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Subject: ploop for snapshotting openvz containers on amazon ec2/xen

Posted by [fredish](#) on Mon, 13 May 2013 18:49:12 GMT

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Hello,

I have started using ploop with openvz successfully on centos 6 for snapshotting containers, and it works marvelously. However in moving to Amazon and running on centos 6 via pv-grub, the basic openvz functionalities work per normal, but not with ploop. I believe Xen is doing something unexpected with the locking. I haven't been able to google up any specific info for ec2/xen + openvz + ploop. Is anyone aware of any gotchas or have pointers?

regards, Fred Patton

When running the following script ovz-container-setup.sh--

```
[ec2-user@blah ~]$ sudo ./ovz-container-setup.sh 201
```

which consists of:

```
sudo vzctl create $1 --ostemplate ubuntu-12.04-x86_64 --config unlimited --layout ploop  
--diskspace 3G
```

```
sudo vzctl set $1 --hostname box$1 --ipadd 10.0.0.$1 --nameserver 10.0.0.1 --userpasswd  
root:jl4j3298 --onboot yes --save
```

```
sudo vzctl start $1
```

```
sudo vzctl snapshot $1 --id some-guid
```

OUTPUT:

```
*****
```

```
Creating image: /vz/private/201.tmp/root.hdd/root.hdd size=3145728K
```

```
Creating delta /vz/private/201.tmp/root.hdd/root.hdd bs=2048 size=6291456 sectors
```

```
Storing /vz/private/201.tmp/root.hdd/DiskDescriptor.xml
```

```
Adding delta dev=/dev/ploop36619 img=/vz/private/201.tmp/root.hdd/root.hdd (rw)
```

```
mke2fs 1.42.3 (14-May-2012)
```

```
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
```

```
196608 inodes, 785915 blocks
```

```
39295 blocks (5.00%) reserved for the super user
```

```
First data block=0
```

```
Maximum filesystem blocks=805306368
```

```
24 block groups
```

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

```
8192 inodes per group
```

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

```
32768, 98304, 163840, 229376, 294912
```

Allocating group tables: done  
Writing inode tables: done  
Creating journal (16384 blocks): done  
Writing superblocks and filesystem accounting information: done

tune2fs 1.42.3 (14-May-2012)  
Creating balloon file .balloon-c3a5ae3d-ce7f-43c4-a1ea-c61e2b4504e8  
Mounting /dev/ploop36619p1 at /vz/private/201.tmp/root.hdd/root.hdd.mnt fstype=ext4 data=""  
Unmounting device /dev/ploop36619  
I/O error : No such file or directory  
/vz/private/201.tmp/root.hdd/DiskDescriptor.xml:1: parser error : Document is empty

^  
/vz/private/201.tmp/root.hdd/DiskDescriptor.xml:1: parser error : Start tag expected, '<' not found

^  
Removing stale lock file /vz/lock/201.lck  
Warning: distribution not specified in CT config, using defaults from /etc/vz/dists/default  
Starting container...  
Warning: distribution not specified in CT config, using defaults from /etc/vz/dists/default  
stat(/vz/private/201): No such file or directory  
stat(/vz/private/201): No such file or directory  
Can't umount /vz/root/201: Invalid argument  
stat(/vz/private/201): No such file or directory  
Unable to start init, probably incorrect template  
Container start failed  
Killing container ...  
Container was stopped  
stat(/vz/private/201): No such file or directory  
stat(/vz/private/201): No such file or directory  
Can't umount /vz/root/201: Invalid argument  
Error: failed to apply some parameters, not saving configuration file!  
Container private area /vz/private/201 does not exist  
Snapshot feature is only available for ploop-based CTs  
\*\*\*\*\*

