
Subject: Re: [PATCH 0/4] Helper patches for PTY namespaces
Posted by [ebiederm](#) on Sat, 12 Apr 2008 19:06:55 GMT
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On Sat, 2008-04-12 at 10:29 -0700, sukadev@us.ibm.com wrote:

> Some simple helper patches to enable implementation of multiple PTY
> (or device) namespaces.
>
> [PATCH 1/4]: Propagate error code from devpts_pty_new
> [PATCH 2/4]: Factor out PTY index allocation
> [PATCH 3/4]: Move devpts globals into init_pts_ns
> [PATCH 3/4]: Enable multiple mounts of /dev/pts
>
> This patchset is based on earlier versions developed by Serge Hallyn
> and Matt Helsley.

Suka Stop.

The first two patches appear to just be cleanups and as such should be able to stand on their own. Mentioning that you found these opportunities while working on your pts namespace is fine. Justifying the cleanups this way is not.

When you mentioned you intended to just resend the cleanups this is not at all what I thought you were about. So please just get the first two patches in a form that stands by themselves.

The pts namespace as designed is not acceptable.

The problem you are trying to solve with the pts namespace is real.

So what we need is a device namespace and possibly an incremental path to get there. A device namespace would abstract the device number to device mapping for all devices. A safe incremental path would disable all device number to device mappings for process in that namespace. So all functionality would be gone, then it would enable certain mappings and certain pieces of the functionality if the code in the kernel is not clean enough that we can do it all in one go.

We need to see that path. Only then can we take patches that add namespace specific goo. The pattern I am proposing has worked quite well for the network namespace. Meanwhile the uid namespace which follows the pattern you seem to be following now seems does not look to be completed any time soon.

So send your clean up patches and then let's architect this thing so we are really talking about a namespace. Then we can update devpts to capture the device namespace on mount and do its work in a namespace

specific manner.

Eric

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