

http://creativecommons.org/publicdomain/zero/1.0/

To the extent possible under law, Paulo Nuno de Meyrelles has waived all copyright and related or neighboring rights to S9 ANTMINER INSTALLATION GUIDE. This work is published from: Portugal. S9 ANTMINER MINING ROOM USER GUIDE

Index

Summary	4
Introduction	5
Local network access	6
S9 Antminer configuration	7
S9 Antminer monitoring	8
Pool maintenance	9
System access resume	11
Conclusion	

Summary

User guide document will instruct the user to access, monitoring and maintenance miner room. It is structured in step by step to be easy for user.

Introduction

Miner room is a place with lot of things to check during mining process to keep the equipment at least 95% operational during processing time, trying to reduce the down time near 1%.

To reach the target, it is necessary to create some scripts to alert us and auto-correct the deviations. Time by time is mandatory monitoring the process to see if we have low hash rate, if the S9 are frozen, pool web site is down, etc. in any case the technician should stay ready to do the necessary changes.

This document will be updated any time the system had changes.

Local network access

VPN is the way to can access to miner room and work like a local network and all data between the user and miner room will be all time encrypted and transmitted inside private tunnel in Internet.

For now it was create tow VPN user:

Username	Password
diogo	Xxxxxxx
nuno	Xxxxxxx

Any operating systems has PPTP VPN client and the configuration should be easy:

- 1. Create VPN connection and in URL/IP/HOST fill up with: cryptocodessos.ddns.net;
- 2. Use PPTP settings by default;
- 3. Insert username and password;

When the VPN client is configured, just try to connect to VPN and ping an internal router IP address 192.168.10.1

Router configuration access:

- 1. Http to 192.168.10.1 IP address;
- 2. Username: xxxxxx and password: xxxxxx

S9 Antminer configuration

S9 Antminer was configure as version 1 to connect to Slushpool.com and the network settings was change from DHCP to static address to simplify the access.

S9 network configuration:

Hotname	Protocol	IP Address	Netmask	Gateway	DNS Server
Ant01	Static	192.168.10.11	255.255.255.0	192.168.10.1	192.168.10.1
Ant02	Static	192.168.10.12	255.255.255.0	192.168.10.1	192.168.10.1
Ant03	Static	192.168.10.13	255.255.255.0	192.168.10.1	192.168.10.1
Ant04	Static	192.168.10.14	255.255.255.0	192.168.10.1	192.168.10.1
Ant05	Static	192.168.10.15	255.255.255.0	192.168.10.1	192.168.10.1
Ant06	Static	192.168.10.16	255.255.255.0	192.168.10.1	192.168.10.1
Ant07	Static	192.168.10.17	255.255.255.0	192.168.10.1	192.168.10.1
Ant08	Static	192.168.10.18	255.255.255.0	192.168.10.1	192.168.10.1
Ant09	Static	192.168.10.19	255.255.255.0	192.168.10.1	192.168.10.1

S9 miner configuration:

Ant01:

Pool	URL	Worker	Password
1	stratum+tcp://eu.stratum.slushpool.com:3333	criptomania.cry001	123
2	stratum+tcp://us-east.stratum.slushpool.com:3333	criptomania.cry001	123
3	stratum+tcp://cn.stratum.slushpool.com:3333	criptomania.cry001	123

The configuration has been replicated to all other S9 just change the worker from cry001 to cry002..cry009

S9 Antminer monitoring

S9 Antminer monitoring is important check the temperature, coolers and hash rate. If the hash rate decrease and number of operational S9 machines decrease in the pool, it is important to check all S9 in mining room via remote access (VPN).

