
Subject: disk size becomes weird after set disk space many times

Posted by [nethubonline](#) on Fri, 08 Aug 2014 05:10:07 GMT

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Hi all,

We just started to use ploop, and testing on "disk space". We found that the disk size will become smaller after setting disk space for many times.

Versions:

vzctl-4.7.2-1.x86_64

e2fsprogs-resize2fs-static-1.42.11-1.ovz.x86_64

vzquota-3.1-1.x86_64

ploop-lib-1.11-1.x86_64

vzstats-0.5.3-1.noarch

ploop-1.11-1.x86_64

vzctl-core-4.7.2-1.x86_64

vzkernel-2.6.32-042stab092.3.x86_64

Container is CentOS 6.5 x64

Below are the commands and outputs that after a new ploop container created. The initial disk space is 50GB. You can see the first several try that setting to 20GB/30GB/40GB are successful, and then at last setting to 20GB/10GB, "Size", "Used" are not correct. Restart container won't help.

Is it bug of OpenVZ/vzctl/ploop or OS related?

```
[root@openvz ~]# vzctl exec 101 df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/ploop40700p1 50G  813M  46G   2% /
none            512M  4.0K  512M   1% /dev
none            512M   0  512M   0% /dev/shm
```

```
[root@openvz ~]# vzctl set 101 --disk space 10G --save && vzctl exec 101 df -h
dumpe2fs 1.41.12 (17-May-2010)
Changing balloon size old_size=0 new_size=42951770112
Opening delta /vz/private/101/root.hdd/root.hdd
Successfully inflated balloon from 0 to 42951770112 bytes
No unused cluster blocks found
tune2fs 1.41.12 (17-May-2010)
Setting reserved blocks count to 131020
CT configuration saved to /etc/vz/conf/101.conf
Filesystem      Size  Used Avail Use% Mounted on
/dev/ploop40700p1 9.3G  813M  8.0G  10% /
```

```
none          512M  4.0K  512M   1% /dev
none          512M    0  512M   0% /dev/shm
```

```
[root@openvz ~]# vzctl set 101 --diskspace 20G --save && vzctl exec 101 df -h
dumpe2fs 1.41.12 (17-May-2010)
```

```
Changing balloon size old_size=42951770112 new_size=32214351872
Successfully truncated balloon from 42951770112 to 32214351872 bytes
tune2fs 1.41.12 (17-May-2010)
```

```
Setting reserved blocks count to 262092
```

```
CT configuration saved to /etc/vz/conf/101.conf
```

```
Filesystem      Size  Used Avail Use% Mounted on
```

```
/dev/ploop40700p1 20G  813M  18G   5% /
```

```
none           512M  4.0K  512M   1% /dev
```

```
none           512M    0  512M   0% /dev/shm
```

```
[root@openvz ~]# vzctl set 101 --diskspace 30G --save && vzctl exec 101 df -h
dumpe2fs 1.41.12 (17-May-2010)
```

```
Changing balloon size old_size=32214351872 new_size=21476933632
Successfully truncated balloon from 32214351872 to 21476933632 bytes
tune2fs 1.41.12 (17-May-2010)
```

```
Setting reserved blocks count to 393164
```

```
CT configuration saved to /etc/vz/conf/101.conf
```

```
Filesystem      Size  Used Avail Use% Mounted on
```

```
/dev/ploop40700p1 30G  813M  27G   3% /
```

```
none           512M  4.0K  512M   1% /dev
```

```
none           512M    0  512M   0% /dev/shm
```

```
[root@openvz ~]# vzctl set 101 --diskspace 40G --save && vzctl exec 101 df -h
dumpe2fs 1.41.12 (17-May-2010)
```

```
Changing balloon size old_size=21476933632 new_size=10739515392
Successfully truncated balloon from 21476933632 to 10739515392 bytes
tune2fs 1.41.12 (17-May-2010)
```

```
Setting reserved blocks count to 524236
```

```
CT configuration saved to /etc/vz/conf/101.conf
```

```
Filesystem      Size  Used Avail Use% Mounted on
```

```
/dev/ploop40700p1 40G  813M  37G   3% /
```

```
none           512M  4.0K  512M   1% /dev
```

```
none           512M    0  512M   0% /dev/shm
```

```
[root@openvz ~]# vzctl set 101 --diskspace 10G --save && vzctl exec 101 df -h
dumpe2fs 1.41.12 (17-May-2010)
```

```
Changing balloon size old_size=10739515392 new_size=42951770112
```

```
Opening delta /vz/private/101/root.hdd/root.hdd
```

```
Successfully inflated balloon from 10739515392 to 42951770112 bytes
```

```
No unused cluster blocks found
```

```
tune2fs 1.41.12 (17-May-2010)
```

```
Setting reserved blocks count to 131020
```

```
CT configuration saved to /etc/vz/conf/101.conf
```

