

BITMAIN

C1 Manual



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1 Overview

Bitmain's first Liquid Cooled Server – the C1: This manual is only for C1's set up, Cooling Kit is direct supported by the third-party recommended.



Note:

1. You must prepare your own ATX Power Supply. There are 4 PCI-e connectors for +12V DC input and all are required.
2. Cooling kit is not included in C1, please read the instruction at www.bitmaintech.com to buy them.

2 Connect to Server

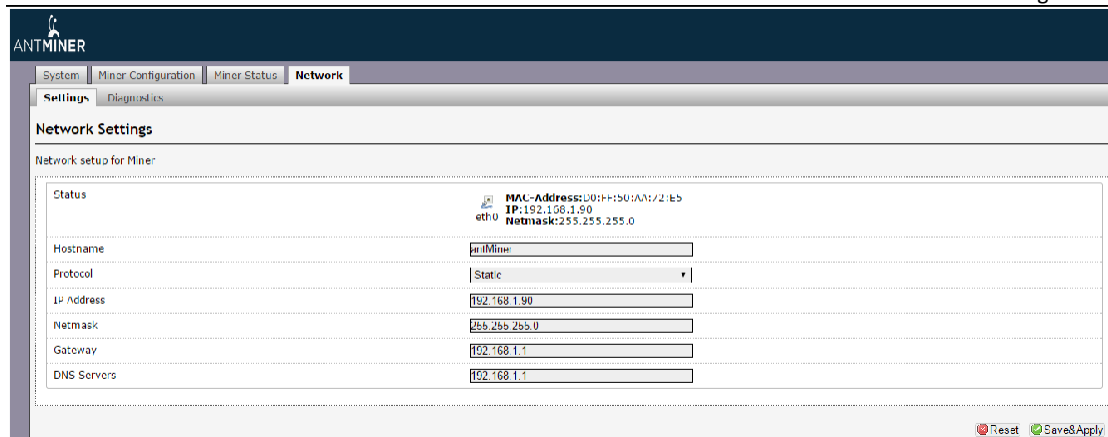
Step 1. Connect your server and PC via network cable.

Step 2. Enter server's default IP address: 192.168.1.99 into your web browser, then login server management interface, both of username and password is 'root' by default.

Step 3. Modify the IP address of the server. Click "Network→Settings" to modify the IP address as shown in below screenshot. Choose 'Save and Apply' after modifying it.

***** If you decide to change the server's IP address, Please Write It Down & DO NOT FORGET it. If you forget the IP address, you will not be able to access server again. *****





The screenshot shows the ANTMINER web interface with the 'Network' tab selected. The 'Network Settings' section is titled 'Network setup for Miner'. It displays the current status of the network interface 'eth0' with the following details:

- Status:  **MAC-Address:** 08:00:11:30:AA:22:1E:55
- IP:** 192.168.1.80
- Netmask:** 255.255.255.0

Below the status information, there are input fields for configuring the network:

- Hostname:**
- Protocol:**
- IP Address:**
- Netmask:**
- Gateway:**
- DNS Servers:**

At the bottom right of the form, there are two buttons: 'Reset' (with a red circular icon) and 'Save & Apply' (with a green circular icon).

3 Server Configuration

3.1 Pool Setting

Through 'Configuration-> General Settings', you will be able to configure your server. Pool URL-In this field you should enter the URL of your desired pool.

Worker- This is your worker ID on the selected pool.

