

Bicom SSH Info for Monitoring of Servers

67.207.47.35 Controller (GUI)
67.207.47.32 Host 1
67.207.47.33 Host 2
67.207.47.34 Roaming Host
67.207.47.36 SIPmon
67.207.47.37 SIPmon

Check Primary/Secondary status

```
ssh root@67.207.47.32 -p2222  
    or  
ssh root@67.207.47.33 -p2222  
    or  
ssh root@67.207.47.35 -p2222
```

C3ntrac0msys!

vps-list (shows all of the VPS's or none depending upon the Primary/Secondary state)

cat /proc/drbd (shows the server is connected and the status of either ro:Primary/
Secondary or ro:Secondary/Primary)

ifconfig (Shows the IP address of that HOST in eth0 and eth1 along with the floating IP
of .34 in eth0:VIRT)

Using the commands below you should see the following if things are running as they should.

Bens-iMac:~ benpehrson\$ ssh root@67.207.47.33 -p2222

Password:

Host02 ~ # vps-list

Found 3 VPSes:

#	NAME	IP	STATUS	UPTIME	CONTEXT	PROCESSES	FAIL0
vps	pbxcc	eth0:67.207.47.19/26	running	1 days, 10:03	57452	232	no
vps	pbxcc2	eth0:67.207.47.18/26	running	1 days, 10:47	588	185	no
vps	pbxmt1	eth0:67.207.47.20/26	running	1 days, 10:22	28761	315	no

```
Host02 ~ # cat /proc/drbd
version: 8.4.5 (api:1/proto:86-101)
srcversion: EDE19BAA3D4D4A0BEFD8CDE
```

```
1: cs:Connected ro:Primary/Secondary ds:UpToDate/UpToDate A r-----
ns:94029820 nr:0 dw:88982420 dr:29936175 al:18751 bm:0 lo:0 pe:0 ua:0 ap:0 ep:1 wo:f oos:0
```

Host02 ~ # ifconfig

```
eth0 Link encap:Ethernet HWaddr 18:66:da:e7:bd:98
inet addr:67.207.47.33 Bcast:67.207.47.255 Mask:255.255.255.192
inet6 addr: fe80::1a66:daff:fee7:bd98/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:330173482 errors:0 dropped:360 overruns:0 frame:0
TX packets:268074666 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:101519135787 (94.5 GiB) TX bytes:78154082879 (72.7 GiB)
Interrupt:69
```

```
eth1 Link encap:Ethernet HWaddr 18:66:da:e7:bd:99
inet addr:10.10.10.33 Bcast:10.10.10.255 Mask:255.255.255.0
inet6 addr: fe80::1a66:daff:fee7:bd99/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:17700125 errors:0 dropped:0 overruns:0 frame:0
TX packets:70551453 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:1345196980 (1.2 GiB) TX bytes:101597993581 (94.6 GiB)
Interrupt:70
```

```
eth0:94fe Link encap:Ethernet HWaddr 18:66:da:e7:bd:98
inet addr:67.207.47.18 Bcast:67.207.47.63 Mask:255.255.255.192
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
Interrupt:69
```

```
eth0:VIRT Link encap:Ethernet HWaddr 18:66:da:e7:bd:98
inet addr:67.207.47.34 Bcast:67.207.47.63 Mask:255.255.255.192
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
Interrupt:69
```

```
eth0:afd Link encap:Ethernet HWaddr 18:66:da:e7:bd:98
inet addr:67.207.47.19 Bcast:67.207.47.63 Mask:255.255.255.192
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
Interrupt:69
```

```
eth0:d4fa Link encap:Ethernet HWaddr 18:66:da:e7:bd:98
inet addr:67.207.47.20 Bcast:67.207.47.63 Mask:255.255.255.192
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
Interrupt:69
```

```
lo Link encap:Local Loopback
inet addr:127.0.0.1 Mask:255.0.0.0
inet6 addr: ::1/128 Scope:Host
UP LOOPBACK RUNNING MTU:65536 Metric:1
RX packets:205735869 errors:0 dropped:0 overruns:0 frame:0
TX packets:205735869 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:23211556234 (21.6 GiB) TX bytes:23211556234 (21.6 GiB)
```

Moving VPS's from .35 (Controller) to the .34 (Host Servers)

In your browser go to 67.207.47.35

co@centracom.com

C3ntrac0msys!



