

BITMAIN

AntMiner S2 Manual

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1 Overview

AntMiner S2 is a chassis style 1TH/s bitcoin miner with PSU. It has been assembled before Fab out.



1000W PSU: when you set up AntMiner S2, only need to connect to AC 220V/50Hz or 110V/60Hz.
 LCD screen: here show IP Address, Hashrate, the highest temperature. There are also Status LEDS, Reset button and Beeper on the screen.

All 5 fans for cooling, 4 bigger fans, one small fan.

Casing size: 442mm*432mm*177mm, which is suitable to install in the server cabinet.

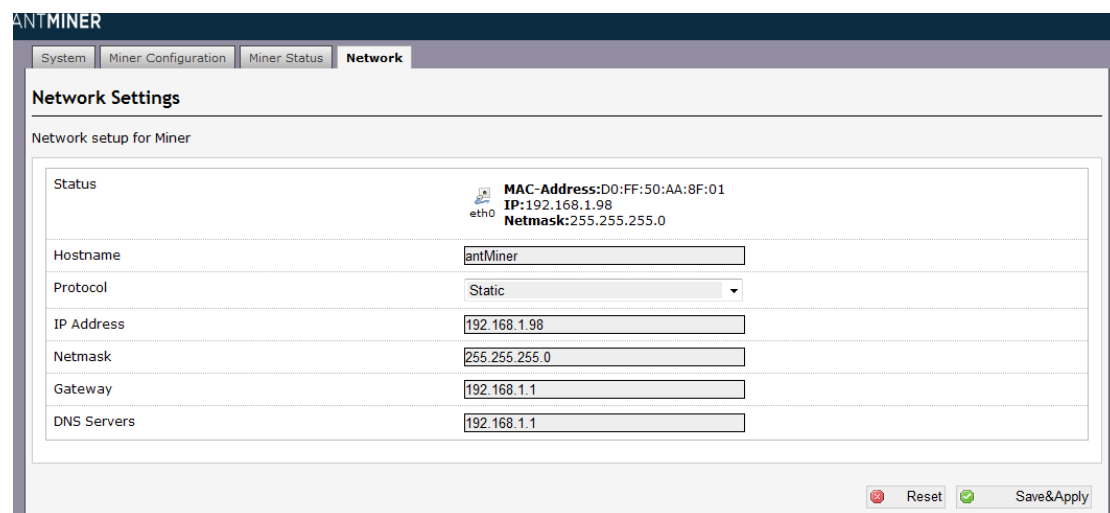
2 Connect to Miner

Step 1. Manually set up your PC's IP address in the network segment same as the miner's IP address. Default IP address of S2 is 192.168.1.99 by default, set up PC's address to 192.168.1.x.

Step 2. Connect miner and your PC via network cable.

Step3. Enter miner's IP address into your web browser, then login miner management interface, both of username and password is 'root' by default.

Through 'Network', you will be able to modify AntMiner IP address, and choose 'Save and Apply' after modifying it.



The screenshot shows the 'Network Settings' page in the AntMiner web interface. The page has a dark blue header with the 'ANTMINER' logo and a navigation bar with tabs for 'System', 'Miner Configuration', 'Miner Status', and 'Network'. The 'Network' tab is selected. Below the navigation bar, the title 'Network Settings' is displayed. The main content area is titled 'Network setup for Miner' and contains a table with the following information:

Status	eth0 MAC-Address:D0:FF:50:AA:8F:01 IP:192.168.1.98 Netmask:255.255.255.0
Hostname	antMiner
Protocol	Static
IP Address	192.168.1.98
Netmask	255.255.255.0
Gateway	192.168.1.1
DNS Servers	192.168.1.1

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

3 Pool Setting

Through 'Status->Miner Configuration', you will be able to configure your miner.

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:

