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Subject: Skipping quota at start and doing it later?

Posted by [Gregor Mosheh](#) on Sun, 11 May 2008 17:10:16 GMT

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Hey guys.

Some of our VPSs take well over an hour to start up after an unexpected shutdown, thanks to vzquota. Reading the man page, it seems that vzquota cannot be skipped and then done later once the services are up. Am I correct about that, or IS there a way to skip quota checking until after the VPS has started?

--

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Subject: Re: Skipping quota at start and doing it later?

Posted by [TheWiseOne](#) on Mon, 12 May 2008 03:19:03 GMT

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Gregor Mosheh wrote:

> Hey guys.  
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> unexpected shutdown, thanks to vzquota. Reading the man page, it seems  
> that vzquota cannot be skipped and then done later once the services  
> are up. Am I correct about that, or IS there a way to skip quota  
> checking until after the VPS has started?

>

All you have to do is set VZFASTBOOT=yes in /etc/vz/vz.conf and VPS's will be started without quota and then will be restarted to calculate the quota after all have been started.

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Subject: Re: Skipping quota at start and doing it later?

Posted by [Gregor Mosheh](#) on Mon, 12 May 2008 03:30:20 GMT

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Matt Ayres wrote:

> All you have to do is set VZFASTBOOT=yes in /etc/vz/vz.conf and VPS's  
> will be started without quota and then will be restarted to calculate  
> the quota after all have been started.

Interesting. I saw FASTBOOT in the /etc/init.d/vz script and that's not what I saw. I'll give it a try, though. Thanks for the note.

--

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Subject: Re: Skipping quota at start and doing it later?  
Posted by [TheWiseOne](#) on Mon, 12 May 2008 14:50:09 GMT  
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Gregor Mosheh wrote:

> Matt Ayres wrote:

>> All you have to do is set VZFASTBOOT=yes in /etc/vz/vz.conf and VPS's  
>> will be started without quota and then will be restarted to calculate  
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>

> Interesting. I saw FASTBOOT in the /etc/init.d/vz script and that's  
> not what I saw. I'll give it a try, though. Thanks for the note.

>

Which version of the vzctl RPM do you have installed? On my  
vzctl-3.0.22-1 I see the following in /etc/init.d/vz:

```
        if [ "x${VZFASTBOOT}" = "xyes" -a "x${DISK_QUOTA}" =
"xyes" ];
        then
            $VZQUOTA stat ${veid} >/dev/null 2>&1
            if [ $? -eq 6 ]; then
                if $VZQUOTA show ${veid} 2>&1 | grep
"vzquota : (warning) Quota is running" >/dev/null 2>&1; then
                    $VZQUOTA on ${veid} --nocheck
                >/dev/null 2>&1
                    need_restart="${need_restart}
${veid}"
                fi
            fi
        fi
```

There is further code down to process the need\_restart VPS's.

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Subject: Re: Skipping quota at start and doing it later?  
Posted by [Gregor Mosheh](#) on Mon, 12 May 2008 15:30:30 GMT  
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Matt Ayres wrote:

> Which version of the vzctl RPM do you have installed? On my  
> vzctl-3.0.22-1 I see the following in /etc/init.d/vz:

My versions:

vzctl-3.0.22-1  
vzctl-lib-3.0.22-1  
ovzkernel-2.6.18-53.1.13.el5.028stab053.10  
vzquota-3.0.11-1

I have the same paragraph in the init script.

What I read is:

If fastboot and disk\_quota are both yes,  
make sure that quota isn't already running,  
then run vzquota on.

In our case, neither FASTBOOT nor DISK\_QUOTA are set in the conf files,  
yet vzquota runs anyway (normally good, but after a power failure very  
time consuming). The --nocheck option is not mentioned in the man pages  
nor does it seem effective. What am I missing here?

My hack was to add a "vzquota off" line right above the "vzquota on"  
line. It's effective, but not as great as a "real" solution.

--

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Subject: Re: Skipping quota at start and doing it later?  
Posted by [Gregor Mosheh](#) on Mon, 12 May 2008 16:27:20 GMT  
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Matt Ayres wrote:

> All you have to do is set VZFASTBOOT=yes in /etc/vz/vz.conf and VPS's  
> will be started without quota and then will be restarted to calculate  
> the quota after all have been started.

I think I see where we're misconnecting. You say that FASTBOOT will

cause all VPSs to start, then those with fastboot will be re-started later so their quota info can run?

