## Subject: Re: [RFC] [PATCH 0/3] containers: introduction Posted by serue on Thu, 11 Jan 2007 16:24:52 GMT

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Quoting Eric W. Biederman (ebiederm@xmission.com):
> "Serge E. Hallyn" <serue@us.ibm.com> writes:
>
> > Quoting Eric W. Biederman (ebiederm@xmission.com):
> >> "Serge E. Hallyn" <serue@us.ibm.com> writes:
> >>
>>> Or we could go ahead and fully implement it in procfs. As you'd said
>>> earlier, that really maps best into what we want. Containerfs was
>>> just much simpler and quicker to implement for demonstrating the semantics.
> >>
>>> Well for what it is worth I just notices that nfs is currently and automounter
>>> that transparently unmounts it's children when you unmount it. I don't think
>>> that is quite enough to split /proc into two but it does have some potential
>>> when it comes to new features.
> >>
>>> Using itty bity purpose built file systems if there is an automounter for them
>>> because much easier for user space.
>> I'm not parsing the last sentence.
> >
>> Are you suggesting that we may be able to stick with a custom fs,
> > using autofs to automount it if the symlink /proc/$$/container is
> > dereferenced while only a kernel mount of /containers exists?
>> I suppose a simpler solution is to not define /proc/$$/container,
> > but rather just let /container in the containerfs symlink to
>> the current process' container. That way you can't reference
> > /containers/container unless containerfs is already mounted under
> > /containers, and we avoid the problem completely.
> I am saying:
> autofs is not special. Doing automounting the nfs way
> you can add and remove mounts transparently to the user.
I see, thanks.
```

We don't want the kernel to know about magic pathname strings, so as long as we are willing to mount containerfs under a known location in procfs, this becomes trivial. Otherwise, I guess we need to talk about convention.

I suppose just not having the kernel-mount, having the symlink, and making /sys/containers the known location, isn't bad. Then if /sys/containers isn't mounted and doesn't exist so we can't

automount it, /proc/\$\$/containers is just a bad link.

- > A very good use for this would be to mount/unmount things like
- > /proc/sys/fs/binfmt\_misc/.

>

- > That technique may have an implication for the design of a container
- > filesystem.

>

- > The result is that if something is more simply implemented as a
- > separate filesystem, that is a possibility.

That's what's holding me back here - I'm still not sure whether to proceed with a separate implementation, proceed with the current implementation of Paul's containers, or wait for an update from Paul responding to your feedback.

But both the standalone and paul-based approaches were easy to implement so I guess it's not a big deal to just proceed with my own and port to containers if/when appropriate.

-serge

Containers mailing list

Containers@lists.osdl.org https://lists.osdl.org/mailman/listinfo/containers