
Subject: *SOLVED* Problem create VE when quota=yes

Posted by [yettyn](#) on Mon, 07 Jan 2008 13:52:47 GMT

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Hi,

I have run into a problem where I can't create a VE when DISK_QUOTA=yes in vz.conf

This is however when using my own ve-xxx.conf.sample, created from # vzsplit -n 20 -f vps.my20 . If I use ve-vps.basic.conf-sample however I can create VE's when quota is on, but it seem like I can only start 1 VE, trying to start more fails, unless I stop the one running. This strange as my hw spec isn't that bad:

CPU: Intel Core 2 Duo E6750 (2.66 Mhz)

RAM: 2 GB

SWAP: 2 GB

HDD: 160 GB SATA (I have /vz mounted on a 65G partition)

I should mention as well that I use the 2.6.22-ovz005.1 dev kernel as 2.6.18 lack full support for my hardware.

I have noticed after starting in dmesg the line

```
VZDQ: sys/fs/quota creation failed
```

is added. I am not sure if it has anything to do with it though as I did some tests on another box with lower hw spec were I can boot both kernels (2.6.18 stable & 2.6.22 dev). The pattern was the same in both kernels. One observation though, vzsplit always create DISKINODES="0:0" on that box and if I change this to same as in vps.basic DISKINODES="200000:220000" there are no problems creating VE's although the 'VZDQ: sys/fs/quota creation failed' remains in 2.6.22

This change of DISKINODES doesn't work on my main box though an in fact the values are pretty close to the ones in vps.basic (see below). Instead it seem vzsplit counts DISKINODES in a strange way or at least it has something to do with it. I don't know if it matters, but on the old test box I don't have /vz mounted on it's own partition, which is the only I can come to think of on my end causing the DISKINODES="0:0" result.

I should also add I did run vzcfvalidate after vzsplit, with success.

below is my ve-vps.basic.conf-sample file and then the one created from vzsplit -n 20

```
# Copyright (C) 2000-2007 SWsoft. All rights reserved.
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
```

```
# This program is distributed in the hope that it will be useful,  
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# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
# GNU General Public License for more details.  
#  
# You should have received a copy of the GNU General Public License  
# along with this program; if not, write to the Free Software  
# Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA  
#
```

```
ONBOOT="yes"  
# UBC parameters (in form of barrier:limit)  
KMEMSIZE="11055923:11377049"  
LOCKEDPAGES="256:256"  
PRIVVMPAGES="65536:69632"  
SHMPAGES="21504:21504"  
NUMPROC="240:240"  
PHYSPAGES="0:2147483647"  
VMGUARPAGES="33792:2147483647"  
OOMGUARPAGES="26112:2147483647"  
NUMTCP SOCK="360:360"  
NUMFLOCK="188:206"  
NUMPTY="16:16"  
NUMSIGINFO="256:256"  
TCPSNDBUF="1720320:2703360"  
TCPRCVBUF="1720320:2703360"  
OTHERSOCKBUF="1126080:2097152"  
DGRAMRCVBUF="262144:262144"  
NUMOTHERSOCK="360:360"  
DCACHESIZE="3409920:3624960"  
NUMFILE="9312:9312"  
AVNUMPROC="180:180"  
NUMIPTENT="128:128"
```

```
# Disk quota parameters (in form of softlimit:hardlimit)  
DISKSPACE="1048576:1153024"  
DISKINODES="200000:220000"  
QUOTATIME="0"
```

```
# CPU fair sheduler parameter  
CPUUNITS="1000"
```

```
merc conf # less ve-vps.my20.conf-sample  
# Configuration file generated by vzsplite for 20 VEs  
# on HN with total amount of physical mem 2014 Mb  
# low memory 872 Mb, swap size 2274 Mb, Max treads 8000  
# Resource commit level 0:
```

Free resource distribution. Any parameters may be increased

Primary parameters

NUMPROC="400:400"

AVNUMPROC="111:111"

NUMTCPSOCK="400:400"

NUMOTHERSOCK="400:400"

VMGUARPAGES="49797:2147483647"

Secondary parameters

KMEMSIZE="9153576:10068933"

TCPSNDBUF="1412792:3051192"

TCPRCVBUF="1412792:3051192"

OTHERSOCKBUF="706396:2344796"

DGRAMRCVBUF="706396:706396"

OOMGUARPAGES="49797:2147483647"

PRIVVMPAGES="298782:328660"

Auxiliary parameters

LOCKEDPAGES="446:446"

SHMPAGES="29878:29878"

PHYSPAGES="0:2147483647"

NUMFILE="3552:3552"

NUMFLOCK="355:390"

NUMPTY="40:40"

NUMSIGINFO="1024:1024"

DCACHESIZE="1986361:2045952"

NUMIPTENT="100:100"

DISKSPACE="337036:370740"

DISKINODES="199548:219503"

CPUUNITS="12705"

I haven't laborated with the values in my vps.my20 file yet as I wanted to post this before I lost it but will do so, but of course I also what to figure out why vzsplite creates verified values that actually doesn't work.

