Subject: Skipping quota at start and doing it later? Posted by Gregor Mosheh on Sun, 11 May 2008 17:10:16 GMT View Forum Message <> Reply to Message

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?

Gregor Mosheh / Greg Allensworth, BS, A+ System Administrator HostGIS cartographic development & hosting services http://www.HostGIS.com/

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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 View Forum Message <> Reply to Message

Gregor Mosheh wrote:

- > 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?

>

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.

Subject: Re: Skipping quota at start and doing it later? Posted by Gregor Mosheh on Mon, 12 May 2008 03:30:20 GMT View Forum Message <> Reply to Message

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.

Gregor Mosheh / Greg Allensworth, BS, A+ System Administrator HostGIS cartographic development & hosting services http://www.HostGIS.com/

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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 View Forum Message <> Reply to Message

Gregor Mosheh wrote:

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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. > 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.

Subject: Re: Skipping quota at start and doing it later? Posted by Gregor Mosheh on Mon, 12 May 2008 15:30:30 GMT View Forum Message <> Reply to Message

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.

--

Gregor Mosheh / Greg Allensworth, BS, A+ System Administrator HostGIS cartographic development & hosting services http://www.HostGIS.com/

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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 View Forum Message <> Reply to Message

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 View Forum Message <> Reply to Message

Gregor Mosheh wrote:

> Matt Ayres wrote:

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> cause all VPSs to start, then those with fastboot will be re-started

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>

> 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 View Forum Message <> Reply to Message

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.

--

Gregor Mosheh / Greg Allensworth, BS, A+ System Administrator HostGIS cartographic development & hosting services http://www.HostGIS.com/

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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 View Forum Message <> Reply to Message

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 View Forum Message <> Reply to Message

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 -I '^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
}
```

```
Gregor Mosheh / Greg Allensworth, BS, A+
System Administrator
HostGIS cartographic development & hosting services
http://www.HostGIS.com/
```

```
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only if you can restore." - AMANDA
```

Subject: Re: Skipping quota at start and doing it later? Posted by kir on Mon, 12 May 2008 18:00:02 GMT View Forum Message <> Reply to Message

Gregor Mosheh wrote:

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> Matt Ayres wrote:
```

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

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```

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

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>
```

>

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- > 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 View Forum Message <> Reply to Message

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.

Gregor Mosheh / Greg Allensworth, BS, A+ System Administrator HostGIS cartographic development & hosting services http://www.HostGIS.com/

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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 View Forum Message <> Reply to Message

Gregor Mosheh wrote:

> 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.

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 View Forum Message <> Reply to Message

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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