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/ploop40700p1	9.3G	813M	8.0G	10%	/
none	512M	4.0K	512M	1%	/dev
none	512M	0	512M	0%	/dev/shm

```
[root@openvz ~]# vzctl set 101 --diskspace 100G --save && vzctl exec 101 df -h
Changing balloon size old_size=42951770112 new_size=0
Successfully truncated balloon from 42951770112 to 0 bytes
Storing /vz/private/101/root.hdd/DiskDescriptor.xml.tmp
Growing dev=/dev/ploop40700 size=104857600 sectors (new size=209715200)
resize2fs 1.42.11 (09-Jul-2014)
Filesystem at /dev/ploop40700p1 is mounted on /vz/root/101; on-line resizing required
old_desc_blocks = 4, new_desc_blocks = 7
The filesystem on /dev/ploop40700p1 is now 26213888 blocks long.
```

```
CT configuration saved to /etc/vz/conf/101.conf
Filesystem      Size  Used Avail Use% Mounted on
/dev/ploop40700p1 99G 821M 98G  1% /
none            512M 4.0K 512M  1% /dev
none            512M 0 512M  0% /dev/shm
```

```
[root@openvz ~]# vzctl set 101 --diskspace 50G --save && vzctl exec 101 df -h
dumpe2fs 1.41.12 (17-May-2010)
Changing balloon size old_size=0 new_size=53689188352
Opening delta /vz/private/101/root.hdd/root.hdd
Successfully inflated balloon from 0 to 53689188352 bytes
TRUNCATED: 1 cluster-blocks (1048576 bytes)
tune2fs 1.41.12 (17-May-2010)
Setting reserved blocks count to 655308
CT configuration saved to /etc/vz/conf/101.conf
Filesystem      Size  Used Avail Use% Mounted on
/dev/ploop40700p1 49G 821M 46G  2% /
none            512M 4.0K 512M  1% /dev
none            512M 0 512M  0% /dev/shm
```

```
[root@openvz ~]# vzctl set 101 --diskspace 10G --save && vzctl exec 101 df -h
dumpe2fs 1.41.12 (17-May-2010)
Changing balloon size old_size=53689188352 new_size=96638861312
Opening delta /vz/private/101/root.hdd/root.hdd
Successfully inflated balloon from 53689188352 to 96638861312 bytes
No unused cluster blocks found
tune2fs 1.41.12 (17-May-2010)
Setting reserved blocks count to 131020
CT configuration saved to /etc/vz/conf/101.conf
Filesystem      Size  Used Avail Use% Mounted on
/dev/ploop40700p1 8.5G 821M 7.2G 11% /
none            512M 4.0K 512M  1% /dev
none            512M 0 512M  0% /dev/shm
```

```
[root@openvz ~]# vzctl set 101 --diskspace 30G --save && vzctl exec 101 df -h
dumpe2fs 1.41.12 (17-May-2010)
Changing balloon size old_size=96638861312 new_size=75164024832
Successfully truncated balloon from 96638861312 to 75164024832 bytes
tune2fs 1.41.12 (17-May-2010)
Setting reserved blocks count to 393164
CT configuration saved to /etc/vz/conf/101.conf
Filesystem      Size  Used Avail Use% Mounted on
/dev/ploop40700p1 29G  821M   27G   3% /
none            512M  4.0K  512M   1% /dev
none            512M   0  512M   0% /dev/shm
```

```
[root@openvz ~]# vzctl set 101 --diskspace 50G --save && vzctl exec 101 df -h
dumpe2fs 1.41.12 (17-May-2010)
Changing balloon size old_size=75164024832 new_size=53689188352
Successfully truncated balloon from 75164024832 to 53689188352 bytes