Welcome to SERVERware!



E-mail

Password/PIN

 **Login**

Hosts: You will see that Mirrored Host is not the same color as CONTROLLER. That means its not active.

67.207.47.35/admin/index.php?app=serverware&sw=hosts&fuie=465356678

SERVERware Site Settings SM Settings Help Logout

Select network:
Default

Hosts
VPSES
Reports
System
Settings

Name	Host Name	Address
CONTROLLER	Controller	67.207.47.35
Mirrored-Host	Host01	67.207.47.34

VPSes: You will see to the right of each VPS under Host CONTROLLER .35 That means the Controller is acting as the the Host as well.

67.207.47.35/admin/index.php?app=serverware&sw=vpses&fuie=1263909054

SERVERware Site Settings SM Settings Help Logout

Select network: Default

Hosts VPSes Reports System Settings

VPS LIST [3 of 5 VPSes]

Name	IP	Status	Uptime	Context	Processes	Host
pbxcc	eth0-67.207.47.19/26	running	4 days, 07:07	57452	170	CONTROLLER [67.207.47.35]
pbxcc2	eth0-67.207.47.18/26	running	4 days, 07:06	588	154	CONTROLLER [67.207.47.35]
pbxmt1	eth0-67.207.47.20/26	running	4 days, 07:06	28761	180	CONTROLLER [67.207.47.35]

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Back to Hosts tab: Select Mirrored Host .34 and Edit

67.207.47.35/admin/index.php?app=serverware&sw=hosts&fuie=465356678

SERVERware Site Settings SM Settings Help Logout

Select network: Default

Hosts VPSes Reports System Settings

Network Hosts

Name	Host Name	Address
CONTROLLER	Controller	67.207.47.35
Mirrored-Host	Host01	67.207.47.34

This host is enabled must be checked, and then Save

67.207.47.35/admin/index.php?app=serverware&sw=hosts&action=edit

SERVERware Site Settings SM Settings Help Logout

Select network: Default

Hosts VPSes Reports System Settings

Edit host params: Advanced Options

Name: Mirrored-Host

Hostname: Host01

Address: 67.207.47.34

SSH2 Port: 2222

This host is enabled:

Change password Save Cancel

You'll now see that both Network Hosts are the same color. That means they are both enabled.

67.207.47.35/admin/index.php?app=serverware&sw=hosts&action=edit&id= 2&fuie=0.7763709860520052

SERVERware Site Settings SM Settings Help Logout

Select network:
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INFO:
Host MirroredHost modified with success.

Network Hosts

Name	Host Name	Address
CONTROLLER	Controller	67.207.47.35
Mirrored-Host	Host01	67.207.47.34

VPses Tab: You'll now see 6 VPses 3 running, 3 stopped.

67.207.47.35/admin/index.php?app=serverware&sw=vpSES&fuie=2107852504

SERVERware Site Settings SM Settings Help Logout

Select network:
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WARNING:
VPS conflict! VPS: pbxoc HOSTS: MirroredHost and CONTROLLER

WARNING:
VPS conflict! VPS: pbxoc2 HOSTS: MirroredHost and CONTROLLER

WARNING:
VPS conflict! VPS: pbxmt1 HOSTS: MirroredHost and CONTROLLER

VPS LIST [6 of 6 VPses]

Name	IP	Status	Uptime	Context	Processes	Host
pbxoc	eth0-67.207.47.19/26	running	4 days, 07:08	57452	170	CONTROLLER [67.207.47.35]
lpbxoc	eth0-67.207.47.19/26	stopped	0	57452	0	MirroredHost [67.207.47.34]
pbxoc2	eth0-67.207.47.18/26	running	4 days, 07:07	588	154	CONTROLLER [67.207.47.35]
lpbxoc2	eth0-67.207.47.18/26	stopped	0	588	0	MirroredHost [67.207.47.34]
pbxmt1	eth0-67.207.47.20/26	running	4 days, 07:07	28761	179	CONTROLLER [67.207.47.35]
lpbxmt1	eth0-67.207.47.20/26	stopped	0	28761	0	MirroredHost [67.207.47.34]

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Settings Tab: Click Duplication, select it and click delete.