To access the S9, firstly connect to local network via VPN (previous chapter) and access to S9 via hhtp:

G a	192346	ATT - Barrison	teturage													\$	9.5	1.63
NER:																		
eten 🛓	Hos. Defi	austan Hoer Ma	fen Entnack															
ner Sta	itus:																	
hirome	Y																	_
tie	pood	GH/5(RT)		GH/S(evg)			oundBlocks		L.	calWork		Unity		WU			leitha	
100	+104	13,686.35		13,707.81						107,997		23.88		167,645.34		2100347		
Puols																		
Post		1961.		üver	Status	Diff	GetWorks	Privity	Accepted	Diffs#	DITAR	Little#	0.05#	Injected	Discarded	State	LISOIT	LST
2 M	stratum ato statum tops stratum etc	griffen skrituri alushg Due esst, skrituri alushg griffer, skrituri alusha	odi sorri: 3535 Aproli: corri: 3535 ad darm: 3335	meneties print meneties print meneties print	Alive Alive Alive	8.136	1	8 1 3	1.575 0 0	-	12.651,440 0 11.061,440	8,192 0 6,192	-	100	2,258 0 1 2,258	8 8	6.152 3 1	8:20 Rev Ner
1110									100.00	÷.	8.0000%					~		
AntMine																		
Chaine	ASICH	Frequency(evg)	GH/S[ideal]	GH/S(RT)	-	Temp((Hept)	temp[Chip	p3)				AS	C status				
8 7 8 Total	43 43 43	826.61 826.61 640.14	4,500.37 4,500.37 4,800.44 13,501.18	4,495,40 4,524,51 4,065,24 13,665,24	8 1 3	3		80 72 77		00000								8) 8)
	wit .	Fast	. Fier	2	Fax3	r.		Parist :		Fast		Tar			Fant		Tart	
	de dansels			210	N.1645							1.04	1					1.1

When you get inside the S9 page, go to miner status tab and check the hash rate, temperature of chip and the fan3 and fan6. If all parameters are stabilized you must check the other S9.

In the near future, the system will be resumed to compact dashboard to immediately check all machine status.

Pool maintenance

It is important to monitoring the pool dashboard to firstly check the operations in S9 status.

1. Access to the pool and login:



2. Check dashboard and workers tab to check some problems:

My account	I Dathboard	OC Workers	Monitoring	B Rowards	\$ Payouts	Activity Log	Ø Settings	
Q = +							1 4	
67	7.31 Th/s			0.0074276	0.00369119 BTC			
0 5	O O O	4		0.0584915 Al Teras Rea	4 BTC	1 Day Last Payord	12	
Your Contribution to the Pool Last Share 63.10 Th/s 67 E-minutes	Your Contribution to the Pool . USH % Last Share 4 Seconds 63.10 Th/s 67.35 Th/s 67.38 Th/s Emminutes Car				ument Block f	0.0H 0.00 1 D 0.00	100000 BTC 134617 BTC ay 18 Hours 581147 BTC	
				0	e		w	
2.349 Eh/s				urs 27 Menders	67.24 78/8	8 00034999 1111	11 %	
Post	Plant Scorvig Hant: Role					£.00039325 810	32 %	
00.07.45				ANY N REPORT	68-75 TM	0.00036742.870	73.0	
02:27:45	100	95081	1214	tors 23 Minutes	67.67 13/6	0.000M674 (110	75.5	
Constit House Constit		001219	1014	uuris 16 Minutes -	:67.32 Dive	1 00036334 HTC	00	

5 minutes	1.4	-	5	Delect attri	bulle	1 = 1
	nei (193	lanigi Latera	Ø. Betest			
Works: Narisi	344	Scoring ¹ Hash Hate	Hash lism: 8 [3.bisst]	Alwer B Linst	Minimum 8 Difficulty	Labore
10	ni 🕷 .	0.0116	14/02/10	242114	128	
10	e 26	13.94 794	\$3.34 tru	10.001.044	(128)	
10	0.0	10.34%64	13/87704	10.002114	128	
10		-	-	17.96.00	128	
pr.	• 20	-	-	207.5	128	
pr.			-	4.43511+	128	
pr.	0 . Tn	12.64 Tev	12.77 too	8.352-54	128	
	0 3	13.28114	13.65 (too	3.302 ma	129	
10	ett e	-	-	4 diana	120	