What I'd really like it to skip the quota recalculation entirely, achieve the same effect I currently do with vzquota off (repairing quota file without recalculating) and vzquota on (turning quota on).

--

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Subject: Re: Skipping quota at start and doing it later?  
Posted by [TheWiseOne](#) on Mon, 12 May 2008 16:41:09 GMT  
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Gregor Mosheh wrote:

> Matt Ayres wrote:

>> All you have to do is set VZFASTBOOT=yes in /etc/vz/vz.conf and VPS's  
>> will be started without quota and then will be restarted to calculate  
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>

> I think I see where we're misconnecting. You say that FASTBOOT will  
> cause all VPSs to start, then those with fastboot will be re-started  
> later so their quota info can run?

>

> What I'd really like it to skip the quota recalculation entirely,  
> achieve the same effect I currently do with vzquota off (repairing  
> quota file without recalculating) and vzquota on (turning quota on).

>

VZFASTBOOT is the option. /etc/vz/vz.conf is the main Virtuozzo config,  
not a VPS/Container config file -- it is a global option, it cannot be  
set per-Container. If you set that option in vz.conf then you will  
achieve the effect you desire.

If you look at the code, it checks in VZFASTBOOT is set to yes, if it is  
then it starts the VPS with vzquota nocheck. Once all VPS's are started  
it will iterate over all VPS's stopping them, calculating the quota, and  
starting the VPS back up.

---

```
if [ "x${VZFASTBOOT}" = "xyes" -a "x${DISK_QUOTA}" =  
"xyes" ];
```

```
then
    $VZQUOTA stat ${veid} >/dev/null 2>&1
    if [ $? -eq 6 ]; then
        if $VZQUOTA show ${veid} 2>&1 | grep
"vzquota : (warning) Quota is running" >/dev/null 2>&1; then
            $VZQUOTA on ${veid} --nocheck
        >/dev/null 2>&1
    ---
```

That does the check I stated above, VPS's are started with an out-of-sync quota.

```
---
                                need_restart="${need_restart}
${veid}"
---
```

This sets a flag that this VPS needs to be restarted normally later on in the script. The normal restart will cause the quota to be fully checked.

I assure you this is the option you want enabled.

Thanks,  
Matt

---

Subject: Re: Skipping quota at start and doing it later?  
Posted by [Gregor Mosheh](#) on Mon, 12 May 2008 17:11:16 GMT  
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Matt Ayres wrote:  
> VZFASTBOOT is the option. /etc/vz/vz.conf is the main Virtuozzo config,  
> not a VPS/Container config file

Ah; my mistake. I misread you and the script.

> This sets a flag that this VPS needs to be restarted normally later on  
> in the script. The normal restart will cause the quota to be fully  
> checked.  
> I assure you this is the option you want enabled.

Hm, I'll take your word for it, though it doesn't sound right. I don't want them to be restarted with a full quota recalculation - I don't want quota recalculation at all. These fellas have 250 GB quotas and are using most of it, so the recalculation takes 60+ minutes per VPS.

--

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Subject: Re: Skipping quota at start and doing it later?  
Posted by [TheWiseOne](#) on Mon, 12 May 2008 17:20:52 GMT  
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Gregor Mosheh wrote:

>  
> Hm, I'll take your word for it, though it doesn't sound right. I don't  
> want them to be restarted with a full quota recalculation - I don't  
> want quota recalculation at all. These fellas have 250 GB quotas and  
> are using most of it, so the recalculation takes 60+ minutes per VPS.  
>  
What you want is not possible with any existing options. You could  
possibly edit the vz init script and removed the needs\_restart line.

---

---

Subject: Re: Skipping quota at start and doing it later?  
Posted by [Gregor Mosheh](#) on Mon, 12 May 2008 17:42:50 GMT  
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---

Matt Ayres wrote:

> What you want is not possible with any existing options. You could  
> possibly edit the vz init script and removed the needs\_restart line.

Ahhhh, okay. Then I guess my hack to /etc/init.d/vz is the best way to  
accomplish what I want. We already have a policy of never bypassing the  
tmpfs, so the quota stats before a power outage are good enough for our  
needs.

