

# Software Raid for clones

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*Source:* <http://linux.derkeiler.com/Mailing-Lists/RedHat/2008-02/msg00047.html>

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- *From:* Darrel Barton <darrel@xxxxxxxxxxx>
  - *Date:* Mon, 11 Feb 2008 12:40:32 -0800
- 

Professionally, I deal with Proliant systems with Smartarrays ... which is to say I deal very little with the hardware interface-level stuff, it just always works. Personally I inherited this E6750 (Core 2 Duo) ASUS motherboard and wanted thought I'd build a nice server for general use. I added 4 SATA 250 Gb disc drives and after reading about the horrors & failures of the cheapie Raid controllers, I decided to try Linux software raid.

I made Raid volumes for each drive pretty much the same size as I would an ordinary drive, but all four drives. I then specified raid devices (md0 was /boot using Raid1 between drive 0 & 1) md2 was /, likewise mirrored between 0&1 while md3, 4 & 5 were RAID5 across all 4 drives. (so drives 2 & 3 each had two wasted partitions and each drive also had a regular old swap partition)

Anaconda installed Linux (RHEL4-U5-i386) and during final boot, I got a message that Raid Superblocks weren't correctly written, but it came up & ran fine. I gave it some file copying work to do while I was busy ... and I came back 2 hours later to find Linux reporting that /home was now a read-only file system (as was /usr & /var) and the system was, as they say, dead as fried chicken.

Upon reboot, I got a message from every MD partition that there were not enough available partitions for /usr /var & /home and that they each had 2 of 4 devices failed.

Repeated the steps above ... not correcting a single step ... got the same results ->> that didn't surprise me, so I'm at least partially insane.

So far, web searching has yielded (1) Asus motherboards are bad (2) Sata-nv drivers buggy (3) Sata disc drives evil (4) Forget about Raid on /boot or / (5) Linux doesn't support sata or Raid very well until RHEL5 and the ubiquitous #6 .... with me on almost any project .... that I suck as a technician, in way over my head, have so many knowledge gaps that I skipped so many crucial steps that the only wonder is that the hardware did not turn on me and try to electrocute me.

So now the questions:

- (A) Anyone see an obvious, incorrecatable flaw in the technology such as a 'known condition' given the situation? (trust me .. #6 is a universal constant)
- (B) Anyone suggest the step(s) that I missed that even a trained monkey would have noticed (be honest, I can take it)
- (C) If I just invested the \$\$ in an LSI logic or MSI (real hardware raid) controller, would all these problems just vanish?

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Today's Topics:

1. Re: Why am I seeing this? \*\* portmap server not responding  
\*\*? (Pankaj Batra)
2. how to make mirror of server on red hat 8.0 (Pankaj Batra)
3. Re: how to make mirror of server on red hat 8.0 (Romeo Theriault)
4. RE: Disk partitions and LVM limits (Tom Greaser)
5. RE: SSH Consent Banner (Mertens, Bram)
6. Keyboard layout problem in XEN virtual machine (Mertens, Bram)
7. "smbclient -L servername -N" not working (Margaret Doll)
8. RE: Disk partitions and LVM limits (Kirk Wight)

---

Message: 1

Date: Sun, 10 Feb 2008 18:24:06 +0000 (GMT)

From: Pankaj Batra <batra786@xxxxxxxxxx>

Subject: Re: Why am I seeing this? \*\* portmap server not responding  
\*\*?

To: redhat-list@xxxxxxxxxx

Message-ID: <386145.84784.qm@xxxxxxxxxxxxxxxxxxxxxxxxxx>

Content-Type: text/plain; charset=iso-8859-1

Hi Ryan.

## Try stopping portmap and xinetd service and then unexporting the export files for that  
particular IP and then restart your server and then start the service ie portmap and  
xinetd. Check logs then.

## Please check the following file also /etc/fstab on both server and client.

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Best of Luck.

redhat-list-request@xxxxxxxxx wrote:  
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1. Disk partitions and LVM limits (Peter Blajev)
2. Why am I seeing this? \*\* portmap server not responding \*\*?  
(Ryan Golhar)
3. RE: Disk partitions and LVM limits (Geoffrey Rainey)

---

Message: 1  
Date: Fri, 8 Feb 2008 10:58:56 -0800  
From: Peter Blajev  
  
Subject: Disk partitions and LVM limits  
To: Red Hat List  
Message-ID: <200802081058.56499.pblajev@xxxxxxxxx>  
Content-Type: text/plain; charset="us-ascii"

Hi,

I've got a DAS DELL MD1000 with a bunch of SATA drives in RAID 5 configuration  
with total space of 5.4TB. This box is attached to a CentOS5 system (kernel  
2.6.18-53.1.6.el5).

