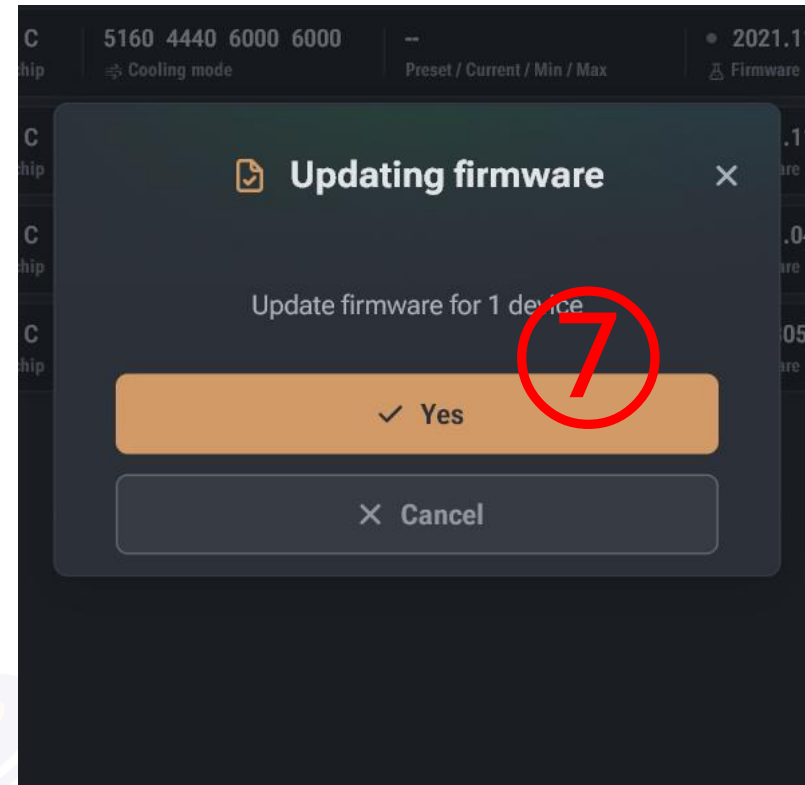
byteon 1.2.6-rc5

Example firmware name: **general-s21-xil-nand-v1.2.6-alpha4-update.tar.gz**

Miner model
Antminer S19 Pro Plus Hydro

X Cancel

Step 7- Select 'Yes'



