
Subject: OpenVZ and Linux md software raid sync slow

Posted by [ccto](#) on Sun, 17 Jan 2010 02:17:58 GMT

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Hello all,

We have multiple OpenVZ server running with x86 and x64 OS.

We notice that when a server crashed, or somehow the Linux md raid requires re-sync.

RAID 10, 4 x 500GB HDD to form a 1TB storage.

Under a OpenVZ kernel (e.g. 2.6.18-164.2.1.el5.028stab066.10ent), it takes a long time (e.g. 30 hours) to sync (speed is around 8000KB/sec)

```
# cat /proc/mdstat
Personalities : [raid10]
md0 : active raid10 sde1[3] sdd1[2] sdc1[1] sdb1[0]
      976767872 blocks 64K chunks 2 near-copies [4/4] [UUUU]
      [==>.....] resync = 12.3% (120280320/976767872) finish=1717.1min
      speed=8311K/sec
```

unused devices: <none>

```
# mdadm --detail /dev/md0
/dev/md0:
  Version : 0.90
  Creation Time : Wed Jun 24 00:45:22 2009
  Raid Level : raid10
  Array Size : 976767872 (931.52 GiB 1000.21 GB)
  Used Dev Size : 488383936 (465.76 GiB 500.11 GB)
  Raid Devices : 4
  Total Devices : 4
  Preferred Minor : 0
  Persistence : Superblock is persistent

  Update Time : Sun Jan 17 10:18:40 2010
  State : clean, resyncing
  Active Devices : 4
  Working Devices : 4
  Failed Devices : 0
  Spare Devices : 0

  Layout : near=2
  Chunk Size : 64K
```

Rebuild Status : 12% complete

UUID : 30f591b0:103cd46e:8c413dd3:256197d0
Events : 0.8914

Number	Major	Minor	RaidDevice	State
0	8	17	0	active sync /dev/sdb1
1	8	33	1	active sync /dev/sdc1
2	8	49	2	active sync /dev/sdd1
3	8	65	3	active sync /dev/sde1

If we reboot the machine into a Linux standard kernel to restart the resync process , it takes around 2 hours (re-sync speed is around 100MB/sec).

It happens a few times already on both x86 or x64 Linux and OpenVZ kernel.

Also, the CT under the OpenVZ container is very idle, those CT's LAVERAGE is nearly 0.

For production machines, we need to let the CT online, so online resync, and wait for a long time.

Is there any parameter(s) that we can adjust? or like host I/O etc. Please help

Thank you very much for your kind attention.

Regards

George
