Subject: disk size becomes weird after set diskspace 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 "diskspace". We found that the disk size will become smaller after setting diskspace 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 diskspace 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 --diskspace 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
```