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Subject: Fuse O\_DIRECT support in RHEL6 kernel  
Posted by [zitseng](#) on Fri, 07 Mar 2014 06:05:11 GMT  
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Hi there,

I'm trying to use Gluster to store OpenVZ containers. When the OpenVZ containers are configured to use Ploop, O\_DIRECT is required to be supported by the underlying FS.

Now, I understand Fuse (and thus gluster-fuse) did not support O\_DIRECT in the past. However, I notice that there is a patch to add O\_DIRECT into fuse from 2.6.32-220.17.1.el6 kernel:

[rpm.pbone.net/index.php3/stat/22/idpl/18082292/com/changelog.html](http://rpm.pbone.net/index.php3/stat/22/idpl/18082292/com/changelog.html)

Using the latest testing OpenVZ kernel (wiki.openvz.org/Download/kernel/rhel6-testing/042stab085.12 ), which is supposed to be rebased from 2.6.32-431.1.2.el6. I presume that the O\_DIRECT support is there. However, I tested and found it not the case. Creating files with O\_DIRECT on a gluster mounted volume will fail.

Any help with what might be wrong? Thanks.

Regards,

.lzs

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Subject: Re: Fuse O\_DIRECT support in RHEL6 kernel  
Posted by [zitseng](#) on Mon, 10 Mar 2014 08:53:28 GMT  
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I forgot to add earlier that I have tested with the plain CentOS kernel 2.6.32-431.5.1.el6, and O\_DIRECT works fine.

Anyway, I've figured out that the fuse module in the OpenVZ patch is not quite the same as the plain CentOS 2.6.32-431.5.1.el6. The O\_DIRECT support is not enabled by default. Instead, one needs to give the `direct_enable` option to fuse to have the support enabled.

Then, alas, it still does not work. I didn't realise, ploop specifically requires ext4 (maybe ext2 and ext3 too?) or NFS. It will just not work with other FS.

Thought I'd share this in case anyone is looking into OpenVZ with containers in Ploop format stored on a Gluster mount.

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