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Subject: Ploop mount/umount issue

Posted by [aw\\_idnt](#) on Mon, 28 Oct 2013 13:49:37 GMT

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Hello there,

I have been playing around with OpenVZ and Ploop devices for quite a while now and right now I am stuck with a rather weird problem, which I like to share with you.

Any help is highly appreciated.

Environment:

OS: CentOS 6.4 x86\_64

Kernel version: 2.6.32-042stab081.5 #1 SMP Mon Sep 30 16:52:24 MSK 2013 x86\_64 x86\_64

x86\_64 GNU/Linux

Ploop-Version: ploop-1.9-1.x86\_64

Testscenario:

1. Created Ploop-Image with the following command:

```
ploop init -s 8G -f expanded -t ext4 /storage/plooptest/test1/root.hdd
```

```
Creating delta /storage/plooptest/test1/root.hdd bs=2048 size=16777216 sectors v1
```

```
Adding snapshot {5fbaabe3-6958-40ff-92a7-860e329aab41}
```

```
Storing /storage/plooptest/test1/DiskDescriptor.xml
```

```
Opening delta /storage/plooptest/test1/root.hdd
```

```
Adding delta dev=/dev/ploop43259 img=/storage/plooptest/test1/root.hdd (rw)
```

```
Running: parted -s /dev/ploop43259 mklabel gpt mkpart primary 2048s 16775127s
```

```
Running: mkfs -t ext4 -j -b4096 -Elazy_itable_init,resize=4294967295 /dev/ploop43259p1
```

```
mke2fs 1.41.12 (17-May-2010)
```

```
Discarding device blocks: done
```

```
Filesystem label=
```

```
OS type: Linux
```

```
Block size=4096 (log=2)
```

```
Fragment size=4096 (log=2)
```

```
Stride=0 blocks, Stripe width=0 blocks
```

```
524288 inodes, 2096635 blocks
```

```
104831 blocks (5.00%) reserved for the super user
```

```
First data block=0
```

```
Maximum filesystem blocks=4294967296
```

```
64 block groups
```

```
32768 blocks per group, 32768 fragments per group
```

```
8192 inodes per group
```

```
Superblock backups stored on blocks:
```

```
    32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632
```

```
Writing inode tables: done
```

```
Creating journal (32768 blocks): done
```

```
Writing superblocks and filesystem accounting information: done
```

This filesystem will be automatically checked every 26 mounts or 180 days, whichever comes first. Use tune2fs -c or -i to override.  
Running: tune2fs -ouser\_xattr,acl /dev/ploop43259p1  
tune2fs 1.41.12 (17-May-2010)  
Creating balloon file .balloon-c3a5ae3d-ce7f-43c4-a1ea-c61e2b4504e8  
Mounting /dev/ploop43259p1 at /storage/plooptest/test1/root.hdd.mnt fstype=ext4 data=""  
Unmounting device /dev/ploop43259

Works!

2. Mounted the newly created image with the following command:  
mount -t ploop /storage/plooptest/test1/DiskDescriptor.xml /stroage/plooptest/mount/test1

Opening delta /storage/plooptest/test1/root.hdd  
Adding delta dev=/dev/ploop43259 img=/storage/plooptest/test1/root.hdd (rw)  
Mounting /dev/ploop43259p1 at /storage/plooptest/mount/test1 fstype=ext4 data='balloon\_ino=12,'

Works!

3. Tried to unmount the device with the following command:  
umount /storage/plooptest/mount/test1

Error in read\_line (util.c:151): Can't open or read /sys/block/ploop43259p1/dev: No such file or directory  
Unmounting device /dev/ploop43259p1  
Error in ploop\_stop (ploop.c:865): PLOOP\_IOC\_STOP: No such device  
/usr/sbin/ploop umount -d /dev/ploop43259p1 command failed  
Error in read\_line (util.c:151): Can't open or read /sys/block/ploop43259p1/dev: No such file or directory  
Unmounting device /dev/ploop43259p1  
Error in ploop\_stop (ploop.c:865): PLOOP\_IOC\_STOP: No such device  
/usr/sbin/ploop umount -d /dev/ploop43259p1 command failed

The devie is still there in this scenario. I can read and write from/to it. However in another scenario yesterday the mountpoint was gone at the output of command "mount" but existed in /proc/mounts. The device was inaccessible (I got IO-Errors from it, when trying to access the directory). I will try to reproduce that and if possible post some data here later.