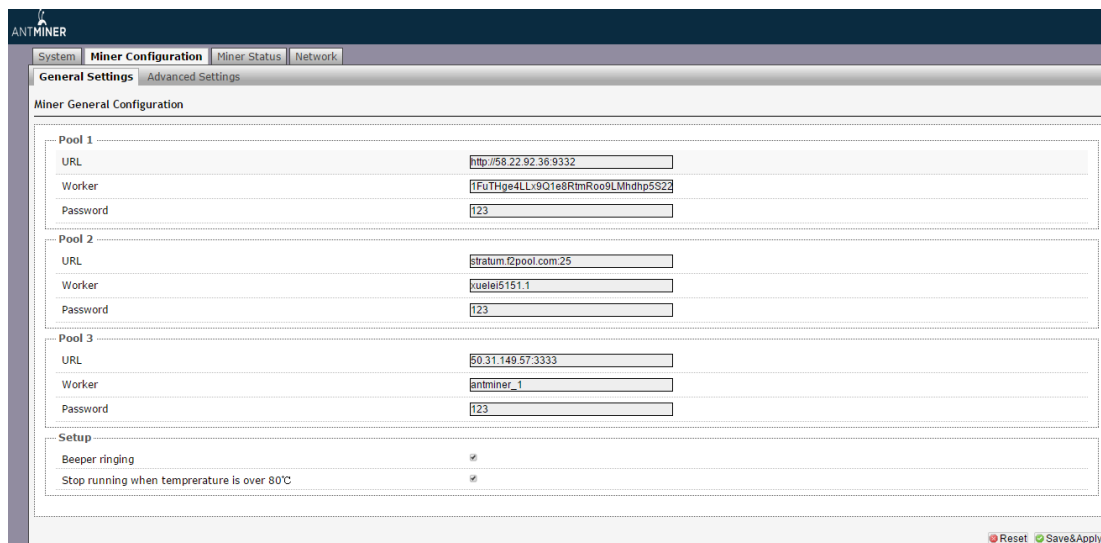
Password- This is the password for your selected worker.

Comment:

1. One server can be set up with three mining pools, the priority decreases from first pool (pool 1) to third pool (pool 3). **The low priority pool will start to work, only when the high priority pool encounter fault.**
2. When 'Beeper ringing' is chosen, beeper will ring once the server stops mining, otherwise beeper won't alert, even if the Server stops mining.
3. When 'Stop running when temperature is over 80 °C' is chosen, Server won't mine if the temperature is over 80 °C to protect the server. If it's not chosen, the Server will continue mining even if it's with high temperature.

Click 'Save & Apply' to save the settings and restart server.

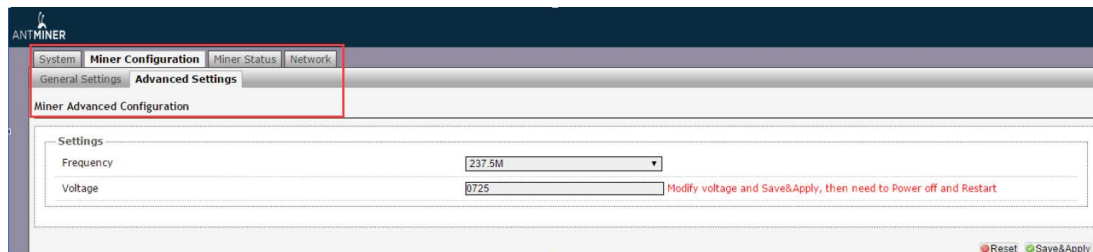




3.2 Advanced Setting

We added the “Advanced Settings” under “Configuration” to change the frequency. The default frequency is 250MHz. For the voltage option, ‘0725’ means the operating voltage of chip is 0.725V. Voltage needs to be modified when adjusting the frequency.

Kind reminder, warranty will end immediately if the server is overlocked.



4 Server Status

Under ‘Status’ marked below, you will be able to check the running status for your server.



ANTMINER

System

Miner Configuration

Miner Status

Network

Miner Status

Summary

Elapsed	GH/S(5s)	G+/S(avg)	Foundblocks	LocalWork	Utility	WU	BestShare
4h21m51s	926.47	1007.80	0	4350747	6.01	14075.99	0

Pools

Pool	URL	User	Status	Diff	GetWorks	Priority	Accepted	Diff1#	DiffA#	DiffR#	DiffS#	Rejected	Discarded	Stale	LSDiff	LSTime
0	stratum+tcp://192.168.110.60:3333	antminer_1	Dead		0	0	0	0	0	0	0	0	0	0	0	0
1	stratum+tcp://stratum.antpool.com:3333	antminer_1	Alive	2.05K	332	1	1574	3665888	3548160	147456	3	39	8550	0	2048	0:00:03
2	stratum+tcp://50.31.149.57:3333	antminer_1	Alive	1.02K	2	2	0	0	0	0	0	0	0	0	0	0
total					334		1574	3665888	3548160	147456	3	39	8550	0		
HW	3							0.0001%	0.0001%							

AntMiner

Chain#	ASIC#	Frequency	Temp	ASIC status
1	16	250	46	00000000 00000000
2	16	250	49	00000000 00000000
3	16	250	48	00000000 00000000
4	16	250	47	00000000 00000000
Fan#	Fan1	Fan2	Fan3	Fan4
Speed (r/min)	0	2643	0	0

ASIC#: ASIC number in the chain

Frequency: ASIC setting frequency

Temp: Temperature, centigrade

ASIC status: o stands for OK, x stands for error.

