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

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!

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

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.

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
1) dmesg, downloaded 520 times

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?

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 dont' care this, I need to manage raid in host machine

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?

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

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

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

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
so that next kernel will have a fix.

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.

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 ??

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.

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

Posted by jean1971 on Thu, 07 Dec 2006 09:36:19 GMT
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Solved with new KERNEL .....