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Subject: software raid on Fedora core 6 and OpenVZ  
Posted by [jean1971](#) on Mon, 20 Nov 2006 11:27:47 GMT  
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Hi there  
I tried the last kernel on FC6  
It works fine, but I can't manage software RAID

any suggestion  
(with a FC6 kernel it works !!)

Thanks  
Gianni

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Subject: Re: software raid on Fedora core 6 and OpenVZ  
Posted by [Vasily Tarasov](#) on Mon, 20 Nov 2006 12:04:19 GMT  
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What openVZ kernel version do you use?

Thanks!

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Subject: Re: software raid on Fedora core 6 and OpenVZ  
Posted by [jean1971](#) on Mon, 20 Nov 2006 13:17:42 GMT  
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here you are...

```
title OpenVZ (2.6.18-ovz028test003.1-smp)
    root (hd0,1)
    kernel /vmlinuz-2.6.18-ovz028test003.1-smp ro root=LABEL=/
    initrd /initrd-2.6.18-ovz028test003.1-smp.img
```

I know is a testing version.... but I think this is a bug or a missing feature.  
since...

```
title Fedora Core (2.6.18-1.2849.fc6)
    root (hd0,1)
    kernel /vmlinuz-2.6.18-1.2849.fc6 ro root=LABEL=/
    initrd /initrd-2.6.18-1.2849.fc6.img
```

works

thanks...  
Gianni

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Subject: Re: software raid on Fedora core 6 and OpenVZ  
Posted by [rickb](#) on Mon, 20 Nov 2006 13:46:44 GMT  
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Quote: I can't manage software RAID

Whats the specific error?  
What mdadm arguments are you running?  
Output of /proc/mdstat  
dmesg  
fdisk -l

Send us more details so we can understand your situation.

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Subject: Re: software raid on Fedora core 6 and OpenVZ  
Posted by [jean1971](#) on Mon, 20 Nov 2006 14:08:25 GMT  
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If I try

```
mdadm --create --verbose /dev/md0 --level=5 --raid-devices=4 /dev/sdc /dev/sdd /dev/sde  
/dev/sdf
```

I have this error:

```
mdadm: layout defaults to left-symmetric  
mdadm: chunk size defaults to 64K  
mdadm: /dev/sdc appears to be part of a raid array:  
level=raid5 devices=4 ctime=Mon Nov 20 14:48:46 2006  
mdadm: /dev/sdd appears to be part of a raid array:  
level=raid5 devices=4 ctime=Mon Nov 20 14:48:46 2006  
mdadm: /dev/sde appears to be part of a raid array:  
level=raid5 devices=4 ctime=Mon Nov 20 14:48:46 2006  
mdadm: /dev/sdf appears to be part of a raid array:  
level=raid5 devices=4 ctime=Mon Nov 20 14:48:46 2006  
mdadm: size set to 143374656K  
Continue creating array? y  
mdadm: RUN_ARRAY failed: Invalid argument  
mdadm: stopped /dev/md0
```

```
[root@sci-crem ~]# cat /proc/mdstat  
Personalities : [linear] [raid0] [raid1] [raid10] [multipath]  
unused devices: <none>
```

I attach dmesg

```
fdisk -l  
Disk /dev/sda: 73.4 GB, 73407868928 bytes
```

255 heads, 63 sectors/track, 8924 cylinders  
Units = cylinders of 16065 \* 512 = 8225280 bytes

Device	Boot	Start	End	Blocks	Id	System
/dev/sda1		389	8924	68565420	83	Linux
/dev/sda2	*	1	127	1020096	83	Linux
/dev/sda3		128	388	2096482+	82	Linux swap / Solaris

Partition table entries are not in disk order

Disk /dev/sdb: 73.4 GB, 73407868928 bytes  
255 heads, 63 sectors/track, 8924 cylinders  
Units = cylinders of 16065 \* 512 = 8225280 bytes