Updating firmware X

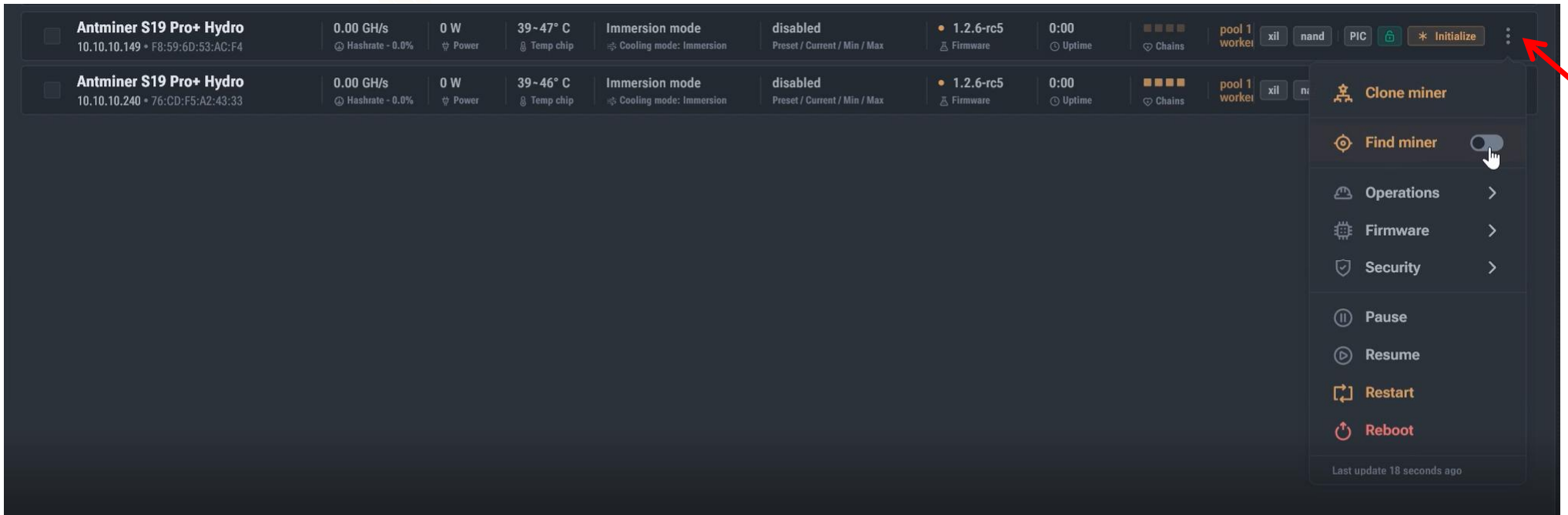
Update firmware for 1 device

Step 8. Check the Operation process and result from 'Operation'

Part Four

Other Operation

Clone firmware for batches miners, Find miner and miner Control



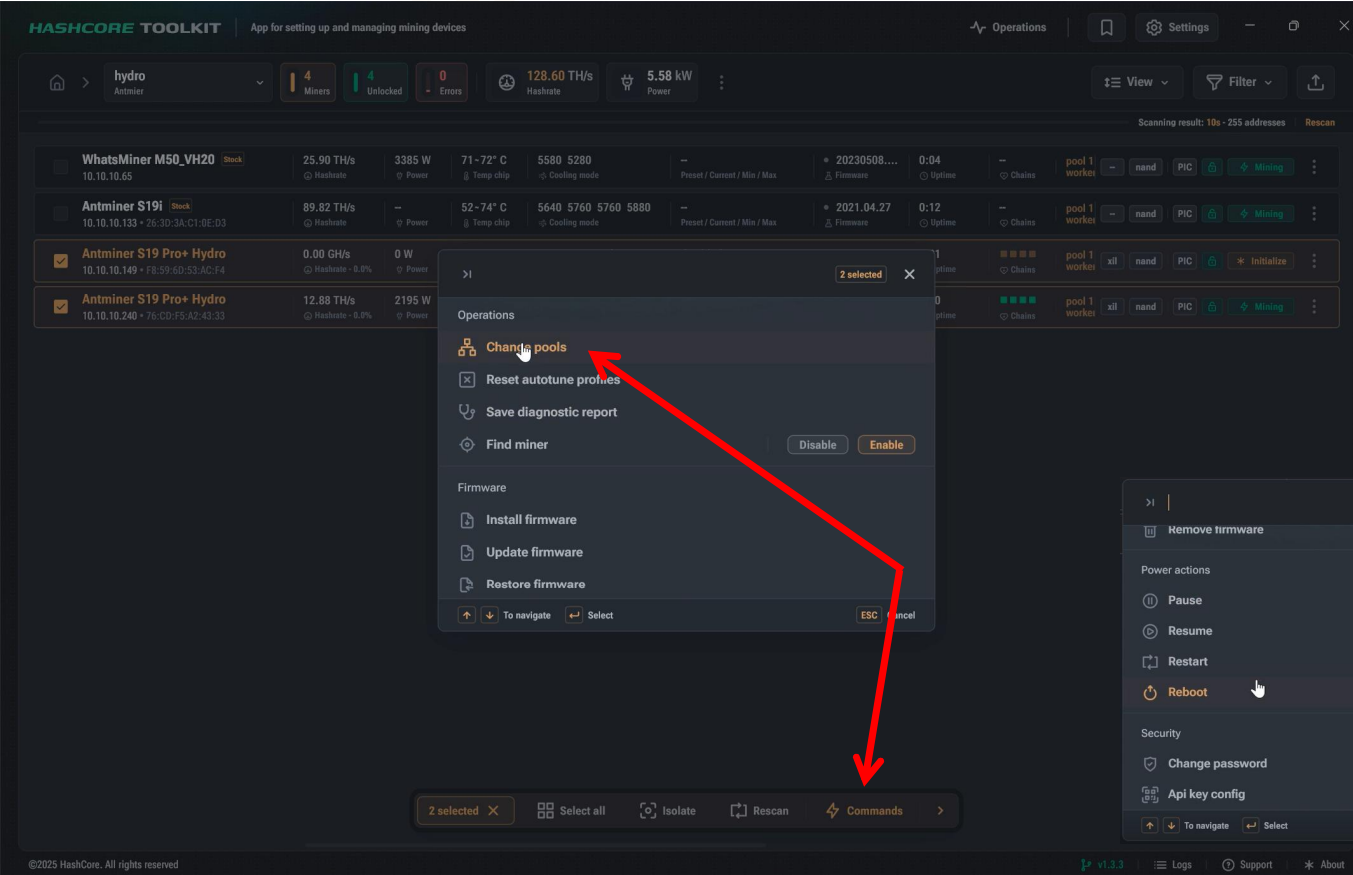
Antminer S19 Pro+ Hydro	0.00 GH/s	0 W	39~47° C	Immersion mode	disabled	1.2.6-rc5	0:00	pool 1 worker	xil	nand	PIC	* Initialize
10.10.10.149 • F8:59:6D:53:AC:F4	Hashrate - 0.0%	Power	Temp chip	Cooling mode: Immersion	Preset / Current / Min / Max	Firmware	Uptime	Chains				
Antminer S19 Pro+ Hydro	0.00 GH/s	0 W	39~46° C	Immersion mode	disabled	1.2.6-rc5	0:00	pool 1 worker	xil	ni		
10.10.10.240 • 76:CD:F5:A2:43:33	Hashrate - 0.0%	Power	Temp chip	Cooling mode: Immersion	Preset / Current / Min / Max	Firmware	Uptime	Chains				

