Subject: Kernel 028stab059.6(PAE) with RAID1 and LVM [SOLVED]
Posted by gjanssens on Tue, 09 Dec 2008 11:25:32 GMT
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Hi,

I have setup an ovz server on which the root filesystem is on an LVM2 volume on top of a RAID1 configuration. The latest stable kernel (2.6.18-92.1.13.el5.028stab059.6) won't boot this system. It panics for not finding the root partition.

The previous kernel (2.6.18-92.1.13.el5.028stab059.3) has no problems with this.

I tried both normal and PAE kernels. The system comes with 8Gb of RAM, so I normally run PAE. I tested both to be sure the problem was not PAE related.

To me this seems like a bug creating the initrd during the new kernel install. I have searched the forum, wiki and bugzilla, but I didn't find any more info on this.

How can I solve this ?

Thank you.

Subject: Re: Kernel 028stab059.6(PAE) with RAID1 and LVM
Posted by gjanssens on Tue, 09 Dec 2008 11:38:52 GMT
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I have also created a bugreport for this problem:
http://bugzilla.openvz.org/show_bug.cgi?id=1111

Subject: Re: Kernel 028stab059.6(PAE) with RAID1 and LVM
Posted by gjanssens on Sun, 15 Mar 2009 15:35:25 GMT
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It took me a while but I finally found what was wrong. Following the suggestion on the bugreport I compared a working initrd with a failing one.

It turns out that on the failing one I was missing a kernel module (sata_nv). I'm not sure how it is possible this module was in the one initrd and not in the other. Both of the initrd's were automatically created during a kernel installation.

But on the other hand later plain centos kernel installs had the same problem, so it's safe to assume the problem wasn't openvz specific.

The fix: I have added an entry for sata_nv in /etc/modprobe.conf and recreated the failing initrd's.