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Subject: \*SOLVED\* Live-cd issues

Posted by [kingneutron](#) on Fri, 25 May 2007 06:20:51 GMT

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Update: I found this link:

[http://wiki.openvz.org/Resource\\_shortage](http://wiki.openvz.org/Resource_shortage)

--Issued (guest) ' cat /proc/user\_beancounters ' and noticed 13 failures for shmpages:

|          |      |      |      |      |    |
|----------|------|------|------|------|----|
| shmpages | 8192 | 8192 | 8192 | 8192 | 13 |
|----------|------|------|------|------|----|

--Issued (host) ' vzctl set 101 --shmpages \$((8192\*8)):\$((8192\*8)) --save '

Guest:

Knoppix:/proc# cat user\_beancounters

Version: 2.5

| uid  | resource    | held    | maxheld | barrier | limit   | failcnt |
|------|-------------|---------|---------|---------|---------|---------|
| 101: | kmemsize    | 1236508 | 1577968 | 2752512 | 2936012 | 0       |
|      | lockedpages | 0       | 0       | 32      | 32      | 0       |
|      | privvmpages | 17368   | 20976   | 49152   | 53575   | 0       |
|      | shmpages    | 16706   | 17082   | 65536   | 65536   | 13      |

--Reran apt-get install and it went OK.

--Still dunno how to check disk-space from within guest tho, or why this resource mattered??

=====

Host: Dual-core Pentium-D @ 2660MHz with 2048MB RAM

--Using the latest OpenVZ/Knoppix Live-cd from lwn.net link  
( <http://lwn.net/Articles/234354/> )

( I have fairly extensive experience with vmware WS / server, but none so far with openvz except for what's on the CD and wiki )

Host:

- 1 vzctl create 101 --ostemplate debian-3.1-i386-minimal
- 2 vzctl start 101
- 3 vzctl exec 101 'ps ax'
- 4 echo 1 > /proc/sys/net/ipv4/ip\_forward
- 5 ifconfig
- 6 ifconfig -a
- 7 ifconfig venet0 up

```
8 ifconfig
9 vzctl set 101 --ipadd 192.168.2.227 --save
10 ping 192.168.2.227
```

In guest, I set up access to my local Squid proxy:

```
11 ping 192.168.2.250
12 export http_proxy=http://192.168.2.250:3128
13 export ftp_proxy=http://192.168.2.250:3128
14 apt-get update # Works OK
15 apt-get install joe mc screen
```

--Installing extra packages bombs out with "out of disk space" error.

[[

The following extra packages will be installed:

libc6 libglib2.0-0 libgpmg1 libncurses5 libncursesw5 libslang2  
tzdata

Suggested packages:

locales glibc-doc gpm perl mime-support zip unzip bzip2 links  
w3m lynx arj

Recommended packages:

libglib2.0-data

The following NEW packages will be installed:

joe libglib2.0-0 libgpmg1 libncursesw5 libslang2 mc screen  
tzdata

The following packages will be upgraded:

libc6 libncurses5

2 upgraded, 8 newly installed, 0 to remove and 104 not upgraded.

Need to get 9737kB of archives.

After unpacking 12.0MB of additional disk space will be used.

Do you want to continue? [Y/n]

Get:1 http://ftp.freenet.de stable/main tzdata 2007b-1 [354kB]

Get:2 http://ftp.freenet.de stable/main libc6 2.3.6.ds1-13 [4700kB]

Get:3 http://ftp.freenet.de stable/main libncursesw5 5.5-5 [320kB]

Get:4 http://ftp.freenet.de stable/main screen 4.0.3-0.3+b1 [587kB]

Get:5 http://ftp.freenet.de stable/main libncurses5 5.5-5 [300kB]

Err http://ftp.freenet.de stable/main libncurses5 5.5-5

Error writing to output file - write (28 No space left on device)

Get:6 http://ftp.freenet.de stable/main libslang2 2.0.6-4 [415kB]

Err http://ftp.freenet.de stable/main libslang2 2.0.6-4

Error writing to output file - write (28 No space left on device)

Get:7 http://ftp.freenet.de stable/main libgpmg1 1.19.6-25 [50.9kB]

Err http://ftp.freenet.de stable/main libgpmg1 1.19.6-25

Error writing to output file - write (28 No space left on device)

Get:8 http://ftp.freenet.de stable/main joe 3.5-1.1 [368kB]

Err http://ftp.freenet.de stable/main joe 3.5-1.1

Error writing to output file - write (28 No space left on device)

```

Get:9 http://ftp.freenet.de stable/main libglib2.0-0 2.12.4-2 [504kB]
Err http://ftp.freenet.de stable/main libglib2.0-0 2.12.4-2
  Error writing to output file - write (28 No space left on device)
Get:10 http://ftp.freenet.de stable/main mc 1:4.6.1-6 [2137kB]
Err http://ftp.freenet.de stable/main mc 1:4.6.1-6
  Error writing to output file - write (28 No space left on device)
Fetched 5961kB in 22s (260kB/s)
Failed to fetch http://ftp.freenet.de/debian/pool/main/n/ncurses/libncurses5_5.5-5_i386.deb
Error writing to output file - write (28 No space left on device)
Failed to fetch http://ftp.freenet.de/debian/pool/main/s/slang2/libslang2_2.0.6-4_i386.deb Error
writing to output file - write (28 No space left on device)
Failed to fetch http://ftp.freenet.de/debian/pool/main/g/gpm/libgpm1_1.19.6-25_i386.deb
Error writing to output file - write (28 No space left on device)
Failed to fetch http://ftp.freenet.de/debian/pool/main/j/joe/joe_3.5-1.1_i386.deb Error writing to
output file - write (28 No space left on device)
Failed to fetch http://ftp.freenet.de/debian/pool/main/g/glib2.0/libglib2.0-0_2.12.4-2_i386.deb
Error writing to output file - write (28 No space left on device)
Failed to fetch http://ftp.freenet.de/debian/pool/main/m/mc/mc_4.6.1-6_i386.deb Error writing
to output file - write (28 No space left on device)
E: Unable to fetch some archives, maybe run apt-get update or try with --fix-missing?
]]

