Subject: Re: [PATCH] Allow signalling container-init Posted by serue on Thu, 09 Aug 2007 14:42:14 GMT

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Quoting Daniel Pittman (daniel@rimspace.net):
> "Serge E. Hallyn" <serue@us.ibm.com> writes:
> > Quoting Daniel Pittman (daniel@rimspace.net):
>>> sukadev@us.ibm.com writes:
> [...]
>>> TODO: Ideally we should allow killing the container-init only from
>>> ancestor containers and prevent it being killed from that or
>>> descendant containers. But that is a more complex change and
>>> will be addressed by a follow-on patch. For now allow the
>>> container-init to be terminated by any process with sufficient
>>> privileges.
>>> This will break, as far as I can see, by allowing the container root to
>>> send signals to init that it doesn't expect.
>> Yes, in the end what we want is for a container init to receive
>> 1. all signals from a (authorized) process in a parent
      pid namespace.
>> 2. for signals sent from inside it's pid namespace, only
      exactly those signals for which it has installed a
      custom signal handler, no others.
> >
> >
>> In other words to a process in an ancestor pid namespace, the init of a
> > container is like any other process. To a process inside the namespace
> > for which it is init, it is as /sbin/init is to the system now.
>
> That makes sense.
>
> > Actually achieving that without affecting performance for all
> > signalers is nontrivial. The current patchset is complex enough that
>> I'd like to see us settle on non-optimal semantics for now, and once
> > these patches have settled implement the ideal signaling.
> I appreciate that. I figured to make you aware that this will make it
> impossible to run upstart and, probably, other versions of init in your
> container as expected.
>
> Since this was a somewhat subtle bug to track down it is, I think, work
> documenting so that people trying to use this code are aware of the
> limitation.
```

Agreed. I do think it is documented in the code and in changelogs. Maybe it's worth adding a Documentation/ file describing how to use the pid namespaces, ideal semantics, and current shortcomings, for people who want to use+test the feature rather than work with the kernel code.

-serge

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