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Subject: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [bjmg](#) on Wed, 21 Dec 2005 18:22:36 GMT

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Hello,

i have strange problems with my test server (CentOS4) and a debian sarge guest.  
The sarge guest was created for linux vserver and worked there without problems. To test the migration from linux vserver to OpenVZ I try to run that guest on an OpenVZ host.

I just tar-ed everything on the vserver host and untar-ed it again in /vz/private/101  
so far so good.

Then I executed the following steps:

```
vzctl set 101 --applyconfig vps.basic --save  
echo "OSTEMPLATE=debian-3.1" >> /etc/vz/101.conf  
vzctl set 101 --ipadd 10.10.201.101 --save  
vzctl start 101
```

The guest runs now.  
So I enter the guest via

```
vzctl enter 101
```

Now there are a few problems:  
proc is not mounted so I can't do df, ps, ifconfig, ...  
The network does not work too.  
I did the following:

```
mount -t proc proc /proc  
/etc/init.d/networking start
```

Now the network works fine and proc is mounted.

The next step I tried to do was to update.

```
apt-get update
```

Ok, it downloads all package lists. Fine!

Now:

```
apt-get upgrade
```

And I got the following error:

Quote:

E: you don't have enough free space in /var/cache/apt/archives.

Strange, df -h says that I have about 5.3G of free space!

And even more strange: if I delete the package lists. He is able to download them again (no free space error).

FYI:

The the / and the /vz are one the same partition (ext3, defaults).

Another problem I have is that vzctl start 101 does NOT start the network and some other services and does not mount the proc, why?

I hope someone of you can help me.

Thank you

Bernhard, from Germany

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [devnu11](#) on Wed, 21 Dec 2005 18:31:07 GMT

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This most likely is not your problem as it was not indicated in the error as far as I can see. Check /etc/sysconfig/vz-scripts/101.conf and make sure

DCACHESIZE="524288:548864"

Is a larger level that cd / ; du -h or how much disk space the template is using.

Good luck.

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [bjmg](#) on Wed, 21 Dec 2005 22:43:13 GMT

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It is even more strange... if I use the "aptitude upgrade" command (instead of "apt-get upgrade") everything works fine.

Can someone explain me why? Is this a bug in OpenVZ?

Bernhard

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [devnu11](#) on Thu, 22 Dec 2005 01:10:21 GMT

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If you want to try a second template from this post enclosed below it only took me about 15 minutes to complete a working debian template. I am going to try and attach a file which is a debootstrap RPM. I downloaded the deb bootstrap and emerged a program into gentoo to transform the deb file into an RPM. It works great and I made a template for Debian 3.1 sarge using the installed RPM on a CentOS 4.2 host. Here is the forum post:

<http://forum.openvz.org/index.php?t=msg&th=80&start=0>

The attachment is the debootstrap RPM

#### File Attachments

1) [debootstrap-0.3.3-2.noarch.rpm](#), downloaded 1221 times

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [kir](#) on Thu, 22 Dec 2005 09:49:14 GMT

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devnu11, debootstrap is available for Gentoo natively; just emerge debootstrap

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [kir](#) on Thu, 22 Dec 2005 09:56:50 GMT

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Absent /proc and no networking are clear signs of VServer - in OpenVZ it is VPS who should mount its /proc itself, and in VServer there is no normal networking, so it is not started. Use update-rc.d to add networking into boot process.

First of all, check /proc/user\_beancounters inside your VPS -- if you see ones that were failing (last column - failcnt - is greater than zero), you should increase them accordingly (using vzctl set).

You should also usually check not just free blocks (df) but also free inodes (df -i) -- sometimes it happens that there are no more free inodes.

It is also recommended to have a separate /vz partition, for several reasons.

If nothing else works, try debugging apt-get using strace - so you could see the actual syscall and an error.

Also, you can try creating a Debian template from scratch, as described here.

Any problems - please ask.