/Joakim

Subject: Re: Problem create VE when quota=yes

Posted by [yettyn](#) on Mon, 07 Jan 2008 14:46:44 GMT

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I had a look at filesystem with df

merc conf # df -iT

Filesystem	Type	Inodes	IUsed	IFree	IUse%	Mounted on
/dev/root	reiserfs	0	0	0	-	/
udev	tmpfs	223476	2764	220712	2%	/dev
none	tmpfs	223476	1	223475	1%	/dev/shm

```
none      tmpfs  223476   84 223392   1% /lib/rc/init.d
/dev/sda6 ext3  8880128 30520 8849608   1% /vz
/dev/sda5 reiserfs    0    0    0 - /tmp
merc conf # df -kT
Filesystem Type 1K-blocks Used Available Use% Mounted on
/dev/root reiserfs 78772312 11702364 67069948 15% /
udev      tmpfs   10240    116  10124   2% /dev
none      tmpfs  1031592    0 1031592   0% /dev/shm
none      tmpfs   1024     88    936    9% /lib/rc/init.d
/dev/sda6 ext3  69804244 683740 65574560   2% /vz
/dev/sda5 reiserfs 4048192 32840 4015352   1% /tmp
```

and found the values returned by vzsplit was pretty far off, possibly due to my mix of reiserfs and ext3 (which probably explains the "0:0" value on test box which is all reiserfs)

so by pushing them up quite a bit, basically by (in my case) using approx $n = \text{Available} / 20$ for blocks and inodes for hardlimit and a tad lower or so for softlimit.

```
DISKSPACE="2000000:3000000"
```

```
DISKINODES="400000:420000"
```

VE's creates just fine now. I know reiserfs isn't recommended for openvz and I don't use it for my VE's - but I think the reason to not recommended it is a bit outdated. The problem is its way to deal with inodes rather than it should be unmatute and unstable. Reiserfs 3.6 has been around for quite some time now and I have used it for many years w/o any problems;-)

Subject: Re: ***SOLVED*** Problem create VE when quota=yes

Posted by [kir](#) on Tue, 08 Jan 2008 10:36:36 GMT

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Quote:2.6.18 lack full support for my hardware

Can you elaborate on it? In RHEL5 2.6.18 branch we try to support all the modern hardware, so if yours is not supported please file a bug to <http://bugzilla.openvz.org/> (or at least tell about it here).

Subject: Re: ***SOLVED*** Problem create VE when quota=yes

Posted by [yettyn](#) on Tue, 08 Jan 2008 13:55:38 GMT

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kir wrote on Tue, 08 January 2008 11:36Quote:2.6.18 lack full support for my hardware

Can you elaborate on it? In RHEL5 2.6.18 branch we try to support all the modern hardware, so if yours is not supported please file a bug to <http://bugzilla.openvz.org/> (or at least tell about it here).

Well I am not sure, I run Gentoo and on my newly assembled box I had problem to get my new

SATA disk be seen as sda, just cam up as hda, using gentoo-sources-2.6.18. I know it can be done but it's a quirk, much easier then to bump up to 2.6.22 as it has full and new SATA support. Can't remember but think there was problems with my built in RTL8110 NIC as well. Anyhow, as I was running gentoo-2.6.22 I decided to go for ovz-2.6.22.005.1 dev kernel instead of stable 2.6.18, also because there are several changes in network configuration between the kernels, that apply to the Shorewall firewall 4.0.7 I am using.

I don't think it's any point in filing a bug about this, you better get a new upto date stable kernel out instead

Subject: Re: ***SOLVED*** Problem create VE when quota=yes

Posted by [kir](#) on Tue, 08 Jan 2008 14:34:13 GMT

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2.6.22 kernel is frozen, there will be no new releases/fixes/whatever. 2.6.24, on the other side, will most probably reach the stable status over time.

Subject: Re: ***SOLVED*** Problem create VE when quota=yes

Posted by [yettyn](#) on Tue, 08 Jan 2008 15:38:24 GMT

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kir wrote on Tue, 08 January 2008 15:34:2.6.22 kernel is frozen, there will be no new releases/fixes/whatever. 2.6.24, on the other side, will most probably reach the stable status over time.

Ok I see, is it because 2.6.22 is getting old or concidered buggy (patch-005.1)? What about devbuilds of 2.6.24?

/Joakim