FYI, the fix I have applied is probably not the best, but here it is for  
posterity:

```
start_ves()  
{  
    local veid  
    local velist  
    local msg  
    local need_restart
```

```

need_restart=""
cd ${CONFIG_DIR} || return
velist=`grep -l '^ONBOOT=yes|^ONBOOT=\\"yes\\" [0-9]*.conf
2>/dev/null |
    sed -e 's/.conf//g' | sort -n`
cd - >/dev/null
sysctl -q -w net.ipv4.route.src_check=0
for veid in $velist; do
    [ "${veid}" = "0" ] && continue
    __echo "Starting VE ${veid}: "
    if [ "x${VZFASTBOOT}" = "xyes" -a "x${DISK_QUOTA}" =
"xyes" ]; then
        $VZQUOTA off ${veid} >/dev/null 2>&1
    fi
    msg=`$VZCTL start ${veid} 2>&1`
    print_result "$msg"
done
}

```

--

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Subject: Re: Skipping quota at start and doing it later?

Posted by [kir](#) on Mon, 12 May 2008 18:00:02 GMT

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Gregor Mosheh wrote:

> Matt Ayres wrote:

>> VZFASTBOOT is the option. /etc/vz/vz.conf is the main Virtuozzo  
>> config, not a VPS/Container config file

>

> Ah; my mistake. I misread you and the script.

>

>

>> This sets a flag that this VPS needs to be restarted normally later  
>> on in the script. The normal restart will cause the quota to be  
>> fully checked.

>> I assure you this is the option you want enabled.

>  
> Hm, I'll take your word for it, though it doesn't sound right. I don't  
> want them to be restarted with a full quota recalculation - I don't  
> want quota recalculation at all. These fellas have 250 GB quotas and  
> are using most of it, so the recalculation takes 60+ minutes per VPS.  
>  
I guess that if you can live w/o disk quotas you can disable this  
entirely and forget about the problem you have. Option to set is  
DISK\_QUOTA=no (in /etc/vz/vz.conf)

---

---

Subject: Re: Skipping quota at start and doing it later?  
Posted by [Gregor Mosheh](#) on Mon, 12 May 2008 18:14:17 GMT  
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Kir Kolyshkin wrote:

> I guess that if you can live w/o disk quotas you can disable this  
> entirely and forget about the problem you have. Option to set is  
> DISK\_QUOTA=no (in /etc/vz/vz.conf)

Sure, but we DO want quotas to be enforced. I just don't want to wait 90  
minutes for recalculating disk usage at startup, when I know that the  
usage hasn't changed since the power went out.

--

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Subject: Re: Skipping quota at start and doing it later?  
Posted by [kir](#) on Thu, 15 May 2008 13:07:26 GMT  
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Gregor Mosheh wrote:

> Kir Kolyshkin wrote:

>  
>> I guess that if you can live w/o disk quotas you can disable this  
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>>

>

> Sure, but we DO want quotas to be enforced. I just don't want to wait 90



> minutes for recalculating disk usage at startup, when I know that the  
> usage hasn't changed since the power went out.  
It was suggested earlier in this thread that if you will comment out the  
following line

```
need_restart="{need_restart} ${veid}"
```

in /etc/init.d/vz you get the exact behavior you ask for. Can you  
confirm (or deny) this?

If you can confirm, a parameter can be added to vz.conf making this  
restart optional.

---

---

Subject: Re: Skipping quota at start and doing it later?  
Posted by [Gregor Mosheh](#) on Thu, 15 May 2008 17:00:26 GMT  
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Gregor wrote:

```
>> Sure, but we DO want quotas to be enforced. I just don't want to wait  
>> for recalculating disk usage at startup, when I know that the  
>> usage hasn't changed since the power went out.
```

Kir Kolyshkin wrote:

```
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> following line  
> need_restart="{need_restart} ${veid}"  
> in /etc/init.d/vz you get the exact behavior you ask for. Can you  
> confirm (or deny) this?
```

I did not try that mechanism. I didn't see "--nocheck" in the vzquota  
man page, and when running it manually during the initial steps of the  
problem, the flag had no effect (quota checking still ran). As such, I  
didn't accept that "vzquota on --nocheck" would accomplish my goal, even  
if the later step of restarting were skipped.

I already had in place a change to the init script, which runs "vzquota  
off" before running "vzquota on" in order to repair the quota file and  
then come back up.

It goes something like this, and I'd be glad to provide the complete script.

```
# fastboot means to turn quota off,  
# effectively repairing the quota file or doing nothing  
if QUOTA and VZFASTBOOT; then vzquota off $VEID ; fi  
# now turn quota on as usual  
if QUOTA; vzquota on $VEID ; fi
```

I'm sure some folks actually like the current behavior, of their VPSs

starting, then restarting over the course of an hour to recalculate disk usage, but this hack worked great for my needs.

--

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