5 System Configuration

5.1 System Upgrading

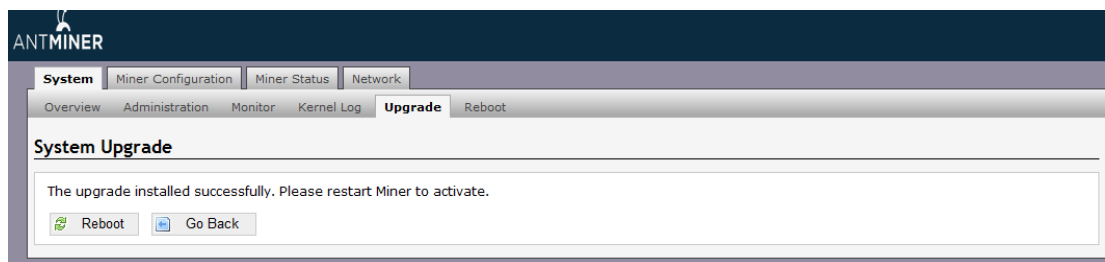
Through 'System->Upgrade' you will be able to upgrade your server.

ANTMINER																									
System Miner Configuration Miner Status Network																									
Overview Administration Monitor Kernel Log Upgrade Reboot																									
Upgrade																									
Backup / Restore																									
Click "Generate archive" to download a tar archive of the current configuration files. To reset the firmware to its initial state, click "Perform reset" (only possible with squashfs images).																									
Download backup:										<input checked="" type="button" value="Generate archive"/>															
Reset to defaults:										Perform reset															
To restore configuration files, you can upload a previously generated backup archive here.																									
Restore backup:										选择文件 未选择任何文件 <input checked="" type="button" value="Upload archive..."/>															
Flash new firmware image																									
Upload a sysupgrade-compatible image here to replace the running firmware. Check "Keep settings" to retain the current configuration.																									
Keep settings:										☒															
Image:										选择文件 未选择任何文件 <input checked="" type="button" value="Flash image..."/>															

'Keep setting' is chosen by default, you should choose it if you hope to preserve the current settings. You should uncheck this option if you hope to restore to initial settings.

Click 'Browse' button to choose upgrade file. After choosing upgrade file, click 'Flash image...' button, it will remind if you confirm to upgrade firmware, start to download software after choosing upgrading software. During the upgrade process, you need to **wait patiently, and must keep power on**. You will see below screenshot after upgrading successfully.

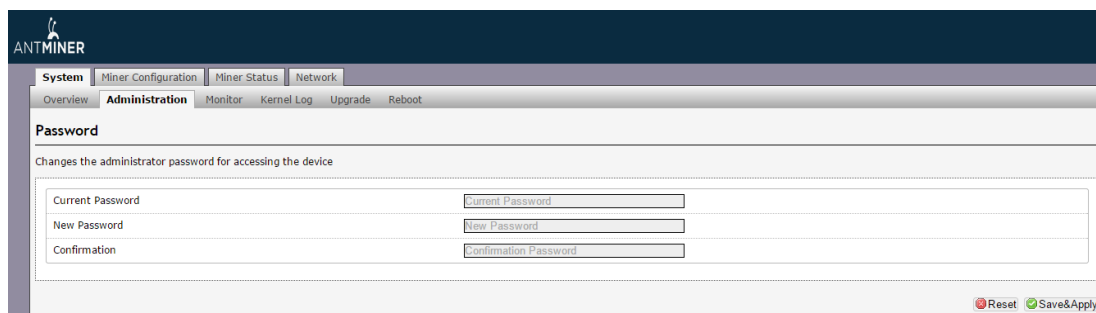




Choose 'Reboot' button, Server will restart and run the new system. Choose 'Go Back', Server will continue running with the old system, but it will run new system when it power on next time.

5.2 Password Modification

Through 'System->Administration', you can change server login password, choose 'Save and Apply' to make sure the password is modified successfully.