tune2fs 1.41.12 (17-May-2010)
Setting reserved blocks count to 655308
CT configuration saved to /etc/vz/conf/101.conf
Filesystem      Size  Used Avail Use% Mounted on
/dev/ploop40700p1 49G  821M   46G   2% /
none            512M  4.0K  512M   1% /dev
none            512M   0  512M   0% /dev/shm
```

```
[root@openvz ~]# vzctl set 101 --diskspace 10G --save && vzctl exec 101 df -h
dumpe2fs 1.41.12 (17-May-2010)
Changing balloon size old_size=53689188352 new_size=96638861312
Opening delta /vz/private/101/root.hdd/root.hdd
Successfully inflated balloon from 53689188352 to 96638861312 bytes
No unused cluster blocks found
tune2fs 1.41.12 (17-May-2010)
Setting reserved blocks count to 131020
CT configuration saved to /etc/vz/conf/101.conf
Filesystem      Size  Used Avail Use% Mounted on
/dev/ploop40700p1 8.5G  821M   7.2G  11% /
none            512M  4.0K  512M   1% /dev
none            512M   0  512M   0% /dev/shm
```

```
[root@openvz ~]# vzctl set 101 --diskspace 150G --save && vzctl exec 101 df -h
Changing balloon size old_size=96638861312 new_size=0
Successfully truncated balloon from 96638861312 to 0 bytes
Storing /vz/private/101/root.hdd/DiskDescriptor.xml.tmp
Growing dev=/dev/ploop40700 size=209715200 sectors (new size=314572800)
resize2fs 1.42.11 (09-Jul-2014)
Filesystem at /dev/ploop40700p1 is mounted on /vz/root/101; on-line resizing required
old_desc_blocks = 7, new_desc_blocks = 10
The filesystem on /dev/ploop40700p1 is now 39321088 blocks long.
```

```
CT configuration saved to /etc/vz/conf/101.conf
Filesystem      Size  Used Avail Use% Mounted on
/dev/ploop40700p1 148G 821M 147G  1% /
none            512M 4.0K 512M  1% /dev
none            512M  0 512M  0% /dev/shm
```

```
[root@openvz ~]# vzctl set 101 --diskspace 20G --save && vzctl exec 101 df -h
dumpe2fs 1.41.12 (17-May-2010)
Changing balloon size old_size=0 new_size=139588534272
Opening delta /vz/private/101/root.hdd/root.hdd
Successfully inflated balloon from 0 to 139588534272 bytes
TRUNCATED: 3 cluster-blocks (3145728 bytes)
tune2fs 1.41.12 (17-May-2010)
Setting reserved blocks count to 262092
CT configuration saved to /etc/vz/conf/101.conf
Filesystem      Size  Used Avail Use% Mounted on
/dev/ploop40700p1 18G 821M 16G  5% /
none            512M 4.0K 512M  1% /dev
none            512M  0 512M  0% /dev/shm
```

```
[root@openvz ~]# vzctl set 101 --diskspace 10G --save && vzctl exec 101 df -h
dumpe2fs 1.41.12 (17-May-2010)
Changing balloon size old_size=139588534272 new_size=150325952512
Opening delta /vz/private/101/root.hdd/root.hdd
Successfully inflated balloon from 139588534272 to 150325952512 bytes
No unused cluster blocks found
tune2fs 1.41.12 (17-May-2010)
Setting reserved blocks count to 131020
CT configuration saved to /etc/vz/conf/101.conf
Filesystem      Size  Used Avail Use% Mounted on
/dev/ploop40700p1 7.7G 821M 6.4G 12% /
none            512M 4.0K 512M  1% /dev
none            512M  0 512M  0% /dev/shm
```

