Subject: Re: [PATCH 5/7]: Determine pts_ns from a pty's inode.
Posted by serue on Wed, 26 Mar 2008 15:12:05 GMT
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Quoting sukadev@us.ibm.com (sukadev@us.ibm.com):
> Serge E. Hallyn [serue@us.ibm.com] wrote:
> | > | I suppose you could just create /dev/pts/ptmx and /dev/pts/tty.
> | > | Recommend that in containers /dev/ptmx and /dev/tty be symlinks
> | > | into /dev/pts. Applications don't need to change. If
> | > | ptmx_open() sees that inode->i_sb is a devptsfs, it gets the
> | > | namespace from the sb. If not, then it was a device in /dev
> | > | and it gets the nmespace from current.
> | >
> | > But we would still depend on user-space remounting /dev/pts after
> | > the clone right ? Until they do that we would access the parent
> | > container's /dev/pts/ptmx ?
> |
> | Yes. Which is the right thing to do imo.
>
> Hmm, that sounds reasonable, although slightly inconsistent with pid-ns,
> where pid starts at 1 regardless of whether /proc is remounted.

Very different cases. The pid is the task's pid in the new pidns.
The task ALSO has a different pid in the parent pidns.

The pts only has an identity in one ptsns.

> But even so, if user fails to establish the symlink, clones the pts ns
> and tries to create a pty, we would end up with different pts nses again ?

Yes. So what?

> i.e
> /dev/ptmx is still a char dev in root fs
> clone(pts_ns)
>   (In child, (before remount /dev/pts))
>   open("/dev/ptmx")
>   open("/dev/pts/0")
>
> Since ptmx is not in devpts, we use current_pts_ns() or child-pts-ns
> Since /dev/pts is not remounted in child, we get the parent pts-ns from
>
> If we can somehow detect the incorrect configuration and fail either
> open, we should be ok :-)

I completely disagree with this sentiment. The kernel doesn't need
to detect an "incorrect configuration" if it isn't dangerous. One
man's "incorrect configuration" is another man's useful trick.

-serge

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