Any idea how to make this space usable?  
Is there a limit how big a partition can be? What is the work around?  
Is there a limit how big a file system can be?

I've tried to partition it but no matter how big partition I create fdisk  
spits out these messages on the console:

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-----  
sdb: very big device. try to use READ CAPACITY(16).  
SCSI device sdb: 10248519680 512-byte hdwr sectors (5247242 MB)  
sdb: Write Protect is off  
-----

I decided to not partition the drive and use LVM but the physical volume stopped at 2TB.

So, right now I can't use LVM because of this 2TB limit and I'm not sure if I partition the drive how good these partitions are because of the the message from fdisk.

Any help or idea is highly appreciated.

Thank you  
Peter

-----  
Message: 2  
Date: Fri, 08 Feb 2008 15:06:08 -0500  
From: Ryan Golhar  
Subject: Why am I seeing this? \*\* portmap server not responding \*\*?  
To: General Red Hat Linux discussion list  
Message-ID: <47ACB630.2050905@xxxxxxxxxx>  
Content-Type: text/plain; charset=ISO-8859-1; format=flowed

I have a server (RHEL 5) that makes 2 directories available to a bunch of clients via NFS. I keep seeing this particular message in the servers log:

Feb 8 15:02:12 sapphire kernel: portmap: server 192.168.101.164 not responding, timed out

The machine, 192.168.101.164 is a client machine that isn't even up at the moment. I remove the entry from /etc/exports for that machine and re-ran "exportfs -rv". I still see this message.

The server isn't mounting any file system or anything from the client machine. Why would I see this message on the servers logs?

Ryan

-----

## Software Raid for clones

Message: 3  
Date: Sat, 9 Feb 2008 23:42:46 +1300  
From: "Geofrey Rainey"  
Subject: RE: Disk partitions and LVM limits  
To: "General Red Hat Linux discussion list"  
Message-ID:

Content-Type: text/plain; charset="us-ascii"

You could change the sizing of the 5.4TB logical partition into smaller logical partitions  
Of 2TB in size, make each of these a physical volume and add them to a volume group, then create a logical volume from that volume group.  
I don't know if this 2TB limit will affect this procedure though.

-----Original Message-----

From: redhat-list-bounces@xxxxxxxxxxx  
[mailto:redhat-list-bounces@xxxxxxxxxxx] On Behalf Of Peter Blajev  
Sent: Saturday, 9 February 2008 7:59 a.m.  
To: Red Hat List  
Subject: Disk partitions and LVM limits

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End of redhat-list Digest, Vol 48, Issue 8  
\*\*\*\*\*

Pankaj Batra  
( TL ) iBilt Technologies Ltd.

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Message: 2  
Date: Sun, 10 Feb 2008 19:01:14 +0000 (GMT)  
From: Pankaj Batra <[batra786@xxxxxxxxxx](mailto:batra786@xxxxxxxxxx)>  
Subject: how to make mirror of server on red hat 8.0  
To: [redhat-list@xxxxxxxxxx](mailto:redhat-list@xxxxxxxxxx)  
Message-ID: <[842539.17699.qm@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:842539.17699.qm@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>  
Content-Type: text/plain; charset=iso-8859-1

Hi techies..  
Please can anyone guide me how to make mirror of server on red hat 8.0. I have IBM eseries  
server with RAID 5 configured with 4 SCSI drives.  
I wanna make to make mirror of it on similar server.  
So that at time of any kinde of crash I can use the mirror and data and time can be saved.

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Regards & Thanks.

Pankaj Batra  
( TL ) iBilt Technologies Ltd.