67.207.47.35/admin/index.php?app=serverware&sw=settings:duplication&fuie=124443234

SERVERware Site Settings SM Settings Help Logout

Select network:
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Duplication destinations:

Short Desc.	Path	Host	Storage
MainDupl	/home/duplication/VPses	Mirrored-Host [67.207.47.34]	CONTROLLER [67.207.47.35]

VPSes: Check Controller .35 and then STOP

67.207.47.35/admin/index.php?app=serverware&sw=vpses&fuie=2107852504

SERVERware Site Settings SM Settings Help Logout

Select network:
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WARNING:
VPS conflict! VPS: pbxcc HOSTS: MirroredHost and CONTROLLER

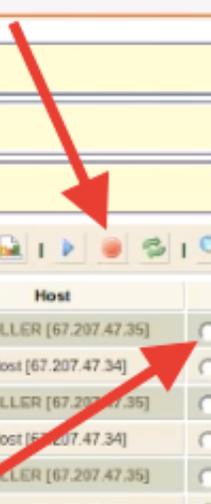
WARNING:
VPS conflict! VPS: pbxcc2 HOSTS: MirroredHost and CONTROLLER

WARNING:
VPS conflict! VPS: pbxmt1 HOSTS: MirroredHost and CONTROLLER

VPS LIST [6 of 6 VPSes]

Name ↓	IP	Status	Uptime	Context	Processes	Host	
pbxcc	eth0:67.207.47.19/26	running	4 days, 07:08	57452	170	CONTROLLER [67.207.47.35]	
!pbxcc	eth0:67.207.47.19/26	stopped	0	57452	0	MirroredHost [67.207.47.34]	
pbxcc2	eth0:67.207.47.18/26	running	4 days, 07:07	588	154	CONTROLLER [67.207.47.35]	
!pbxcc2	eth0:67.207.47.18/26	stopped	0	588	0	MirroredHost [67.207.47.34]	
pbxmt1	eth0:67.207.47.20/26	running	4 days, 07:07	28761	179	CONTROLLER [67.207.47.35]	
!pbxmt1	eth0:67.207.47.20/26	stopped	0	28761	0	MirroredHost [67.207.47.34]	

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VPSes: Notice Status is now Stopped. Check Controller .35 and then on Move Selected VPS