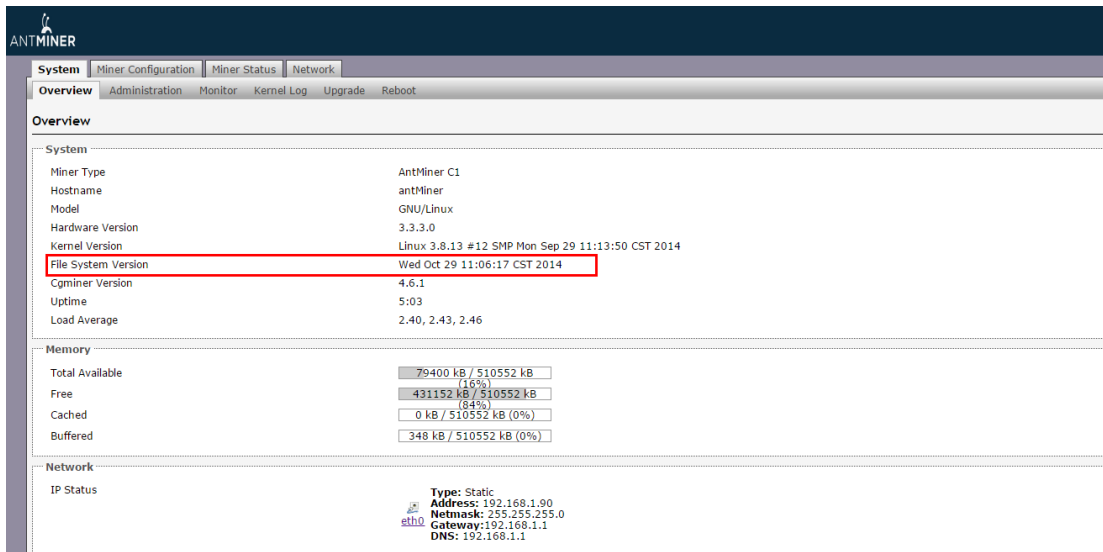


5.3 Software Version Checking

Through 'System->Overview', you will be able to check the software version you used.

After upgrading the software, go to this page to check if you are using the latest version of software via 'File System Version'.





The screenshot shows the AntMiner C1 web interface. The top navigation bar includes 'System', 'Miner Configuration', 'Miner Status', and 'Network'. Below this, there are tabs for 'Overview', 'Administration', 'Monitor', 'Kernel Log', 'Upgrade', and 'Reboot'. The 'Overview' tab is selected, displaying system information. The 'System' section lists various details, with 'File System Version' highlighted by a red box. The 'Memory' section shows usage statistics, and the 'Network' section displays IP status and configuration.

System	
Miner Type	AntMiner C1
Hostname	antMiner
Model	GNU/Linux
Hardware Version	3.3.3.0
Kernel Version	Linux 3.8.13 #12 SMP Mon Sep 29 11:13:50 CST 2014
File System Version	Wed Oct 29 11:06:17 CST 2014
Cgminer Version	4.6.1
Uptime	5:03
Load Average	2.40, 2.43, 2.46

Memory	
Total Available	79400 kB / 510552 kB (16%)
Free	431152 kB / 510552 kB (84%)
Cached	0 kB / 510552 kB (0%)
Buffered	348 kB / 510552 kB (0%)

Network	
IP Status	Type: Static Address: 192.168.1.90 Netmask: 255.255.255.0 Gateway: 192.168.1.1 DNS: 192.168.1.1

5.4 Restore Initial Setting

Press the 'Reset' button on top of the Ethernet port and hold it on for 3 seconds, Red LED flashing every one second/ 1S. Then release 'Reset' button, Server will restore the initial setting and restart automatically.



Regulation:

FCC Notice (FOR FCC CERTIFIED MODELS):

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

EU WEEE: Disposal of Waste Equipment by Users in Private Household in the European Union



This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

台灣 ROHS:

設備名稱: _____, 型號: _____						
單元	有害物質					
	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr+6)	多溴聯苯 (PBB)	多溴二苯 醚 (PBDE)
外殼	○	○	○	○	○	○
電路板組 件	—	○	○	○	○	○
其他線材	—	○	○	○	○	○
備考 1. “超出 0.1 wt %” 及 “超出 0.01 wt %” 係指限用物質之百分比含量超出百分比含量基準值。 備考 2. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。 備考 3. “—” 係指該項限用物質為排除項目						