-----  
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-----

Message: 3  
Date: Sun, 10 Feb 2008 16:28:35 -0500  
From: "Romeo Theriault" <romeotheriault@xxxxxxxx>  
Subject: Re: how to make mirror of server on red hat 8.0  
To: "General Red Hat Linux discussion list" <redhat-list@xxxxxxxx>  
Message-ID:  
<46cd475b0802101328p2618e2d2n4fdbd1b6789dbe0e@xxxxxxxxxxxxxxxx>  
Content-Type: text/plain; charset=ISO-8859-1

These two have worked well for me in the past.

clonezilla live - <http://clonezilla.sourceforge.net/clonezilla-live/>  
g4u - <http://www.feyrer.de/g4u/>

Romeo

On Feb 10, 2008 2:01 PM, Pankaj Batra <batra786@xxxxxxxx> wrote:

> Hi techies..  
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> on red hat 8.0. I have IBM eseries server with RAID 5 configured with 4  
> SCSI drives.  
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>

--  
Romeo Theriault  
System Administrator  
Information Technology Services  
Ph#: 207-561-3517  
Em@: romeo.theriault@xxxxxxxxxx

-----  
Message: 4  
Date: Sun, 10 Feb 2008 17:05:49 -0500  
From: "Tom Greaser" <tgreaser@xxxxxxxxxx>  
Subject: RE: Disk partitions and LVM limits  
To: <redhat-list@xxxxxxxxxx>  
Message-ID: <47AF2EED.34C4.0040.3@xxxxxxxxxx>  
Content-Type: text/plain; charset=UTF-8

If you man fdisk  
fdisk doesn't understand GUID Partition Table (GPT) and it is not  
designed for large partitions. In particular case use more  
advanced GNU  
parted(8).

try parted and let use know if that works.. im coming up on a large BOD  
setup soon

Message: 3  
Date: Sat, 9 Feb 2008 23:42:46 +1300  
From: "Geoffrey Rainey" <Geoffrey.Rainey@xxxxxxxxxx>  
Subject: RE: Disk partitions and LVM limits  
To: "General Red Hat Linux discussion list" <redhat-list@xxxxxxxxxx>  
Message-ID:  
<FCFF2EC7A020964FBC98B17F17A88AC453D246@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>  
Content-Type: text/plain; charset="us-ascii"

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Sent: Saturday, 9 February 2008 7:59 a.m.  
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\*\*\*\*\*

-----  
Message: 5

Date: Mon, 11 Feb 2008 11:07:12 +0100

From: "Mertens, Bram" <mertensb@xxxxxxxxxxxx>

Subject: RE: SSH Consent Banner

To: "General Red Hat Linux discussion list" <redhat-list@xxxxxxxxxx>

Message-ID:

<E4763D73EF6E4848853562C30CA5A9AF012791BE@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

Content-Type: text/plain; charset="us-ascii"

Doesn't pressing CTRL+C get you out of this? In that it stops processing the script but still lets you log in.

Regards

Bram

>

Mazda Motor Logistics Europe NV, Blaasveldstraat 162, B-2830 Willebroek  
VAT BE 406.024.281, RPR Mechelen, ING 310-0092504-52, IBAN : BE64 3100 0925  
0452, SWIFT : BBRUBEBB