Any ideas?

Am I doing something wrong?

Is there a detailed documentation about ploop anywhere in the internet?

kind regards

Arne

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Subject: Re: Ploop mount/umount issue  
Posted by [curx](#) on Tue, 29 Oct 2013 10:16:51 GMT  
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please try use ploop util direct for unmounting, like

```
# ploop umount /storage/plooptest/test1/DiskDescriptor.xml -m /storage/plooptest/mount/test1
```

Is this ploop dev unmounted? (fixed a typo)

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Subject: Re: Ploop mount/umount issue  
Posted by [curx](#) on Tue, 29 Oct 2013 10:18:05 GMT  
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for more info's see man ploop and wiki site: <http://openvz.org/Ploop>

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Subject: Re: Ploop mount/umount issue  
Posted by [curx](#) on Tue, 29 Oct 2013 11:28:50 GMT  
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seems a bug in the helper umount script -> <https://bugzilla.openvz.org/2788>

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Subject: Re: Ploop mount/umount issue  
Posted by [aw\\_idnt](#) on Tue, 29 Oct 2013 11:39:40 GMT  
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Well, this procedure is missing the obvious errors, but the result is still not entirely satisfying:

Ran the following command:

```
ploop umount /storage/plooptest/test1/DiskDescriptor.xml -m /storage/plooptest/mount/test1
```

Output:

```
Unmounting file system at /storage/plooptest/mount/test1
```

```
Unmounting device /dev/ploop43259
```

but:

mount

```
/dev/cciss/c0d0p3 on / type ext4 (rw)
proc on /proc type proc (rw)
sysfs on /sys type sysfs (rw)
devpts on /dev/pts type devpts (rw,gid=5,mode=620)
tmpfs on /dev/shm type tmpfs (rw)
/dev/cciss/c0d0p1 on /boot type ext4 (rw)
/dev/cciss/c0d1p1 on /storage type ext4 (rw)
none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw)
sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw)
/storage/plooptest/test1/DiskDescriptor.xml on /storage/plooptest/mount/test1 type ploop (rw)
```

while:

```
cat /proc/mounts
proc /proc proc rw,relatime 0 0
sysfs /sys sysfs rw,relatime 0 0
devtmpfs /dev devtmpfs rw,relatime,size=14326784k,nr_inodes=3581696,mode=755 0 0
devpts /dev/pts devpts rw,relatime,gid=5,mode=620,ptmxmode=000 0 0
tmpfs /dev/shm tmpfs rw,relatime 0 0
/dev/cciss/c0d0p3 / ext4 rw,relatime,barrier=1,data=ordered 0 0
devtmpfs /dev devtmpfs rw,relatime,size=14326784k,nr_inodes=3581696,mode=755 0 0
/proc/bus/usb /proc/bus/usb usbfs rw,relatime 0 0
/dev/cciss/c0d0p1 /boot ext4 rw,relatime,barrier=1,data=ordered 0 0
/dev/cciss/c0d1p1 /storage ext4 rw,relatime,barrier=1,data=ordered 0 0
none /proc/sys/fs/binfmt_misc binfmt_misc rw,relatime 0 0
sunrpc /var/lib/nfs/rpc_pipefs rpc_pipefs rw,relatime 0 0
```

As you can see "mount" still thinks, that the device is mounted, while it is actually unmounted.

Thank you for your help so far. I can work with this solution for now by ignoring /etc/mtab and /bin/mount respectively.

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Subject: Re: Ploop mount/umount issue  
Posted by [curx](#) on Tue, 29 Oct 2013 11:51:43 GMT  
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you can delete the entry of ploop in /etc/mtab manually, it is a debris.  
the umount helpers exited befor deleting the mtab entry.

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Subject: Re: Ploop mount/umount issue  
Posted by [aw\\_idnt](#) on Tue, 29 Oct 2013 11:53:08 GMT  
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Ok, thanks!

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