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Subject: Re: fuse filesystem inside a container?

Posted by [George Georgalis](#) on Wed, 31 Aug 2011 22:30:29 GMT

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On Wed, Aug 31, 2011 at 11:37 AM, George Georgalis <[george@galis.org](mailto:george@galis.org)> wrote:

> On Wed, Aug 31, 2011 at 10:45 AM, Bogdan-Stefan Rotariu

> <[bogdan@rotariu.ro](mailto:bogdan@rotariu.ro)> wrote:

> ...

>>> I'm able to make the md/fuse devices but I've been unable to configure

>>> a container to additionally include fuse filesystem capability.

>>>

>>> vzctl set \$id --devices b:9:2:rw c:10:229:rw --save

>>>

>>> then after starting the containers,

>>>

>>> vzctl exec \$id mknod /dev/fuse c 10 229

>>> vzctl exec \$id mknod /dev/md2 b 9 2

>>>

>>

>> [...]

>>

>>>

>>> Fuse is being used to mount a gluster filesystem. Am I missing a step?

>>

>>

>> Yep,

>>

>> Make sure you have the module in the container, kmod-fuse, and you can

>> load it.

>

> Well that is certainly confusing, since the container doesn't have its

> own kernel. What does loading a kernel in a container mean?

>

> The host has (and uses) the following modules:

> /lib/modules/2.6.18-238.19.1.el5.028stab092.2/extra/fuse.ko

> /usr/lib64/glusterfs/3.0.0/xlator/mount/fuse.so.0.0.0

>

> I presume fuse.ko is the one loaded by the kernel while the gluster

> client uses fuse.so.0.0.0 in userspace.

>

> In the container I have only,

> /opt/glusterfs/3.2.3/lib64/glusterfs/3.2.3/xlator/mount/fuse .so.0.0.0

>

> but when I try to load it I get:

> insmod: error inserting

> '/opt/glusterfs/3.2.3/lib64/glusterfs/3.2.3/xlator/mount/fuse.so.0.0.0':

> -1 Operation not permitted

>

> How do I load this fuse capability into the container?

I've identified the warnings/errors in my prior email as memory allocation limits, so I set privvmpages to unlimited and reinstalled fuse & fuse-libs in the container without issue.

However I still have the confounding issue of how to I make the fuse filesystem available in the container /proc/filesystems like it is in the host?

-George

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