-----Original Message-----

> From: redhat-list-bounces@xxxxxxxxxx

> [<mailto:redhat-list-bounces@xxxxxxxxxx>] On Behalf Of Paul Whitney

> Sent: zaterdag 2 februari 2008 2:07

> To: General Red Hat Linux discussion list

> Subject: Re: SSH Consent Banner

>

> Actually, this worked for me. I created a separate script

> that is called

> within /etc/bashrc. This is what happens. It is probably

> considered crude,

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```
> but it works for me. Please let me know if there is a flaw in
> this approach.
>
> Thanks.
>
> Paul
>
> HOSTNAME=`hostname`
> GREET=`cat /etc/issue`
> echo $GREET
> echo "Do you agree to this consent? [Y/N]"
> read answer
>
> case $answer in
>
> Y|y)
> echo "Welcome to $HOSTNAME."
> ;;
>
> N|n)
> echo "Goodbye."
> sleep 2
> PID=`ps -ef | grep ssh_test_1 | awk ' {print $3} `^
> kill -9 $PID
> ;;
>
> *)
> echo "Goodbye. Try SSH again"
> echo "You Must enter a Y or a N "
> sleep 2
> PID=`ps -ef | grep ssh_test_1 | awk ' {print $3} `^
> kill -9 $PID
> ;;
>
> esac
>
>
>
> On 2/1/08 7:21 PM, "Nikolas Lam"
> <nlam87346@xxxxxxxxxxxxxxxxxxxx> wrote:
>
>>
>>
>>> On Fri, 2008-02-01 at 11:08 -0500, Paul Whitney wrote:
>>> Can someone tell me how to configure SSHD to present a
>>> yes/no prompt? My
>>> system currently is configured to present a consent
>>> banner, but it does not
>>> require users to agree to the consent. Any help is appreciated.
>>>
>>> Paul W.
```

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>>>  
>>>  
>>  
>> Not sure how to do exactly that, but you could just present  
> something  
>> using  
>>  
>> Banner /etc/ssh\_issue  
>>  
>> in /etc/ssh/sshd\_config. This will print the contents of  
> /etc/ssh\_issue  
>> just before putting in their passwords. In it you could  
> say, entering  
>> your password is agreeing to your terms and conditions.  
>>  
>> Once they log in, they'll also by default get the system's /etc/motd  
>>  
>>  
>> N.  
>>  
>>  
>  
>  
> --  
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> <https://www.redhat.com/mailman/listinfo/redhat-list>  
>

---

Message: 6  
Date: Mon, 11 Feb 2008 11:27:30 +0100  
From: "Mertens, Bram" <mertensb@xxxxxxxxxxxx>  
Subject: Keyboard layout problem in XEN virtual machine  
To: "General Red Hat Linux discussion list" <redhat-list@xxxxxxxxxx>  
Message-ID:  
<E4763D73EF6E4848853562C30CA5A9AF012791D0@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>  
Content-Type: text/plain; charset="us-ascii"

Hi

My office uses a number of Windows-only tools which is forcing me to reboot into Windows several times a day. To avoid this I'd like to set up a virtual machine (using XEN) so I can run those tools in it.

After struggling to get Windows XP to install (halfway during the installation it forces a restart and after this it wouldn't find the CD) I discovered that even though all the keyboard and language settings are

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in XP the keyboard layout is still wrong. We use azerty keyboards and I have configured the virtual machine as such but \*after the installation\* the keyboard is interpreted as querty. I stress \*after the installation\* because somewhere during the installation you can change the keyboard layout – which I did – and after that the keyboard layout was interpreted correctly by the installation program.

How can I configure the virtual machine to recognize my keyboard as azerty (be–latin1)?

Regards

Bram

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VAT BE 406.024.281, RPR Mechelen, ING 310–0092504–52, IBAN : BE64 3100 0925  
0452, SWIFT : BBRUBEBB

-----  
Message: 7

Date: Mon, 11 Feb 2008 09:27:01 –0500

From: Margaret Doll <Margaret\_Doll@xxxxxxxx>

Subject: "smbclient –L servername –N" not working

To: samba <samba@xxxxxxxxxxxxxxxx>, General Red Hat Linux discussion  
list <redhat–list@xxxxxxxx>

Message–ID: <BE07593D–7D9C–4244–A96C–869ACC752E20@xxxxxxxx>

Content–Type: text/plain; charset=US–ASCII; format=flowed; delpsp=yes

I would appreciate any ideas on how to correct the problem that we are having that is outlined below. Thanks for your help.

I have been running samba for a long time. Currently we are having problems with it filling up /var/log/messages with

```
Feb 7 10:45:02 servername smbd[2157]: Can't become connected user!  
Feb 7 10:45:02 servername smbd[2158]: [2008/02/07 10:45:02, 0] smbd/  
service.c:make_connec  
tion_snum(928)
```

In doing the list of checks on samba and nmbd, I find that only

```
smbclient –L servername –N  
Anonymous login successful  
Domain=[DEPT] OS=[Unix] Server=[Samba 3.0.25b–1.e14_6.4]  
tree connect failed: NT_STATUS_LOGON_FAILURE
```

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doesn't work.

```
smbclient -L servername -U username
```

works fine.

```
rpm -aq | grep samba
samba-common-3.0.25b-1.el4_6.4
samba-client-3.0.25b-1.el4_6.4
system-config-samba-1.2.21-1.el4.1
samba-3.0.25b-1.el4_6.4
samba-swat-3.0.25b-1.el4_6.4
```

```
uname -r
2.6.9-67.0.1.ELsmp
```

Our guest account, chemug in samba, cannot log into the system.  
Regular accounts on samba are having no  
problems connecting to and printing through our server.

