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>
> I have been trying to get diskinode limits to set at specific levels.
> Namely a 600k:700k with a 1 day grace period. If I manually run the
> commands:
>
> vzctl set 127 --diskinodes 600000:700000 --save
> vzctl set 127 --quotatime 86400 --save
>
> I get the desired results for a already running VPS. However newly
> created VPS's are not keeping the settings and I am not sure what is
> assigning the arbitrary numbers it gets. I edited the vz.conf file (as
> well as the .sample file) to add the limits as:
>
> > ## Disk quota parameters
> > DISKSPACE="50G:50G"
> > DISKINODES="600000:700000"
> > QUOTATIME="86400"
> > DISK_QUOTA=yes
>
> When the VPS builds initially it has the limits set:
>
> # Disk quota parameters (in form of softlimit:hardlimit)
> DISKSPACE="50G:50G" (even tried switching this number to the full number
instead)
> DISKINODES="600000:700000"
> QUOTATIME="86400"
>
> However after it completes the build process and restarts itself it has
some arbitrary number in for the DISKINODES that I am uncertain where its
being pulled from:
>
> # Disk quota parameters (in form of softlimit:hardlimit)
> DISKSPACE="5242880:5242880"
> DISKINODES="2621440:2621440"
> QUOTATIME="86400"
>
> Any suggestions on where to look to make the inode limit work as it
should?

I am kinda lost here... Can you please give us the exact sequence of
commands that you use, tothether with their output?

Subject: Re: Re:: Inode Limits not setting correctly
Posted by Mark Johanson on Mon, 28 May 2012 20:34:44 GMT
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On Tue, 2012-05-29 at 00:15 +0400, Kir Kolyshkin wrote:
> I am kinda lost here... Can you please give us the exact sequence of
> commands that you use, tothether with their output?
When ta new VPS is building if I run:

[root]# cat 101.conf

I get the following output:

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#
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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#
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="14372700:14790164"
LOCKEDPAGES="2048:2048"
PRIVVMPAGES="65536:69632"
SHMPAGES="21504:21504"
NUMPROC="240:240"
PHYSPAGES="0:unlimited"
VMGUARPAGES="33792:unlimited"
OOMGUARPAGES="26112:unlimited"
NUMTCPSOCK="360:360"
NUMFLOCK="188:206"
NUMPTY="100:100"
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="1000:1000"
NUMIPTENT="1000:1000"

# Disk quota parameters (in form of softlimit:hardlimit)
DISKSPACE="50G:50G"
DISKINODES="600000:700000"
QUOTATIME="86400"

# CPU fair scheduler parameter
CPUUNITS="1000"
VE_ROOT="/vz/root/$VEID"
VE_PRIVATE="/vz/private/$VEID"
OSTEMPLATE="centos-5.0-x86"
ORIGIN_SAMPLE="basic"
IP_ADDRESS=""
HOSTNAME="server.example.com"
NAMESERVER="
MEMINFO="pages:131072"
CPULIMIT="400"
CPUS="4"
SWAPPAGES="0"
```

When it completes the build of the VPS, that same exact command results in the following:

[root]# cat 101.conf

```
#  Copyright (C) 2000-2011, Parallels, Inc. 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,
#  but WITHOUT ANY WARRANTY; without even the implied warranty of
#  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="2147483646"
LOCKEDPAGES="999999"
PRIVVMPAGES="131072"
SHMPAGES="65536"
NUMPROC="999999"
PHYSPAGES="0:2147483647"
VMGUARPAGES="65536:2147483647"
OOMGUARPAGES="65536:2147483647"
NUMTCPSOCK="7999992"
NUMFLOCK="999999"
NUMPTY="500000"
NUMSIGINFO="999999"
TCPSNDBUF="214748160:396774400"
TCPRCVBUF="214748160:396774400"
OTHERSOCKBUF="214748160:396774400"
DGRAMRCVBUF="214748160:396774400"
NUMOTHERSOCK="7999992"
DCACHESIZE="2147483646"
NUMFILE="23999976"
AVNUMPROC="1000:1000"
NUMIPTENT="999999"

# Disk quota parameters (in form of softlimit:hardlimit)
DISKSPACE="10485760:10485760"
DISKINODES="5242880:5242880"
QUOTATIME="86400"

# CPU fair scheduler parameter
CPUUNITS="1000"
VE_ROOT="/vz/root/$VEID"
VE_PRIVATE="/vz/private/$VEID"
OSTEMPLATE="centos-5.0-x86"
ORIGIN_SAMPLE="basic"
IP_ADDRESS=""
HOSTNAME="server.example.com"
NAMESERVER=""
MEMINFO="pages:131072"
CPULIMIT="400"
CPUS="4"
SWAPPAGES="0"
```

As you can see the diskinodes are not set to the 600k:700k limits. If I actually run the set command manually:

```
[root]# vzctl set 101 --diskinodes 600000:700000 --save
CT configuration saved to /etc/vz/conf/101.conf
```

[root]# vzctl set 101 --quotatime 86400 --save
CT configuration saved to /etc/vz/conf/101.conf

I end up with:

# Disk quota parameters (in form of softlimit:hardlimit)
DISKSPACE="10485760:10485760"
DISKINODES="600000:700000"
QUOTATIME="86400"

Set exactly as I need them. If I reboot (or even rebuild) the vm, the
numbers stay exactly as I set them when I manually run the vzctl set
with the limits I want. But a newly created vm again ends up with some
arbitrary number for the diskinodes.

Subject: Re: Re:: Inode Limits not setting correctly
Posted by Mark Johanson on Mon, 28 May 2012 21:02:00 GMT
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It looks like this might be a vendor vz openvz issue. Since there was no
setting for inodes, I didn't even think about it being vendor specific.

Sorry to bother....