Subject: Re: disk size becomes weird after set diskspace many times
Posted by [nethubonline](#) on Fri, 08 Aug 2014 07:38:44 GMT
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Just tested with most updated version of ploop and the problem still exists

Versions:
ploop-lib-1.12-1.x86_64
vzquota-3.1-1.x86_64
vzstats-0.5.3-1.noarch
vzctl-core-4.7.2-1.x86_64

vzctl-4.7.2-1.x86_64
e2fsprogs-resize2fs-static-1.42.11-1.ovz.x86_64
vzkernel-2.6.32-042stab092.3.x86_64
ploop-1.12-1.x86_64

Subject: Re: disk size becomes weird after set diskspace many times
Posted by [devonblzx](#) on Fri, 08 Aug 2014 23:48:14 GMT
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Did you try running compact?

vzctl compact VEID

Subject: Re: disk size becomes weird after set diskspace many times
Posted by [nethubonline](#) on Mon, 11 Aug 2014 04:17:07 GMT
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I just tried compact / balloon discard which do not help.

```
[root@localhost ~]# vzctl set 101 --diskspace 20G --save
dumpe2fs 1.41.12 (17-May-2010)
Changing balloon size old_size=204013043712 new_size=193275625472
Successfully truncated balloon from 204013043712 to 193275625472 bytes
CT configuration saved to /etc/vz/conf/101.conf
```

```
[root@localhost ~]# vzctl compact 101
Trying to find free extents bigger than 0 bytes
Waiting
Call FITRIM, for minlen=33554432
Call FITRIM, for minlen=16777216
Call FITRIM, for minlen=8388608
Call FITRIM, for minlen=4194304
Call FITRIM, for minlen=2097152
Call FITRIM, for minlen=1048576
0 clusters have been relocated
[root@localhost ~]# vzctl exec 101 df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/ploop12021p1 17G 821M 16G 6% /
none            370M 4.0K 370M 1% /dev
none            370M 0 370M 0% /dev/shm
```

```
[root@localhost ~]# ploop balloon discard /vz/private/101/root.hdd/DiskDescriptor.xml
Trying to find free extents bigger than 0 bytes
Waiting
Call FITRIM, for minlen=33554432
```

```
Call FITRIM, for minlen=16777216
Call FITRIM, for minlen=8388608
Call FITRIM, for minlen=4194304
Call FITRIM, for minlen=2097152
Call FITRIM, for minlen=1048576
0 clusters have been relocated
[root@localhost ~]# vzctl exec 101 df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/ploop12021p1 17G 821M 16G  6% /
none            370M  4.0K 370M  1% /dev
none            370M   0 370M  0% /dev/shm
```

Subject: Re: disk size becomes weird after set diskspace many times
Posted by [devonblzx](#) on Tue, 12 Aug 2014 03:33:40 GMT
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Yeah, it was a long shot. I suggest you open a report on the bugzilla in the ploop section. Include all the details. It'll usually take a couple weeks to get a response but they are pretty helpful.

Subject: Re: disk size becomes weird after set diskspace many times
Posted by [nethubonline](#) on Tue, 12 Aug 2014 08:02:35 GMT
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Thanks for your suggestion.

Bug 3044 Submitted
https://bugzilla.openvz.org/show_bug.cgi?id=3044