```
more smb.conf
# Global parameters
```

```
[global]
workgroup = DEPT
```

```
netbios name = servername
server string = servername - DEPT Samba Server
interfaces = 128.148.nn.nn/24 127.0.0.1
```

```
security = user
smb passwd file = /etc/samba/smbpasswd
```

```
log file = /var/log/samba/log.%m
max log size = 50
socket options = TCP_NODELAY SO_RCVBUF=8192 SO_SNDBUF=8192
dns proxy = yes
os level = 255
preferred master = yes
```

```
domain master = yes
# Added 1/7/06
local master = yes
wins proxy = no
wins support = yes
```

```
# Added 9/06
password server = yes
```

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```
#
# Added to reduce network traffic
name resolve order = host wins bcast

remote announce = 128.148.nn.255/DEPT 128.148.mmm.255/DEPT
128.148.ooo.255/DEPT 128.148.ppp.255/DEPT 128.148.qqq.255/DEPT

invalid users = bin daemon sys adm tty disk lp mem kmem wheel mail
news uucp m
an games gopher dip ftp floppy utmp xfs console pppusers popusers
slipusers slocate gd
m filesystem root
valid users = @deptusers @dept2users @users @stockroom @guest
username map = /etc/samba/smbusers
domain logons = yes
guest ok = yes

guest account = chemug
hosts allow = 128.148.mmm. 128.148.nn. 128.148.ooo. 128.148.ppp.
128.148.qqq.
128.148.rrr.31 128.148.rrr.10 127.
dos filetimes = Yes
dos filetime resolution = Yes
## Changes for cups
load printers = yes
printing = cups
printcap name = /etc/printcap

# Helps to eliminate "Access Denied"
# on Windows NT, 2000, and XP
#
password server = None
use client driver = yes

# Add 9/06

disable spoolss = yes

[homes]
comment = Home Directories
writeable = yes
[printers]
comment = All Printers
path = /var/spool/samba
guest ok = Yes
printable = Yes

[1-Mac]
comment = Distributed Software for MacIntoshes
path = /chemusers/1-Mac
volume = Utilities for MacIntoshes
```

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```
guest ok = yes
[1-Win]
comment = Distributed Software for Windows
path = /chemusers/1-Win
volume = Utilities for Window Computers
guest ok = yes
```

```
[Milling]
comment = Contains the drop boxes for Milling requests
path = /chemusers/milling
volume = Milling Drop Box
writeable = yes
valid users = @chemusers
force group = chemusers
```

```
[Stockroom]
comment = Database for the Stockroom Applications
path = /home/stockroom
volume = Database for the Stockroom
valid users = @stockroom
writeable = yes
create mask = 660
directory mask = 0770
```

```
netstat -nlp | grep LISTEN| grep -v LISTENING
```

```
tcp 0 0 0.0.0.0:905
0.0.0.0:* LISTEN 4115/rpc.statd
```

```
tcp 0 0 0.0.0.0:781
0.0.0.0:* LISTEN 4418/rpc.mountd
tcp 0 0 0.0.0.0:111
0.0.0.0:* LISTEN 4095/portmap
```

```
tcp 0 0 0.0.0.0:445
0.0.0.0:* LISTEN 29710/smbd
tcp 0 0 0.0.0.0:767
0.0.0.0:* LISTEN 4403/rpc.rquotad
```

---

```
Message: 8
Date: Mon, 11 Feb 2008 11:53:52 -0500
From: Kirk Wight <kirk@xxxxxxxxxxxx>
Subject: RE: Disk partitions and LVM limits
To: "redhat-list@xxxxxxxxxxxx" <redhat-list@xxxxxxxxxxxx>
Message-ID: <C3D5E7D0.10168%kirk@xxxxxxxxxxxx>
Content-Type: text/plain; charset="ISO-8859-1"
```

## Software Raid for clones

Hi Peter,

I'm also running a Dell MD1000 in RAID5 on a CentOS system (4.6), with LVM on ext3.

I never came across a 2TB limit or your particular errors... I had one 1.4TB LVM volume which I extended into the 3.6TB of the MD1000, for one large 5TB LVM volume (mounted on root). The only problem I had was getting the driver loaded at boot time (solved with a new initrc). I hope this helps...

Kirk

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Kirk Wight

Administrateur de systèmes / Systems Administrator

kirk@xxxxxxxxxxx

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No virus found in this incoming message.

Checked by AVG Free Edition.

Version: 7.5.516 / Virus Database: 269.20.2/1271 – Release Date: 2/11/2008 8:16 AM

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