
Subject: LVM checksum problem after yum update from CentOS 5.9 to CentOS 5.10 (w/o vzkernel update)

Posted by [ccto](#) on Thu, 30 Jan 2014 20:52:51 GMT

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Hello OpenVZ support,

In one server, it is running CentOS 5.9 with vz kernel 2.6.18-348.16.1.el5.028stab108.1

It contains mdadm RAID-1 arrays (consist of 3 HDD to form RAID-1) -

/dev/md0 = /boot (mdadm = sda1 + sdb1 + sdc1)

/dev/md1 = LVM (PV + VolGroup + LogVols for / , /tmp , /vz , swap) (mdadm = sda2 + sdb2 + sdc2)

A few days ago, I found you have released the updated CentOS 5 template (which is 5.10)

Then, I guess the vzkernel shall run fine in CentOS 5.10 host and guest level.

So, I run "yum update" to update the server from 5.9 to 5.10
(but the vz kernel the same, no update required in yum)

The yum runs successfully without error.

Then, I reboot the server, everything seems fine.

However, a few hours later, it tries to create LVM snapshot for scheduled backup. It fails to create the LVM snapshot, and raise the error -

/dev/md1: Checksum error

Then, I tried to look, the LVM PV mounts on /dev/sdc2 , not /dev/md1

and pvdisplay shows something like -

checksum error

use /dev/sdc2, and found the same/duplicated UUID on /dev/md1

Then, I power off the server, unmount /dev/sdc , and add a new HDD, boot into CentOS Setup rescue mode, run fsck.ext4 (foruntately it has no problem), and run mdadm raid recovery with the new HDD

Then, reboot, and goto CentOS setup rescue mode, it can automatically mount /mnt/sysimage , I chroot, and run mkinitrd to rebuild the /boot/initrd-xxxx.img

Then, reboot the server normally, it seems it can run again as usual (of course raid is in recovery process).

in RHEL 5.10 release notes, it mentions updated LVM and duplicated UUID in BZ#863112

ref.: https://access.redhat.com/site/documentation/en-US/Red_Hat_Enterprise_Linux/5/html-single/5.10_Technical_Notes/index.html

I am not sure it cause it or not, but it do happen after I upgrade the server within 8 hours

I suspect that when I run the yum update (without vzkernel update), it does not run mkinitrd automatically to include/build latest lvm library/configuration during boot, and cause the problem.

May you please kindly have a look/advise.

Thank you for your kind attention.

Regards
George