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [devnu11](#) on Thu, 22 Dec 2005 10:15:28 GMT

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Quote:devnu11, debootstrap is available for Gentoo natively; just emerge debootstrap

Yes, that is correct. I wanted to build Debian on a CentOS Host so I didn't have to upload ~200 MB from a local machine. It's also not very practical to install a "Bear" such as Gentoo if your main purpose is only to debootstrap from an RPM based box. I was lucky to have just installed Gentoo recently on a local machine. I had trouble finding a RPM for debootstrap which was functional for 3.1 sarge. Now I have the RPM for future use

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [kir](#) on Thu, 22 Dec 2005 10:26:03 GMT

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Now I see. BTW thanks for the debootstrap rpm; I will attach it to my howto article

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [bjmg](#) on Thu, 22 Dec 2005 10:33:29 GMT

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Thanks for help - I will post my results as soon as possible.

Bernhard

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [bjmg](#) on Thu, 22 Dec 2005 21:56:24 GMT

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Hi,

now I created a template using the howto from kir. /proc is mounted now and the network works too. But the apt-get problem is still there. I will do a strace in a few minutes and post my results. I hope this helps. I will also publish my precreated debian template. Maybe someone of you can download it and try if he sees the same error for apt-get install something (the same command for aptitude works).

Some further remarks:

If I use the same system via chroot apt-get works fine.

After some apt-get install command there is NO entry with a failcount>0 in /proc/user\_beancounters.

Bernhard

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [bjmg](#) on Thu, 22 Dec 2005 22:07:12 GMT

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See attachment for strace output of "apt-get install mc".

Bernhard

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#### File Attachments

1) [strace-apt-get.gz](#), downloaded 734 times

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [kir](#) on Fri, 23 Dec 2005 09:34:42 GMT

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Can you rerun strace with -Ff arguments, so children will be caught as well?

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [bjmg](#) on Fri, 23 Dec 2005 12:35:27 GMT

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Here is the full strace of apt-get install quota

I really hope you can find the error.

Bernhard

btw. I have migrated my server from Linux VServer to OpenVZ successfully.

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#### File Attachments

1) [strace-apt-get-full.gz](#), downloaded 761 times

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [kir](#) on Fri, 23 Dec 2005 12:49:39 GMT

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Can you tell if you have assigned a valid IP to the VPS? Are you able to ping the outside world from the VPS? Does name resolution work there? Are you able to download stuff from the network?

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [bjmg](#) on Fri, 23 Dec 2005 13:26:57 GMT

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I did everything via SSH and did not use vzctl enter (the server is about 250km away).  
Network is OK, I can ping the VPS and the host.  
If I use aptitude instead of apt-get everything works ok therefore I don't think it is a network problem.

Bernhard

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [bjmg](#) on Tue, 27 Dec 2005 19:43:35 GMT

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Did someone of you found the reason for that problem?  
In the meantime I tried the same VPS on another hardware - same result.  
The first test was done on:  
Pentium M 740  
The second test was done on:  
2xPentium III SMP

Bernhard

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [bjmg](#) on Wed, 28 Dec 2005 12:38:48 GMT

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kir solved the problem. It is a kernel bug. You have to recompile the kernel without  
"CONFIG\_LBD" set. Or you can just wait for a updated kernel image.

Bernhard

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [kir](#) on Wed, 28 Dec 2005 13:13:25 GMT

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New kernel fixing this bug will be available next week. Patch fixing the issue is already available from here.

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [phpfreak](#) on Sun, 08 Jan 2006 05:48:17 GMT

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Has this Kernel been released yet? Just curious, I'd like to create some VHCS with Debian and apt

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [vmvmvm](#) on Sun, 08 Jan 2006 06:11:38 GMT

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VHCS ? not familiar with that acroymn.

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [phpfreak](#) on Sun, 08 Jan 2006 06:24:01 GMT

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Google it. It's an open source hosting control panel. Very buggy though. I can't get it to work much and we dropped it about 4 months ago when it was causing major support issues for our VPS users.

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Subject: Re: Host: CentOS4, Guest: Debian, apt-get not working, strange problems  
Posted by [kir](#) on Mon, 09 Jan 2006 07:09:41 GMT

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Not yet. Will try hard to do that today or tomorrow.

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