

SUMMARY: Veritas VxVM on X2100 giving "disk.repl: -1 bad number"

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- *From:* <mark_round@xxxxxxxxxxxx>
 - *Date:* Thu, 17 May 2007 17:38:29 +0100
-

I managed to fix this. If anyone has this problem again, the problem was that /usr/lib/vxvm/voladm.d/bin/disk.repl uses /sbin/sh, but it seems to use something that plain Bourne shell doesn't like. I changed the shebang at the top to use /usr/bin/bash (presumably other shells would work as well), and it started working!

-Mark

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

From: Round, Mark - CALM Technical <Mark_Round@xxxxxxxxxxxx>
Sent: 09 May 2007 10:40
To: sunmanagers@xxxxxxxxxxxxxx
Subject: Veritas VxVM on X2100 giving "disk.repl: -1 bad number"

Hi all,

I have a problem with Veritas Volume Manager (VxVM). I'm using Storage Foundation 4.1 on a sun X2100, 5.10 Generic_118855-33. It is connected to a Compaq StorageWorks JBOD via Dual HBA, I can't remember the manufacturer of the HBA but I assume it is Qlogic. I downloaded the volume manager direct from Symantec, it's not a SUN-branded one. See below for diagnostic output etc.

The problem arises when I try to replace a faulty disk. I was testing the procedure (getting up to speed on 4.1, the last VxVM stuff I did was on 3.x), so created a RAID 5 volume (although this problem happens on any kind of volume) and simulated a disk failure by removing one of the drives. I then used vxdiskadm and selected the drive to be removed for replacement. So far, so good.

I then replaced it with a fresh disk, fdisk'ed it and ran vxctl enable. I then went back into vxdiskadm (option 5), and this is what I saw :

Replace a failed or removed disk
Menu: VolumeManager/Disk/ReplaceDisk
Use this menu operation to specify a replacement disk for a disk

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that you removed with the "Remove a disk for replacement" menu operation, or that failed during use. You will be prompted for a disk name to replace and a disk device to use as a replacement. You can choose an uninitialized disk, in which case the disk will be initialized, or you can choose a disk that you have already initialized using the Add or initialize a disk menu operation.

Select a removed or failed disk [<disk>,list,q,?] list

Disk group: datadg

DM NAME DEVICE TYPE PRIVLEN PUBLEN STATE

dm datadg12 - - - - REMOVED

Select a removed or failed disk [<disk>,list,q,?] datadg12

/usr/lib/vxvm/voladm.d/bin/disk.repl: -1: bad number

And then it bombs back to the main menu... I can't get past this error – whatever I try, it just bombs out with the "disk.repl: -1: bad number" error. Everything else I have tried seems fine, I just can't replace a failed disk!

Has anyone any suggestions on what I may be doing wrong, or what the issue may be ? I will of course summarize any responses or advice received...

Many thanks in advance,

–Mark

```
$ modinfo | grep -i vx
49 ffffffff3a1f000 299d8 207 1 vxdmp (VxVM 4.1_p3.1 + e430808 DMP
Dri)
68 ffffffff3ae4000 1f8468 208 1 vxio (VxVM 4.1_p3.1 I/O driver)
69 ffffffff3cbc000 1458 209 1 vxspec (VxVM 4.1_p3.1
control/status dr)
172 ffffffff40db5e8 be0 210 1 vxportal (VxFS
4.1_REV-4.1x86p2A8_sol por)
173 ffffffff420b000 1856f8 20 1 vxfs (VxFS 4.1_REV-4.1x86p2A8_sol
Sun)
```

vxprint below :

```
# dg datadg default default 61000
1178116019.58.devhost-5.ipcmedia.com
dm datadg01 c3t0d0s2 auto 2048 71069248 -
dm datadg02 c3t1d0s2 auto 2048 71069248 -
dm datadg03 c3t3d0s2 auto 2048 71069248 -
dm datadg04 c3t4d0s2 auto 2048 71069248 -
dm datadg05 c3t5d0s2 auto 2048 71069248 -
dm datadg06 c3t8d0s2 auto 2048 71069248 -
```

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```
dm datadg07 c4t1d0s2 auto 2048 71069248 -
dm datadg08 c4t2d0s2 auto 2048 71069248 -
dm datadg09 c4t3d0s2 auto 2048 71069248 -
dm datadg10 c4t4d0s2 auto 2048 71069248 -
dm datadg11 c4t8d0s2 auto 2048 71069248 -
dm datadg12 - - - - REMOVED
v data - DISABLED ACTIVE 142137344 RAID -
raid5
pl data-01 data DISABLED ACTIVE 142137344 RAID 3/32
RW
sd datadg01-01 data-01 datadg01 0 71068672 0/0 c3t0d0
ENA
sd datadg02-01 data-01 datadg02 0 71068672 1/0 c3t1d0
ENA
sd datadg12-01 data-01 datadg12 0 71068672 2/0 -
RMOV
```

And, here's the vxdiskadm list output :

DEVICE DISK GROUP STATUS

```
c1t0d0 - - online invalid
c2t0d0 - - online invalid
c3t0d0 datadg01 datadg online
c3t1d0 datadg02 datadg online
c3t3d0 datadg03 datadg online
c3t4d0 datadg04 datadg online
c3t5d0 datadg05 datadg online
c3t8d0 datadg06 datadg online
c4t0d0 - - online invalid
c4t1d0 datadg07 datadg online
c4t2d0 datadg08 datadg online
c4t3d0 datadg09 datadg online
c4t4d0 datadg10 datadg online
c4t8d0 datadg11 datadg online
```

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