
Subject: Re: Re: disk use/empty files question

Posted by [massimiliano.sciabica](#) on Fri, 01 Jun 2012 06:09:18 GMT

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Hi Keith,

I'm quite sure XFS is the "problem".

Kirill response is technically perfect and his knowledge is far ahead of mine, I would have not even imagined that disk quota might be implied.

But I suggest you to have a try with ext4 or ext3, the both work fine, even with any tuning option you may need.

On 31/05/2012 23:41, Keith Keller wrote:

> Hello all, thanks for the quick responses!

>

> On 2012-05-31, Kirill Kolyshkin<kolyshkin@gmail.com> wrote:

>

>> Assuming you don't have DISK_QUOTA=no in global config (ie /etc/vz/vz.conf),

>>

> That's correct.

>

>

>> the figures shown come from vzquota, and in order for vzquota to work correctly

>> when you want to copy something to container you have to have it mounted (ie

>> vzctl status 21 should show the word 'mounted' among others) and copy the

>> data to VE_ROOT (ie /vz/root/21) but not to VE_PRIVATE (/vz/private/21).

>>

>> If you have already done it wrong (I assume you did *), you have to recalculate

>> vzquota, the easiest way is to stop container, do vzquota drop 21 and

>> start container

>> again. This should fix your issue.

>>

> You are indeed correct that I originally copied data to /vz/private/21.

> But when I attempted to drop the quota, it still reports 0 blocks used.

> I wonder if Massimiliano's comment is relevant?

>

> On 2012-05-31, Massimiliano

> <massimiliano.sciabica@kiiama.com> wrote:

>

>> Hi,

>> I had a similar issue when I first tried to improve performance of VPS

>> with high number of small files.

>> When a VPS reports 0% usage it is usually due to a not ext2 family

>> filesystem. What fs where you using?

>>

> I am using XFS. The FAQ mentions that disk quotas do not work with XFS,

> so perhaps that's why it isn't displaying quite right (see below).

>

>

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>> I believe this is because of file system crash and the fsck (or journal replay)
>> which truncated your files. In other words, this is not directly
>> related to what you have described above.
>>
> Perhaps--on boot, I didn't notice any unusual messages from fsck, though
> I admit I wasn't paying an enormous amount of attention, and the logs
> don't have anything interesting to report either. Does OpenVZ do a lot
> of caching of disk writes from within a container? (It's obviously too
> late now to see what xfs_repair thinks of the filesystem, but FWIW it
> didn't find anything unusual.)
>
>
>> Speaking of kernel crashes, it's nice to have some console logger installed,
>> such as netconsole so whenever you have an oops you can report the bug.
>> See http://wiki.openvz.org/Remote\_console\_setup
>>
> Yes, I just set this up after the first crash--silly oversight not to
> have done it right away. :)
>
>
>>> # Disk quota parameters (in form of softlimit:hardlimit)
>>> DISKSPACE="1000G:2000G"
>>>
>> It looks like you have set disk quota values to more than your really
>> have. Since this doesn't make sense
>> my question is -- did you meant to disable disk space limit entirely?
>> If yes, you can just have
>> DISK_QUOTA=no in this config.
>>
> Well, I am not entirely sure what I want, to be honest. If it's true
> that having VE_ROOT and VE_PRIVATE on an XFS filesystem means disk
> quotas don't work right, then perhaps I should either use ext3 (or
> ext4?) on that filesystem, or disable disk quotas for all containers.
>
> As an experiment on the latter, I set DISK_QUOTA=no in vz.conf, and now
> I get:
>
> # vzctl exec 21 df -h
> Filesystem      Size  Used Avail Use% Mounted on
> /dev/simfs      1.0T 332G 693G 33% /
> none            16G  4.0K  16G  1% /dev
>
> But it would be convenient to have disk quotas. Is there a preference
> for ext3 or ext4 for the host filesystem?
>
> --keith
>
>

```

>
