
Subject: Re: [RFC][PATCH 0/7] Clone PTS namespace
Posted by [ebiederm](#) on Thu, 10 Apr 2008 07:36:20 GMT
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On Wed, 2008-04-09 at 20:59 -0500, Serge E. Hallyn wrote:

> Feh, so of course sysfs would have the most interactions for a device
> namespace, but now we have pty, network, and user namespace all needing
> some sort of sysfs solution. For a quickfix for
> CONFIG_USER_SCHED+CONFIG_USER_NS, I just moved /sys/kernel/uids/<uid>
> to /sys/kernel/uids/<usersns_address>/<uid>. But what would be a *good*
> general solution?
>
> In -s /sys /proc/self/sys?

LOL

In /proc I prefer the /proc/self approach because we can do it and it is just much easier to setup and use. (Plus we have weird problems if we try and capture more then the pid namespace).

For other filesystems the only really viable option is to capture namespaces at mount time, as we are doing for devpts and proc with respect to the pid namespace.

For the network namespace where it is very much more then a single directory with symlinks from physical devices pointing at logical network interfaces.

My last effort in that area was ok'd by Tejun lightly tested by a few others and misplaced by gregkh so I don't think we have a real problem with resurrecting those patches cleaning them up a bit and merging them.

The biggest gotcha with sysfs is that the VFS locking for the dcache is in the wrong order for distributed filesystems, where we would like to make the change atomically on the server and then make the change in the local cache. Or in this case the sysfs internal data structures. The truly nasty case is supporting rename (as sysfs does) as the VFS is not at all happy if you just punt and shoot down the dentries and instantiate new ones.

I'm hoping to be able to get back at this in the week or so as things settle down from my move. My last patches should be in my proof of concept network namespace tree, if they don't show up elsewhere.

It isn't my perception that we have a design problem rather, we just need to move an important piece of code in a subtle and moderately uninteresting direction for it's primary maintainer.

Further what I did for the network namespace should easily handle the uid/gid namespace and should be a good starting place for a general device namespace.

Eric

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