3. Check monitoring page to check workers connections and disconnections:

My account	II Dentioend	of Workson	2 Mentholog	D Remarks	S Payments	Activity Log	@ Settings
Device Monitoring •							1 2
East Date	Worker	Intere (Changes	0	damaged by	and Hate O	lingur	Tian O
2016-02-11-14:55	100004	(0.(++10).0)	u5 .	199.4	E Ino	1.0	5
2016/02/11 14:60	(*)818	0 (4)(2)(2)	0.)	. 59.0	R tra	- N	κ
2010-02-11.14:45	+1217	0 (-5) +2 (+2)	00.0	, 13.6	0 Tea		5
2010-02-11-05-05	31014	10(140)-0101	(0)	20	litre :		κ
2010-02-11-05-30	(21)))	10.141/2181	0.0 7	-47,1	5.7%		5
2016-02-08 17 4E	31814	10.1010-01	П.)	85.2	2.1ya		5
2010-02-09-17-10	*1013	10.141(0)-01	0):	68.2	É Tre	3	6
2016-02-05 16-55	11114	11-1111411	¢).	68.3	Erre	9	6
2216-02-05 16 50	210122	10 (+1)87/1	(6)	312	10 THE	9	ε
2218-02-09 16:05	01919	10 (-4)(0)+4(8.9		-	14	5

4. The payouts can be checked in the tab:

My account		-	Winters	let Monitoring	\$ ferende	5 Payrota	Activity	ing Distings
Payout History Total: 0.00100000 and								
(Lain-	Their Ø			0	Anniel	1.11	-10	times00
2010-02-10 10:04	Set	/#84520	half.chair.off in	WAN/CHINE-THE	8210982	(en) (; 0.000	Inte 20000	1003544093726
2010-02-04-06-04	flere	14046776	attones of re	MANUCONNATIV	0.01027108	1411. ILBR	100000 erts	s/lestitate t
2016-02-02 11:04	Set	100027	dalla/factoff to	Wind California	8.010014	tem 2.000	00002 #15	Inclusion.
2010-01-29 (4-54	dard .	19810	kpain Prine 2	manafichtions	termes	1 m 0.000	and the particular	Interview and
2018-01-22 Date:	Sec.	1010100	and she had	and the state of t	D. Chables in	- 1.00	00000 ers	Hand The Parks

System access resume

router user: admin pass: xxxxxxx

user: nuno pass: xxxxxxxx

NO-IP - Instalar no router principal e permitir PPTP (1723) server para o nosso router user: nuno.de.meireles@gmail.com pass: xxxxxxxxxxx host: cryptocodessos.ddns.net WAN IP: 192.168.1.35 (internal ip)

workers: criptomania.cry001 criptomania.cry002 criptomania.cry003 criptomania.cry004 criptomania.cry005 criptomania.cry006 criptomania.cry007 criptomania.cry008 criptomania.cry009

stratum+tcp://eu.stratum.slushpool.com:3333 stratum+tcp://us-east.stratum.slushpool.com:3333 stratum+tcp://cn.stratum.slushpool.com:3333

ANTMINERS IPs ANT01 192.168.10.11 ANT02 192.168.10.12 ANT03 192.168.10.13 ANT04 192.168.10.14 ANT05 192.168.10.16 ANT06 192.168.10.17 ANT08 192.168.10.18 ANT09 192.168.10.19

workers:

criptomania.cry001 criptomania.cry003 criptomania.cry004 criptomania.cry005 criptomania.cry006 criptomania.cry007 criptomania.cry008 criptomania.cry009

stratum+tcp://bch.viabtc.com:3333

www.f2pool.com

Conclusion

The process will continue in develop state and will be updated wend setup news features or changes. The next step will setup the Wi-Fi power switch (already order from China) and the user guide will reproduced to version 2.

Any question email / call me: <u>nuno.de.meireles@gmail.com</u> / +351 929096300