
Subject: Re: ovzkernels not booting - where to look first

Posted by [ugob](#) on Wed, 01 Aug 2007 19:38:24 GMT

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finist wrote on Wed, 01 August 2007 09:33Hello Ugo,

1) can you please check that the processor supports the PAE?

```
# cat /proc/cpuinfo
```

```
...
flags      : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush
mmx fxsr sse sse2 syscall nx mmxext lm 3dnowext 3dnow pni
...
```

e.g. 'pae' flag should present.

```
flags      : fpu vme de pse tsc msr pae mce cx8 apic mtrr pge mca cmov pat pse36 mmx fxsr
sse pni syscall mp mmxext 3dnowext 3dnow
```

So it looks OK.

finist wrote on Wed, 01 August 2007 09:33

2) it may be initrd related issue. are you sure that initrd image for new kernel has been created correctly?

Could you please check the /etc/grub.conf (or lilo.conf if you are using lilo). There should be an entry for the newly installed ovzkernel-PAE-2.6.18-8.1.8.el5.028stab039.1

Do those files mentioned in 'kernel' and 'initrd' sections exist in /boot? Could you please try to recreate initrd file using the following command? Are there any errors reported?

```
# mkinitrd -v -f /boot/initrd-2.6.18-8.1.8.el5.028stab039.1PAE.img
2.6.18-8.1.8.el5.028stab039.1PAE
```

All files are there. I tried recreating the file like you suggested, no error.

Creating initramfs

Looking for deps of module scsi_mod

Looking for deps of module sd_mod scsi_mod

Looking for deps of module scsi_mod

Looking for deps of module unknown

Looking for deps of module 3w-xxxx scsi_mod

Looking for deps of module scsi_mod

Looking for deps of module ide-disk

Looking for deps of module ext3 jbd

Looking for deps of module jbd

Using modules: ./kernel/drivers/scsi/scsi_mod.ko ./kernel/drivers/scsi/sd_mod.ko

./kernel/drivers/scsi/3w-xxxx.ko ./kernel/fs/jbd/jbd.ko ./kernel/fs/ext3/ext3.ko

/sbin/nash -> /tmp/initrd.n19895/bin/nash

```
/sbin/insmod.static -> /tmp/initrd.n19895/bin/insmod
/sbin/udev.static -> /tmp/initrd.n19895/sbin/udev
/etc/udev/udev.conf -> /tmp/initrd.n19895/etc/udev/udev.conf
copy from
/lib/modules/2.6.18-8.1.8.el5.028stab039.1PAE/./kernel/drivers/scsi/scsi_mod.ko(elf32-i386) to
/tmp/initrd.n19895/lib/scsi_mod.ko(elf32-i386)
copy from
/lib/modules/2.6.18-8.1.8.el5.028stab039.1PAE/./kernel/drivers/scsi/sd_mod.ko(elf32-i386) to
/tmp/initrd.n19895/lib/sd_mod.ko(elf32-i386)
copy from
/lib/modules/2.6.18-8.1.8.el5.028stab039.1PAE/./kernel/drivers/scsi/3w-xxxx.ko(elf32-i386) to
/tmp/initrd.n19895/lib/3w-xxxx.ko(elf32-i386)
copy from /lib/modules/2.6.18-8.1.8.el5.028stab039.1PAE/./kernel/fs/jbd/jbd.ko(elf32-i386) to
/tmp/initrd.n19895/lib/jbd.ko(elf32-i386)
copy from /lib/modules/2.6.18-8.1.8.el5.028stab039.1PAE/./kernel/fs/ext3/ext3.ko(elf32-i386) to
/tmp/initrd.n19895/lib/ext3.ko(elf32-i386)
Loading module scsi_mod
Loading module sd_mod
Loading module 3w-xxxx
Loading module jbd
Loading module ext3
```

finist wrote on Wed, 01 August 2007 09:33

Quote:Could you please try to install RHEL5/CentOs5 kernel on the node?

Well, could you try to install a stock kernel from CentOS 5 and boot in it?

For example that one: <http://isoredirect.centos.org/centos/5/updates/i386/RPMS/kernel-PAE-2.6.18-8.1.8.el5.i686.rpm>

```
Can't install:[root@bibitte ~]# rpm -ivhf kernel-PAE-2.6.18-8.1.8.el5.i686.rpm
warning: kernel-PAE-2.6.18-8.1.8.el5.i686.rpm: V3 DSA signature: NOKEY, key ID e8562897
error: Failed dependencies:
  initscripts >= 8.11.1-1 is needed by kernel-PAE-2.6.18-8.1.8.el5.i686
  mkinitrd >= 4.2.21-1 is needed by kernel-PAE-2.6.18-8.1.8.el5.i686
  ppp < 2.4.3-3 conflicts with kernel-PAE-2.6.18-8.1.8.el5.i686
  e2fsprogs < 1.37-4 conflicts with kernel-PAE-2.6.18-8.1.8.el5.i686
  procps < 3.2.5-6.3 conflicts with kernel-PAE-2.6.18-8.1.8.el5.i686
  udev < 063-6 conflicts with kernel-PAE-2.6.18-8.1.8.el5.i686
  iptables < 1.3.2-1 conflicts with kernel-PAE-2.6.18-8.1.8.el5.i686
```

It is quite troubling, that, according to the sysadmin at the colocation facility, even the -smp kernel, which was running fine before the upgrade, doesn't boot anymore...

finist wrote on Wed, 01 August 2007 09:33

3) If all of this won't work, please, try to attach a serial console to the node or at least KVM. This

will allow us to collect the boot logs or at least to see the last messages. If you are going to the colocation facility, please, take a photo with you and take a photo of a screen of a hanged node. If we are lucky the last messages can contain useful information.

http://wiki.openvz.org/Remote_console_setup

Hmmm, I don't have my digital camera with me, only my cell. Not sure if I have a null modem cable. I'll see. I will have, for sure, a paper notepad, and a pen .

Thanks!
