

---

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

[View Forum Message](#) <> [Reply to Message](#)

---

Quoting [sukadev@us.ibm.com](mailto:sukadev@us.ibm.com) ([sukadev@us.ibm.com](mailto:sukadev@us.ibm.com)):

> Serge E. Hallyn [[serue@us.ibm.com](mailto: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 namespace 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

---

Containers mailing list

Containers@lists.linux-foundation.org

<https://lists.linux-foundation.org/mailman/listinfo/containers>

---