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Subject: Re: [PATCH] Allow signalling container-init  
Posted by [Daniel Pittman](#) on Thu, 09 Aug 2007 01:29:06 GMT  
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"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, worth documenting so that people trying to use this code are aware of the limitation.

Regards,

Daniel

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