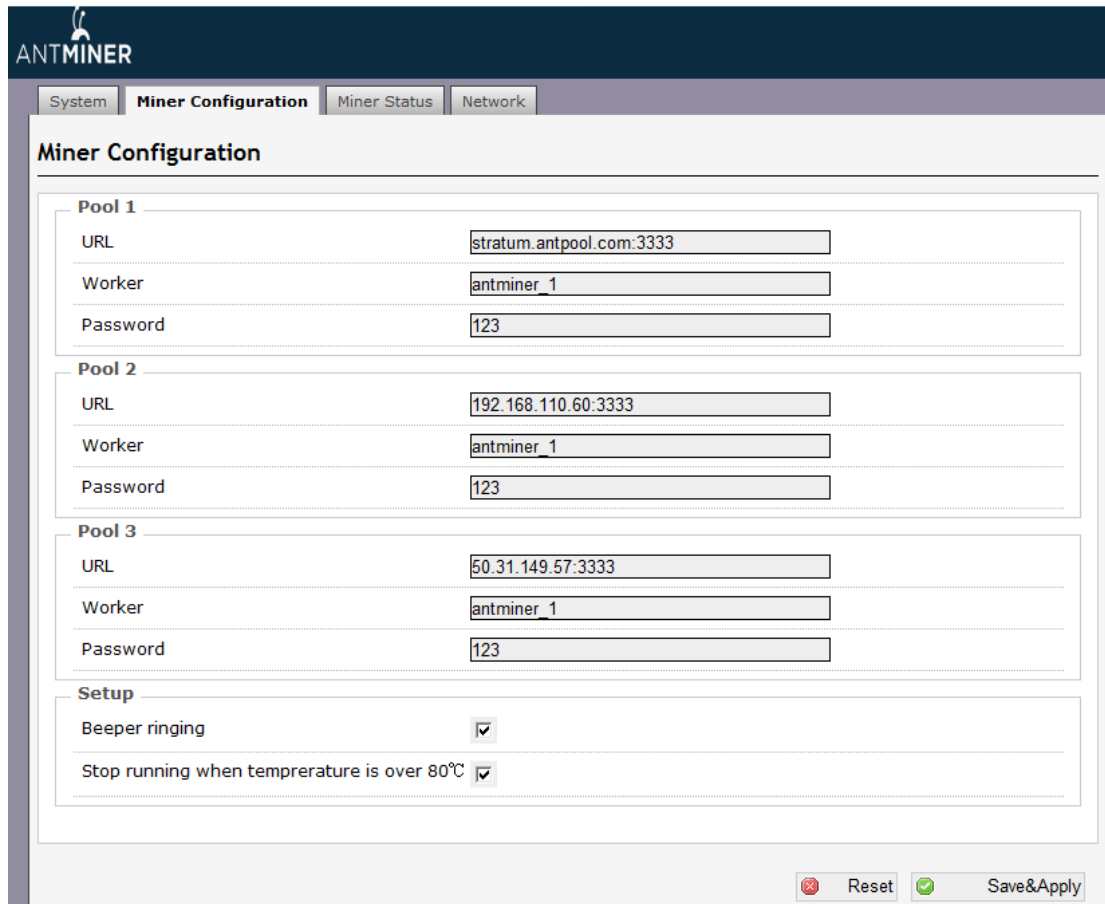
2.3.1 AntMiner can setup three mining pools, the priority decreases from first pool (pool 1) to third pool (pool 3). **The low priority pool will start to work, only when the high priority pool encounter fault.**

2.3.2 When 'Beeper ringing' is chosen, beeper is to alert once the miner stops mining, otherwise beeper won't alert, even if the Miner stops mining.

2.3.3 When 'Stop running when temperature is over 80°C' is chosen, Miner won't mine if the

temperature is over 80°C' to protect the miner. If it's not chosen, the Miner will continue mining even in high temperature.

Click 'Save & Apply' to save and restart miner.



The screenshot shows the 'Miner Configuration' tab of the AntMiner web interface. It features three sections for Pool 1, Pool 2, and Pool 3, each with input fields for URL, Worker, and Password. Below these is a 'Setup' section with two checkboxes: 'Beeper ringing' and 'Stop running when temperature is over 80°C'. At the bottom right are 'Reset' and 'Save&Apply' buttons.

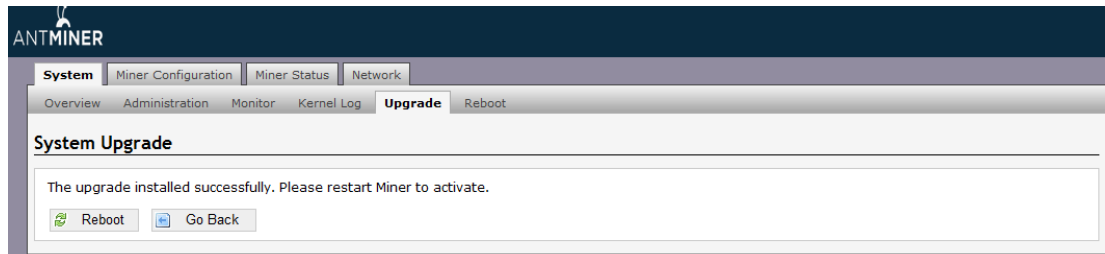
Miner Configuration	
Pool 1	
URL	stratum.antpool.com:3333
Worker	antminer_1
Password	123
Pool 2	
URL	192.168.110.60:3333
Worker	antminer_1
Password	123
Pool 3	
URL	50.31.149.57:3333
Worker	antminer_1
Password	123
Setup	
Beeper ringing	<input checked="" type="checkbox"/>
Stop running when temperature is over 80°C	<input checked="" type="checkbox"/>
<div>Reset Save&Apply</div>	

4 Miner Status

Through 'Miner Status', you will be able to check your miner running status.

