
Subject: Creating ploop device fails on zfs storage
Posted by [PyotrVelikiy](#) on Fri, 05 Apr 2013 21:39:00 GMT
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Hello, using

```
ploop-1.6-1.x86_64  
vzkernel-2.6.32-042stab076.5.x86_64  
zfs-0.6.1-1.el6.x86_64
```

creating a CT fails when attempting to use ploop on a zfs /vz/private partition:

```
# vzctl create 1000 --ostemplate ubuntu-12.04-x86_64 --layout ploop --diskspace 8G  
Creating image: /vz/private/1000.tmp/root.hdd/root.hdd size=8388608K  
Creating delta /vz/private/1000.tmp/root.hdd/root.hdd bs=2048 size=16777216 sectors  
Error in create_empty_delta (ploop.c:289): Can't open /vz/private/1000.tmp/root.hdd/root.hdd:  
Invalid argument  
Failed to create image: Error in create_empty_delta (ploop.c:289): Can't open  
/vz/private/1000.tmp/root.hdd/root.hdd: Invalid argument [1]  
Creation of container private area failed
```

Is this to be expected under zfs?
Is there a known workaround?

The same container works fine with default simfs on the same zfs partition.

Subject: Re: Creating ploop device fails on zfs storage
Posted by [Paparaciz](#) on Sat, 06 Apr 2013 18:52:29 GMT
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I don't know about zfs, but ploop requires that partition fs (in which you create CT) have to be ext4 (ext3?).

Subject: Re: Creating ploop device fails on zfs storage
Posted by [PyotrVelikiy](#) on Thu, 18 Apr 2013 19:08:59 GMT
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The question is not what fs needs to be inside a ploop container;
it is why the creation of /vz/private/{ctid}/root.hdd/root.hdd
fails when /vz/private is a zfs partition.

According to wiki.openvz.org/Ploop/Why

"Different containers may use file systems of different types and properties"

So one might have hoped that user-space ploop can also use zfs on linux file systems.

Subject: Re: Creating ploop device fails on zfs storage
Posted by [Paparaciz](#) on Thu, 18 Apr 2013 19:26:06 GMT
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I didn't told anything about CT fs type.

please see https://bugzilla.openvz.org/show_bug.cgi?id=2277
comments #5 #7 #10 and of course #11

Subject: Re: Creating ploop device fails on zfs storage
Posted by [bjdea1](#) on Tue, 30 Sep 2014 01:32:44 GMT
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You can get ZOL (ZFS on Linux) to work with OpenVZ quite easily, including Ploop. I have written up a guide on how to use ZOL (ZFS on Linux) with OpenVZ here:

Creating ZFS Zpools for OpenVZ
<http://hostrepo.com/article.php?id=190>

I have been using ZOL (ZFS on Linux) with OpenVZ in a production environment for over 12 months. No problems at all, in fact I think it is safer, although performance is not as good, I feel ZFS is a more reliable filesystem and mitigates (prevents) corruption better - assuming you always use zpools with mirrors.