ADDITIONAL CONTEXT:  
\*\*\*\*\*

```
[ec2-user@blah ~]$ sudo dmesg | tail -n 50
[ 0.211801] device-mapper: ioctl: 4.22.6-ioctl (2011-10-19) initialised: dm-devel@redhat.com
[ 0.237828] <30>udev[87]: starting version 173
[ 0.292946] xlblk_init: register_blkdev major: 202
[ 0.296020] alloc irq_desc for 275 on node 0
[ 0.296026] alloc kstat_irqs on node 0
[ 0.305178] blkfront: xvde1: barriers disabled
[ 0.606316] EXT4-fs (xvde1): INFO: recovery required on readonly filesystem
[ 0.606345] EXT4-fs (xvde1): write access will be enabled during recovery
[ 6.305800] EXT4-fs (xvde1): orphan cleanup on readonly fs
```

```

[ 6.308531] EXT4-fs (xvde1): ext4_orphan_cleanup: deleting unreferenced inode 7113
[ 6.308619] EXT4-fs (xvde1): ext4_orphan_cleanup: deleting unreferenced inode 7109
[ 6.309350] EXT4-fs (xvde1): ext4_orphan_cleanup: deleting unreferenced inode 7076
[ 6.309370] EXT4-fs (xvde1): ext4_orphan_cleanup: deleting unreferenced inode 7074
[ 6.309404] EXT4-fs (xvde1): ext4_orphan_cleanup: deleting unreferenced inode 7072
[ 6.309426] EXT4-fs (xvde1): ext4_orphan_cleanup: deleting unreferenced inode 7068
[ 6.309446] EXT4-fs (xvde1): 6 orphan inodes deleted
[ 6.309460] EXT4-fs (xvde1): recovery complete
[ 6.392109] EXT4-fs (xvde1): mounted filesystem with ordered data mode. Opts:
[ 6.664406] dracut: Remounting /dev/disk/by-label/\x2f with -o noatime,ro
[ 6.685461] EXT4-fs (xvde1): mounted filesystem with ordered data mode. Opts:
[ 6.691476] dracut: Mounted root filesystem /dev/xvde1
[ 6.763928] dracut: Switching root
[ 12.227947] <30>udevd[224]: starting version 173
[ 14.594784] Initialising Xen virtual ethernet driver.
[ 14.595974]  alloc irq_desc for 274 on node 0
[ 14.595980]  alloc kstat_irqs on node 0
[ 17.844949] NET: Registered protocol family 10
[ 29.386043] eth0: no IPv6 routers present
[ 36.884041] venet0: no IPv6 routers present
[ 49.671537] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 50.059239] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 50.153451] Enabling conntracks and NAT for ve0
[ 50.153466] nf_conntrack version 0.5.0 (16384 buckets, 65536 max)
[ 50.458267] RPC: Registered named UNIX socket transport module.
[ 50.458279] RPC: Registered udp transport module.
[ 50.458285] RPC: Registered tcp transport module.
[ 50.458291] RPC: Registered tcp NFSv4.1 backchannel transport module.
[ 51.065970] Slow work thread pool: Starting up
[ 51.066120] Slow work thread pool: Ready
[ 51.066160] FS-Cache: Loaded
[ 51.121922] Registering the id_resolver key type
[ 51.122080] FS-Cache: Netfs 'nfs' registered for caching
[ 51.221254] ploop_dev: module loaded
[ 75.822126] ploop36619: unknown partition table
[ 76.882564] ploop36619:
[ 76.900774] ploop36619: p1
[ 80.539312] ploop36619: p1
[ 80.567750] EXT4-fs (ploop36619p1): mounted filesystem with ordered data mode. Opts:
[ 80.643295] CT: 201: started
[ 80.737492] CT: 201: stopped

```

```
[ec2-user@blah ~]$ sudo df -iT
```

```

Filesystem Type Inodes IUsed IFree IUse% Mounted on
/dev/xvde1 ext4 524288 57886 466402 12% /
tmpfs tmpfs 936809 1 936808 1% /dev/shm

```

```
[ec2-user@ip-10-254-73-168 ~]$ sudo ploop stat -d /dev/ploop34720
```

```
bio_in      16786
bio_fast    120
bio_full     0
bio_out     28
bio_alloc   75
bio_alloc_whole 64
bio_splits  0
coal_back   0
coal_forw   16547
coal_back2  0
coal_forw2  0
coal_oback  0
coal_oforw  0
coal_mback  0
coal_mforw  0
coal_overlap 0
coal_flush  0
bio_barriers 0
bio_rzero   13
bio_wzero   0
bio_syncwait 75
bio_fsync   19
bio_cows    0
bio_whole_cows 0
merge_neg_cluster 0
merge_neg_disable 0
fast_neg_nomap 116
fast_neg_noem 0
fast_neg_shortem 0
fast_neg_backing 0
bio_lockouts 28
map_lockouts 1
merge_lockouts 0
map_reads   4
map_merges  0
map_single_writes 14
map_multi_writes 10
map_multi_updates 61
bio_trans_whole 0
bio_trans_copy 0
bio_trans_alloc 0
bio_trans_index 0
bio_flush_in 9
bio_fua_in  1
bio_flush_out 9
bio_fua_out 1
bio_flush_skip 0
```