- Clone miner
- Find miner ☒
- Operations >
- Firmware >
- Security >
- Pause
- Resume
- Restart
- Reboot

Last update 18 seconds ago

Select '⋮' to get options to set miners.
Select 'Find miner' will light up the mining machine indicators.
Select 'Clone miner' to copy miner settings to other miners.

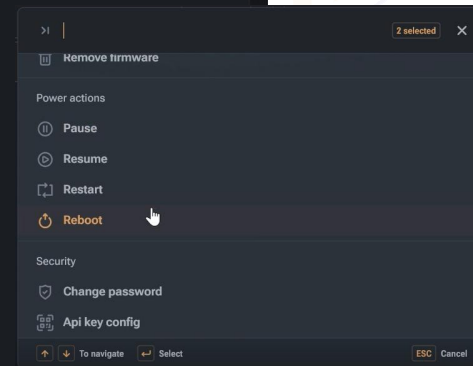
Change the pool account in batches



The screenshot shows the HashCore Toolkit interface. The 'Operations' menu is open, and the 'Change pools' option is highlighted. A red arrow points from this option to the 'Commands' button at the bottom of the screen. The interface displays a list of miners with their status, hash rate, power, and temperature. The 'Commands' button is located at the bottom right of the main panel.

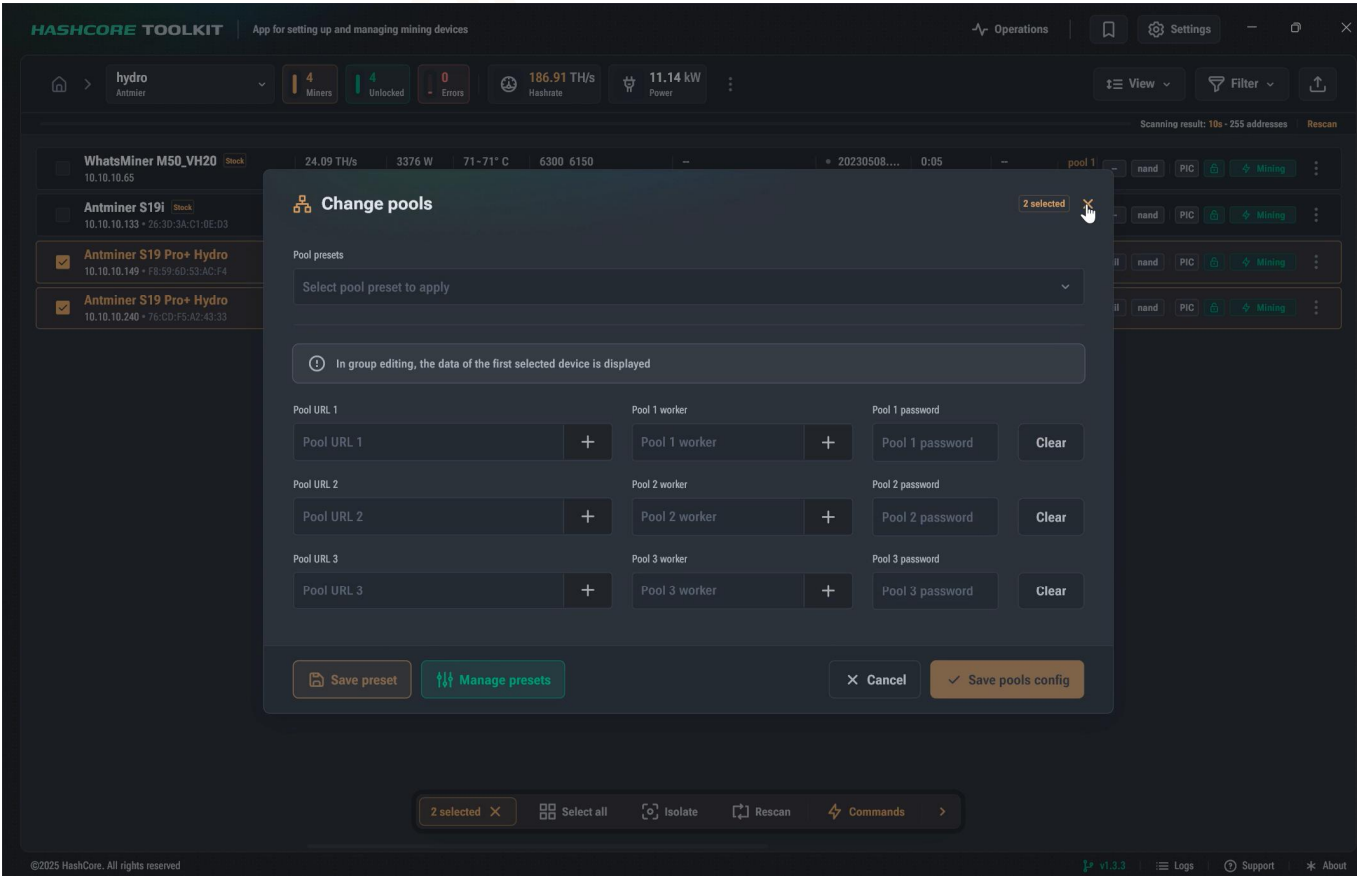
- 1\ Select miners,
- 2\ Commands,
- 3\

- Operations->Change pools
- Firmware
- Power actions
- Security



The screenshot shows the 'Remove firmware' dialog box. The 'Reboot' option is highlighted under the 'Power actions' section. The dialog box also includes options for 'Pause', 'Resume', 'Restart', 'Change password', and 'Api key config'.

Change the pool account in batches



HASHCORE TOOLKIT App for setting up and managing mining devices

Operations | Settings

hydro Antminer 4 Miners 4 Unlocked 0 Errors 186.91 TH/s Hashrate 11.14 kW Power

View Filter

Scanning result: 10s - 255 addresses Rescan

WhatsMiner M50_VH20 10.10.10.65 24.09 TH/s 3376 W 71~71° C 6300 6150 20230508... 0:05 pool 1 nand PIC Mining

Antminer S19i 10.10.10.133 + 26:10:3A:C1:0E:D3 nand PIC Mining

Antminer S19 Pro+ Hydro 10.10.10.149 + F8:59:6D:53:AC:F4 nand PIC Mining

Antminer S19 Pro+ Hydro 10.10.10.240 + 76:CD:FS:A2:43:33 nand PIC Mining

Change pools 2 selected

Pool presets

Select pool preset to apply

In group editing, the data of the first selected device is displayed

Pool URL 1	Pool 1 worker	Pool 1 password	
Pool URL 1	Pool 1 worker	Pool 1 password	Clear
Pool URL 2	Pool 2 worker	Pool 2 password	Clear
Pool URL 3	Pool 3 worker	Pool 3 password	Clear

Save preset Manage presets Cancel Save pools config

2 selected Select all Isolate Rescan Commands

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Operation-> Change pools
set your pool information