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Subject: Re: [RFC] [PATCH 0/3] containers: introduction

Posted by [serue](#) on Tue, 26 Dec 2006 14:27:15 GMT

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Quoting Eric W. Biederman (ebiederm@xmission.com):

> "Serge E. Hallyn" <serue@us.ibm.com> writes:

>

> > Following is a small patchset implementing what I was describing

> > about earlier, namely semantics for a hierarchical container

> > naming scheme.

> >

> > What works:

> >

> > 1. `ls -l /proc/$$/container`

> > shows the full hierarchical name of the container;

> >

> > 2. `mount -t containerfs none /container`

> > results in a file tree under `/container` representing the

> > full container hierarchy

> >

> > 3. `cd /proc/$$/container; ls`

> > results in a listing of child containers

> >

> > What doesn't work:

> > 1. The `/proc/$$/container` link always appears dead (red

> > in bash on my fedora test system) because it points

> > into a `kern_mounted fs`.

>

> Just a quick comment. I am not at all comfortable exporting

> internal kernel mounts without something explicit happening.

> I played with that in one of my earlier patches and the corner cases

> are just extremely weird and mess with the usual unix guarantees

> about the namespace. Two specific examples are that `..` fails to work properly,

> as does `sys_getcwd`.

>

> My gut feel is that we need something like union mounts so we can

> glue these kinds of things but that will mount and unmount as

> a unit. So we can preserve backwards compatibility with existing

> filesystems. I haven't had a chance to look at what it would

> take to implement this kind of hidden union mount though.

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.

> With the mount tree cloning code I believe we are quite close (at least

> if we don't need the union property).

Containers mailing list  
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