
Subject: *SOLVED* Kernel install problem
Posted by [dagr](#) on Tue, 19 Sep 2006 13:07:29 GMT
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I tried ovzkernel-smp-2.6.9-023stab016.2.i686.rpm on several hosts and it was ok, until i tried it on the production one which uses SCSI AIC7xxx

```
diskdumplib      4940  0 [aic7xxx]
sd_mod           13968 12
scsi_mod         106924 3 [sr_mod sg aic7xxx sd_mod]
```

its RHEL3 (i already tried it on another RHEL3 and all was ok), but this time i got:

```
[dagr@ws-ca openvz]$ sudo rpm -ivh ovzkernel-smp-2.6.9-023stab016.2.i686
.rpm
warning: ovzkernel-smp-2.6.9-023stab016.2.i686.rpm: V3 DSA signature: NOKEY, key
ID a7a1d4b6
Preparing...      ##### [100%]
 1:ovzkernel-smp  ##### [100%]
No module aic7xxx found for kernel 2.6.9-023stab016.2-smp, aborting.
mkinitrd failed
error: %post(ovzkernel-smp-2.6.9-023stab016.2) scriptlet failed, exit status 1
```

////////////////////////////////////

i checked /boot dir - and saw that it created kernels but not initrd file and also left intact grub.conf

////////////////////////////////////

i tried to compile it manually

downloaded src rpm ovzkernel-2.6.9-023stab016.2.src.rpm
substituted kernel-2.6.9-023stab016-i686-smp.config.ovz instead of .config. Made make menuconfig - changed aic7xxx new and old to M and saved. Then i run `make bzImage` and finally got this

```
arch/i386/power/built-in.o(.text+0x1cd): In function `swsusp_arch_resume':
: undefined reference to `swsusp_pg_dir'
make: *** [.tmp_vmlinux1] Error 1
```

So i gave up for now and want to ask - how to fix it?

Also can you give me link to simple howto - how to build binary rpm - from compiled kernel and kernel-ovz.spec file which you share with src rpm.

Subject: Re: Kernel install problem
Posted by [Vasily Tarasov](#) on Tue, 19 Sep 2006 13:29:01 GMT

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The problem is that this driver is compiled in OpenVZ kernel. mkinitrd doesn't find module and complains on it...

Can you tell me distribution you use, please?

At the moment you can create initrd manually specifying
--builtin=builtin=module.

However this seems to be bug in mkinitrd and i'm waiting for your answer about distribution.

As concerns compiling from src. I'll check it tomorrow.

HTH,
vass.

Subject: Re: Kernel install problem
Posted by [dagr](#) on Tue, 19 Sep 2006 15:35:08 GMT
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Red Hat Enterprise Linux ES release 3 (Taroon Update 6)

Subject: Re: Kernel install problem
Posted by [vaverin](#) on Tue, 19 Sep 2006 19:50:18 GMT
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RHEL3 is 2.4 based distribution and do not support 2.6 kernels. I would like to recommend you to reinstall 2.6 based distribution on the node (RHEL4u4 or CentOS 4.4).

If you wish to work on RHEL3 distribution you should update your modutils package, original version cannot work with 2.6 modules.

You can take modutils from FC2 distribution -- it has dual kernel support (both 2.6 and 2.4 kernels).

Without modutils update you will be able to load 2.6 kernel (without any initrd), but you will not be able to load any modules.

Subject: Re: Kernel install problem
Posted by [dagr](#) on Wed, 20 Sep 2006 06:17:08 GMT
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i know about modutils - updated them up to modutils-2.4.26-16.i386.rpm (from fedora). Like i said i tried this kernel on another host with RHEL3 and updated modutils and all was ok

Subject: Re: Kernel install problem
Posted by [vaverin](#) on Wed, 20 Sep 2006 06:45:40 GMT
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Ok, thank you.
In this case I think you should be able to boot 2.6 kernel without initrd. Are you tried to do it?

Subject: Re: Kernel install problem
Posted by [dagr](#) on Wed, 20 Sep 2006 07:30:58 GMT
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i just made mkinitrd --builtin=aic7xxx manually and reboot was ok, later i found out that more simple way is comment out aic7xxx line in modules.conf before installing rpm , i tried it and rpm install went smooth , although initrd images size were slightly different in these cases. Anyway i was able to boot with new kernel both times. scsi and Gb interfaces drivers seems ok.