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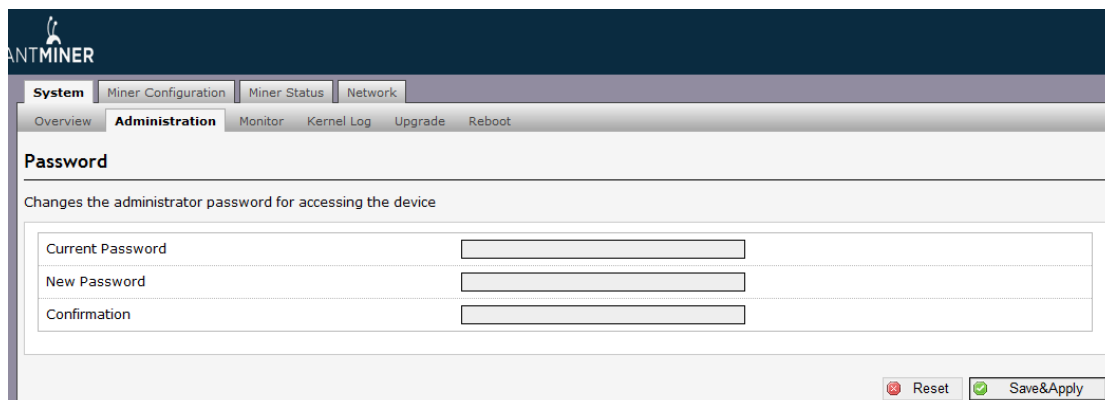
button, it will remind when upgrading software, start to download software after choosing upgrading software. During the upgrade process, you need to **wait patiently, and must keep power on, otherwise, AntMiner should be shipped to factory to restore**. You will see bellow screenshot after upgrading successfully.



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

5.2 Password Modification

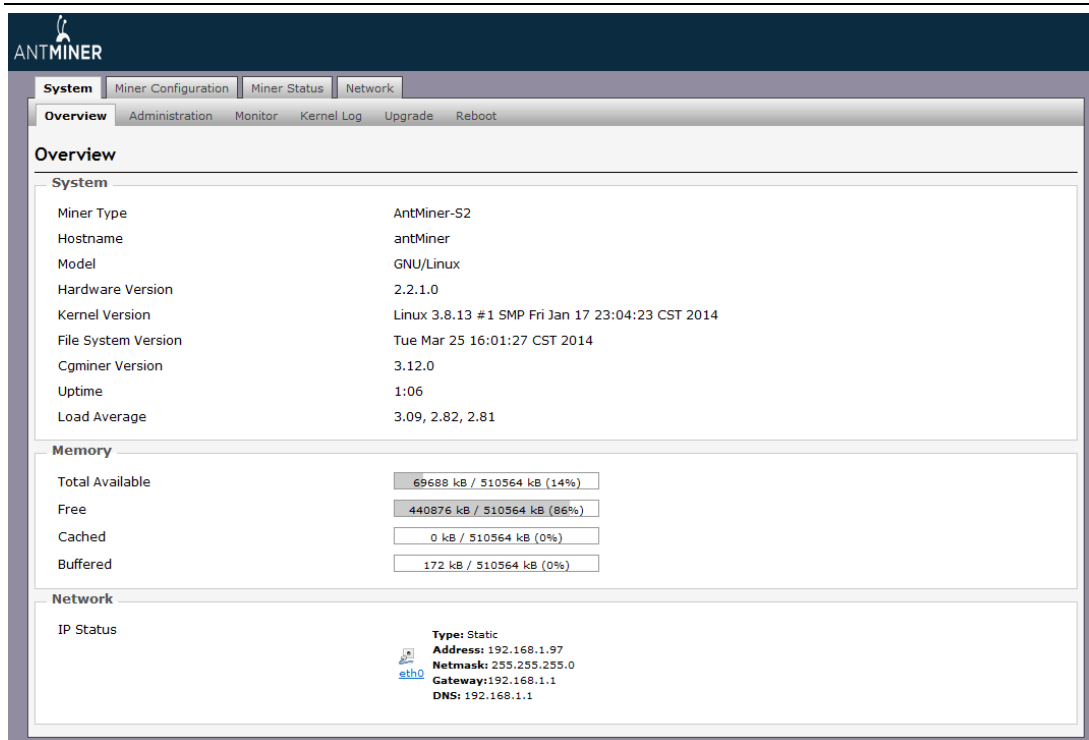
Through 'System->Administration', you will be able to modify AntMiner login password, and choose 'Save' and 'Save and Apply' after modifying it.



5.3 Software Version Checking

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

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



System Miner Configuration Miner Status Network

Overview Administration Monitor Kernel Log Upgrade Reboot

Overview

System

Miner Type	AntMiner-S2
Hostname	antMiner
Model	GNU/Linux
Hardware Version	2.2.1.0
Kernel Version	Linux 3.8.13 #1 SMP Fri Jan 17 23:04:23 CST 2014
File System Version	Tue Mar 25 16:01:27 CST 2014
Cgminer Version	3.12.0
Uptime	1:06
Load Average	3.09, 2.82, 2.81

Memory

Total Available	69688 kB / 510564 kB (14%)
Free	440876 kB / 510564 kB (86%)
Cached	0 kB / 510564 kB (0%)
Buffered	172 kB / 510564 kB (0%)

Network

IP Status	Type: Static Address: 192.168.1.97 Netmask: 255.255.255.0 Gateway: 192.168.1.1 DNS: 192.168.1.1
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5.4 Restore Initial Setting

Press the 'Reset' button on the left bottom of LCD screen and hold on for 3 seconds, red led flashing every one second/ 1S. Release 'Reset' button, Miner will restore the initial setting and restart automatically.