```

df -a

| Filesystem | 1K-blocks | Used | Available | Use% | Mounted on |
|------------|-----------|------|-----------|------|------------|
| simfs      | 1048576   | 0    | 1048576   | 0%   | /          |
| proc       | 0         | 0    | 0         | -    | /proc      |
| sysfs      | 0         | 0    | 0         | -    | /sys       |
| devpts     | 0         | 0    | 0         | -    | /dev/pts   |
| tmpfs      | 1035264   | 0    | 1035264   | 0%   | /dev/shm   |

mount

```

simfs on / type simfs (rw)
proc on /proc type proc (rw)
sysfs on /sys type sysfs (rw)
devpts on /dev/pts type devpts (rw)
tmpfs on /dev/shm type tmpfs (rw)

```

--How do you tell how much disk space the guest has, from in-guest? Any advice? TIA

--BTW, I couldn't get networking in-guest when the openvz CD was booted from within vmware ws 5.5.4. This was all done after rebooting the livecd natively, on the bare HW.

Subject: Re: Live-cd issues

Posted by [Vasily Tarasov](#) on Fri, 25 May 2007 08:10:11 GMT

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Hello,

Thank you for your post, it's very important for us to see that people use OpenVZ LiveCD.

About disk space. As you now LiveCD is based on tmpfs, so all VE's files are in memory.

Unfortunately at the moment vzquota doesn't support tmpfs:

[http://bugzilla.openvz.org/show\\_bug.cgi?id=558](http://bugzilla.openvz.org/show_bug.cgi?id=558)

This is why you see zeroes in df output. A workaround for it is to disable vzquota on OpenVZ LiveCD in /etc/vz/vz.conf:

```
[vass@white ~]$ cat /etc/vz/vz.conf | grep DISK_QUOTA
```

```
DISK_QUOTA=yes # << change to "no:
```

Then you'll be able to see the disk space of HN from VE. On usual OpenVZ installation (not LiveCD) it leads to the disadvantage: VE can use any amount of disk space. But on LiveCD OVZ disk quota doesn't work => so no disadvantages.

HTH,

Vasily.

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Subject: Re: Live-cd issues

Posted by [kingneutron](#) on Fri, 25 May 2007 12:41:23 GMT

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W00t, thanks.

Hope this gets updated in the doc for the next Livecd rev; it would be a good idea to update it on the Web for the livecd in the meantime.

Can you indicate How to create the initial image with decent shmpages in the 1st place, and if/how to give a Guest a DHCP address?

TIA

// BTW, nice job on the live-cd. I've been bugging vmware about doing something like this for \*months\* with Player.

Right now I'm interested in openvz for Linux host -> Linux guest implementations, as it looks like the resource requirements are \*much\* less per-guest.

Where can I DL guest templates for such things as latest Debian stable (Etch), and Centos 5? Any support for 64-bit guests and different kernels?

Also -- (sorry for all teh questions, I get enthusiastic easily ) -- is anyone writing a Webmin frontend / monitor for openvz config?

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Subject: Re: Live-cd issues

Posted by [Vasily Tarasov](#) on Sat, 26 May 2007 12:31:08 GMT

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Hello, you wrote:

Quote:Hope this gets updated in the doc for the next Livecd rev; it would be a good idea to update it on the Web for the livecd in the meantime. Ahem... I thought this fact is mentioned in docs:  
[http://wiki.openvz.org/Download\\_live\\_CD#Limitations](http://wiki.openvz.org/Download_live_CD#Limitations)

But you're right it isn't mentioned on the page, that appears after CD boot. Well, can you please add this information to [http://wiki.openvz.org/Basic\\_operations\\_in\\_OpenVZ](http://wiki.openvz.org/Basic_operations_in_OpenVZ)?  
Thanks in advance!

You wrote:

Quote:Can you indicate How to create the initial image with decent shmpages in the 1st place, and if/how to give a Guest a DHCP address?

You can use this article: [http://wiki.openvz.org/Creating\\_OpenVZ\\_LiveCD](http://wiki.openvz.org/Creating_OpenVZ_LiveCD). You don't need to repeat all actions, if you have OpenVZ livecd. Only extract KNOPPIX compressed image that is on CD, chroot to it and increase shmpages default limit (it's located somewhere in vzctl files).

As concerns DHCP. You should use veth instead venet device in VE and then everything is as usual: dhcp-client in VE.

If you will have additional questions, please post them as separate threads, because initial problem is cleared.

Thank you,  
Vasily.

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Subject: Re: Live-cd issues

Posted by [kingneutron](#) on Sun, 27 May 2007 21:58:04 GMT

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K, thanks. I gotcha covered; the wiki has now been updated.

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Subject: Re: Live-cd issues

Posted by [Vasily Tarasov](#) on Mon, 28 May 2007 05:52:01 GMT

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Thank you!

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