67.207.47.35/admin/index.php?app=serverware&sw=vpses&fuie=641096123

SERVERware Site Settings SM Settings Help Logout

Select network:
Default

Hosts
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```

INFO:
  Stopping VPS pbxcc ...
  * Stopping local
  httpd stopped successfully.
  * Stopping PBXware Proxy ... [ ok ]
  * Stopping Asterisk ... [ ok ]
  * Stopping PBXware ... [ ok ]
  * Stopping tftpd ... [ ok ]
  * Stopping nginx ... [ ok ]
  * Removing cache files ... [ ok ]
  * Stopping php-fpm ... [ ok ]
  * Stopping memcached ... [ ok ]
  * Stopping beanstalkd ... [ ok ]
  * Stopping jabberd ... [ ok ]
  * Stopping MySQL ... [ ok ]
  [ ok ]
  * Stopping vixie-cron ... [ ok ]
  * Saving random seed ... [ ok ]
  * Stopping sshd ... [ ok ]
  * Stopping syslog-ng ... [ ok ]
  * Terminating remaining processes ... [ ok ]
  * Killing remaining processes ... [ ok ]
  
```

WARNING:
VPS conflict! VPS: pbxcc HOSTS: MirroredHost and CONTROLLER

WARNING:
VPS conflict! VPS: pbxcc2 HOSTS: MirroredHost and CONTROLLER

WARNING:
VPS conflict! VPS: pbxmt1 HOSTS: MirroredHost and CONTROLLER

VPS LIST [6 of 6 VPSes]

Name	IP	Status	Uptime	Context	Processes	Host	
pbxcc	eth0:67.207.47.19/26	stopped	0	57452	0	CONTROLLER [67.207.47.35]	<input checked="" type="radio"/>
pbxcc	eth0:67.207.47.19/26	stopped	0	57452	0	MirroredHost [67.207.47.34]	<input type="radio"/>
pbxcc2	eth0:67.207.47.18/26	running	4 days, 07:09	588	154	CONTROLLER [67.207.47.35]	<input type="radio"/>
pbxcc2	eth0:67.207.47.18/26	stopped	0	588	0	MirroredHost [67.207.47.34]	<input type="radio"/>
pbxmt1	eth0:67.207.47.20/26	running	4 days, 07:09	28761	179	CONTROLLER [67.207.47.35]	<input type="radio"/>
pbxmt1	eth0:67.207.47.20/26	stopped	0	28761	0	MirroredHost [67.207.47.34]	<input type="radio"/>

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Select MirroredHost .34 and then Next

67.207.47.35/admin/index.php?app=serverware&sw=vpscopy&action=

SERVERware Site Settings SM Settings Help Logout

Select network:
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Move "pbxcc" VPS

Destination host: MirroredHost - 67.207.47.34

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Now you will wait for it to complete the sync process. Depending upon how much data needs to sync it may take a few minutes or it could take 20 minutes. It varies.

Once all “Controller VPSes running” have been stopped and then successfully synced (one by one), you will see only 1 appearance of each VPS (.18, .19, .20) in which you will then select them and start them (the BLUE play icon = START) one by one.

Once all of that is completed this is what you will see from the Hosts Tab.

67.207.47.35/admin/index.php?app=serverware&sw=hosts&fuie=139250849

SERVERware Site Settings SM Settings Help Logout

Select network: Default

Hosts
VPSes
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Network Hosts

Name	Host Name	Address	
CONTROLLER	Controller	67.207.47.35	
MirroredHost	Host01	67.207.47.34	

This is what the VPSes should look like in their optimal state

67.207.47.35/admin/index.php?app=serverware&sw=vpses&fuie=1108273184

SERVERware Site Settings SM Settings Help Logout

Select network: Default

Hosts
VPSes
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VPS LIST [3 of 3 VPSes]

Name	IP	Status	Uptime	Context	Processes	Host	
pbxcc	eth0:67.207.47.19/26	running	1 days, 08:07	57452	232	MirroredHost [67.207.47.34]	
pbxcc2	eth0:67.207.47.18/26	running	1 days, 08:51	588	203	MirroredHost [67.207.47.34]	
pbxmt1	eth0:67.207.47.20/26	running	1 days, 08:26	28761	274	MirroredHost [67.207.47.34]	

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Now you must turn Duplication back on. The settings should look like this, then SAVE.

The screenshot shows the Fortinet FortiManager administration interface. The browser address bar displays the URL: `67.207.47.35/admin/index.php?app=serverware&sw=settings:duplication&a`. The navigation menu includes "SERVERware", "Site Settings", "SM Settings", "Help", and "Logout". The left sidebar shows a "Select network:" dropdown set to "Default" and a menu with options: "Hosts", "VPSes", "Reports", "System", "Settings", "Networks", "Duplication" (highlighted), and "About".

The main content area is titled "Advanced Options" and contains the "Duplication destination params:" configuration. The settings are as follows:

- Short Desc.: Duplication
- Interval type: Time of day
- Hour: 3 h, Minute: 0
- Host: MirroredHost [67.207.47.34]
- Storage Host: CONTROLLER [67.207.47.35]
- Preferred Failover: CONTROLLER [67.207.47.35]
- Dupl. Dir. (Storage): /home/duplication/VPSes

At the bottom right of the configuration area, there are "Save" and "Cancel" buttons.