Subject: Re: [PATCH 5/7]: Determine pts_ns from a pty's inode. Posted by Sukadev Bhattiprolu on Wed, 26 Mar 2008 14:55:21 GMT View Forum Message <> Reply to Message

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.

۱ >

- > 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.

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?

```
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 :-) inode.

Suka

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