Subject: Second level quotas mystery
Posted by plast on Sat, 22 Jan 2011 18:48:29 GMT
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Hello,

I've got some mystery to solve regarding my VPS using OpenVZ at Debian 6.0 (Squeeze) dedicated server. I've tried to solve it myself with help of google/forums but after 2-3 days I've come to the point where I can't think of anything new.

Like I said my dedicated server is Debian Squeeze (6.0) and so is system on my VPS:

```
# uname -a
Linux hostname 2.6.32-5-openvz-amd64 #1 SMP Wed Jan 12 04:22:50 UTC 2011 x86_64 GNU/Linux

# vzctl --version
vzctl version 3.0.24
```

I've turned on first and second level quotas for my VPS, it's activate properly according to this:

```
# vzquota stat 101 -t | head -n 6
   resource          usage       softlimit      hardlimit    grace
  1k-blocks       11546956       256000000      512000000
     inodes          56342         4000000        5000000
User/group quota: on,active
Ugids: loaded 50, total 50, limit 1000
Ugid limit was exceeded: no
```

Also during start of VPS 101 there is information about 2nd level quota start:

```
# vzctl start 101
Starting container ...
Container is mounted
Adding IP address(es): IP
Setting CPU units: 1000
Setting CPUs: 1
Set hostname: hostname
Setting quota ugidlimit: 1000
Container start in progress...
```

Everything looks nice so far. Let's get inside the container then.

```
# vzctl enter 101
entered into CT 101

# repquota  /
repquota: Mountpoint (or device) / not found or has no quota enabled.
```

repquota: Not all specified mountpoints are using quota.

Not good.

Let's check mounts.

```
# mount | grep simfs
/dev/simfs on / type simfs (rw,noatime)
# cat /etc/mtab | grep simfs
/dev/simfs / simfs rw,noatime 0 0
# cat /proc/mounts | grep simfs
/dev/simfs / simfs rw,noatime 0 0
```

This seems to be the problem. In every solution I find using google/forums there is

/dev/simfs / simfs rw,noatime,usrquota,grpquota 0 0

but for some reason my filesystem isn't mounted with these two additional options. I'm not sure what can I do about it, for all my knowledge it should be done automatically during VPS startup when I enable 2nd level quotas... am I wrong?

I've tried some 'hacking', for example manually adding these two options to /etc/mtab, but no change.

I've also looked at /etc/init.d/vzquota script, but this script is weird and is hardly doing anything more what I've been doing, let's see:

```
rm -f /etc/mtab >/dev/null 2>&1
echo "/dev/simfs / reiserfs rw,usrquota,grpquota 0 0" > /etc/mtab
mnt=`grep -v " / " /proc/mounts`
if [ $? == 0 ]; then
        echo "$mnt" >> /etc/mtab
fi
quotaon -aug
```

Well, that is what I manually did before, only here is reiserfs used instead of simfs, but it's giving no results either. Still no quota tool can't properly identify filesystem with quotas turned on.

I can't see anything I'm doing wrong and what to do next so I would really appreciate any help/hint.