Device	Boot	Start	End	Blocks	Id	System
/dev/sdb1		389	8924	68565420	83	Linux
/dev/sdb2	*	1	127	1020096	83	Linux
/dev/sdb3		128	388	2096482+	82	Linux swap / Solaris

Partition table entries are not in disk order

Disk /dev/sdc: 146.8 GB, 146815737856 bytes  
255 heads, 63 sectors/track, 17849 cylinders  
Units = cylinders of 16065 \* 512 = 8225280 bytes

Device	Boot	Start	End	Blocks	Id	System
/dev/sdc1	*	1	17849	143372061	fd	Linux raid autodetect

Disk /dev/sdd: 146.8 GB, 146815737856 bytes  
255 heads, 63 sectors/track, 17849 cylinders  
Units = cylinders of 16065 \* 512 = 8225280 bytes

Device	Boot	Start	End	Blocks	Id	System
/dev/sdd1	*	1	17849	143372061	fd	Linux raid autodetect

Disk /dev/sde: 146.8 GB, 146815737856 bytes  
255 heads, 63 sectors/track, 17849 cylinders  
Units = cylinders of 16065 \* 512 = 8225280 bytes

Device	Boot	Start	End	Blocks	Id	System
/dev/sde1	*	1	17849	143372061	fd	Linux raid autodetect

Disk /dev/sdf: 146.8 GB, 146815737856 bytes  
255 heads, 63 sectors/track, 17849 cylinders  
Units = cylinders of 16065 \* 512 = 8225280 bytes

Device	Boot	Start	End	Blocks	Id	System
/dev/sdf1	*	1	17849	143372061	fd	Linux raid autodetect

thank you

## File Attachments

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1) [dmesg](#), downloaded 443 times

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Subject: Re: software raid on Fedora core 6 and OpenVZ

Posted by [rickb](#) on Mon, 20 Nov 2006 14:43:50 GMT

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Does the same error appear when running the same mdadm in redhat/centos kernel?

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Subject: Re: software raid on Fedora core 6 and OpenVZ

Posted by [jean1971](#) on Mon, 20 Nov 2006 14:57:56 GMT

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when I start my FC6 server with the kernel-2.6.18-1.2849.fc6

I don't have any problem

In VE Centos:

```
[root@sci-crem 101]# ssh 172.21.4.74
root@172.21.4.74's password:
Last login: Mon Nov 20 17:52:34 2006 from 172.21.4.70
[root@ldapcrem ~]# mdadm --detail /dev/md0
-bash: mdadm: command not found
[root@ldapcrem ~]#
```

but I don't care this, I need to manage raid in host machine

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Subject: Re: software raid on Fedora core 6 and OpenVZ

Posted by [rickb](#) on Mon, 20 Nov 2006 16:01:23 GMT

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I was kind of wondering if you were trying to manage the raid in the VE. Basically you shouldn't do this, I can't think of any reason why you would want to.

Can you verify that, when booted into the OVZ kernel, you are trying to build the raid from inside a VE or from the HN context?

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Subject: Re: software raid on Fedora core 6 and OpenVZ  
Posted by [jean1971](#) on Mon, 20 Nov 2006 16:04:23 GMT  
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the Vz is not started At boot  
sure i'm trying to use raid from the HN context

the raid array WORKS not using ovz kernel !!! :-/  
when I change kernel the raid array stops working...

Thanks  
Bye  
Gianni

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Subject: Re: software raid on Fedora core 6 and OpenVZ  
Posted by [rickb](#) on Mon, 20 Nov 2006 16:21:55 GMT  
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Ok, I see the prob..

In your dmesg:

```
"md: personality for level 5 is not loaded!"
```

and in your mdstat:

```
"Personalities : [linear] [raid0] [raid1] [raid10] [multipath]"
```

You have no raid5 module. Did you build this openvz kernel from source code or are you using the RPM.

source code:  
grep CONFIG\_MD\_RAID5 .config

rpm:  
shouldn't happen, maybe:  
modprobe raid5

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Subject: Re: software raid on Fedora core 6 and OpenVZ  
Posted by [jean1971](#) on Mon, 20 Nov 2006 16:36:58 GMT  
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rickb wrote on Mon, 20 November 2006 11:21Ok, I see the prob..

You have no raid5 module.

i think so !!!

```
modprobe raid5
```

```
FATAL: Module raid5 not found.
```

```
[root@sci-crem ~]# locate raid5
```

```
/usr/src/kernels/2.6.18-1.2849.fc6-x86_64/include/config/md/ raid5
```

```
/usr/src/kernels/2.6.18-1.2849.fc6-x86_64/include/config/md/ raid5/reshape.h
```

```
/usr/src/kernels/2.6.18-1.2849.fc6-x86_64/include/linux/raid /raid5.h
```

```
/vz/private/101/usr/lib/perl5/5.8.5/i386-linux-thread-multi/ linux/raid/raid5.ph
```

```
/vz/root/101/usr/lib/perl5/5.8.5/i386-linux-thread-multi/lin ux/raid/raid5.ph
```

```
[root@sci-crem ~]#
```

rickb wrote on Mon, 20 November 2006 11:21

Did you build this openvz kernel from source code or are you using the RPM.

RPM !!!

```
uname -a
```

```
Linux sci-crem.provincia.cr.lan 2.6.18-ovz028test005.1-smp #1 SMP Fri Nov 17 18:31:05 MSK  
2006 x86_64 x86_64 x86_64 GNU/Linux
```

```
[root@sci-crem ~]# rpm -qa | grep kernel
```

```
kernel-xen-2.6.18-1.2849.fc6
```

```
kernel-devel-2.6.18-1.2849.fc6
```

```
kernel-smp-2.6.18-ovz028test005.1
```

```
kernel-2.6.18-1.2849.fc6
```

```
kernel-headers-2.6.18-1.2849.fc6
```

it's an x86\_64 kernel !!!

Bye

Thanks

Gianni

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Subject: Re: software raid on Fedora core 6 and OpenVZ

Posted by [dev](#) on Mon, 20 Nov 2006 20:37:33 GMT

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.config from 2.6.18-ovz:

# CONFIG\_MD\_RAID456 is not set  
it looks like the option name was changed (there were separate options for RAID 4,5,6) and this caused it to be lost.  
please, recompile a kernel with this options set.

I added bug:  
[http://bugzilla.openvz.org/show\\_bug.cgi?id=360](http://bugzilla.openvz.org/show_bug.cgi?id=360)  
so that next kernel will have a fix.

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Subject: Re: software raid on Fedora core 6 and OpenVZ  
Posted by [rickb](#) on Mon, 20 Nov 2006 20:50:41 GMT  
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He's using the prebuilt RPM and not source rpm/source code.

jean1971, the easiest way to get you up right now is to install the 2.6.9 openvz kernel rpm. The next 2.6.18 will have the fixed raid5 module.

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Subject: Re: software raid on Fedora core 6 and OpenVZ  
Posted by [jean1971](#) on Tue, 21 Nov 2006 11:21:53 GMT  
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thank you very much....but the 2.6.9 openvz kernel rpm run over FC6??

I must rpm -e --nodeps kernel-smp-2.6.18-ovz028test005.1 ??

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Subject: Re: software raid on Fedora core 6 and OpenVZ  
Posted by [rickb](#) on Wed, 22 Nov 2006 05:21:30 GMT  
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I haven't used FC6 on HN yet, but 2.6.9 openvz kernel should work fine and you can't cause any destruction trying. You don't need to remove any kernels, download 2.6.9 and:

```
rpm -ivh FILE --force
```

Boot off the 2.6.9 in grub.conf and you should be rocking.

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Subject: Re: software raid on Fedora core 6 and OpenVZ

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Posted by [jean1971](#) on Thu, 07 Dec 2006 09:36:19 GMT

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Solved with new KERNEL .....

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