
Subject: Re: containers development plans
Posted by [serge](#) on Tue, 10 Jul 2007 20:33:26 GMT
[View Forum Message](#) <> [Reply to Message](#)

Quoting Herbert Poetzl (herbert@13thfloor.at):

> On Mon, Jul 02, 2007 at 11:55:04AM -0500, Serge E. Hallyn wrote:
> > We are trying to create a roadmap for the next year of
> > 'container' development, to be reported to the upcoming kernel
> > summit. Containers here is a bit of an ambiguous term, so we are
> > taking it to mean all of:
> >
> > 1. namespaces
> > 2. process containers
> > 3. checkpoint/restart
> >
> > Naturally we can't actually predict what will and won't be worked on,
> > let alone what will be going upstream. But the following is a list
> > of features which it seems reasonable to think might be worked on
> > next year:
> >
> > 1. completion of ongoing namespaces
> > pid namespace
> > net namespace
> > ro bind mounts
>
> > 2. continuation with new namespaces
> > devpts, console, and ttydrivers
> > user
> > time
>
> various accounting and limits including disk space
> and memory

Is it fair to leave that under task container subsystems?

> > namespace management tools
> > namespace entering
>
> well, that is currently covered by the Linux-VServer
> interfaces (and I assume by the OpenVZ API too), but
> I guess you are more interested in a mainline tool
> and interface

I'm interested in anything someone is willing to try to push
upstream :)

> > 3. any additional work needed for virtual servers?
> > i.e. in-kernel keyring usage for cross-username namespace permissions, etc

>
> nfs and rpc, as well as general security/auth
> frameworks have to be adjusted ...
>
> > 4. task containers functionality
> > base features
> > specific containers
> > poll to see who has plans
> > 5. checkpoint/restart
> > memory c/r
> > (there are a few designs and prototypes)
> > (though this may be ironed out by then)
> > per-container swapfile?
> > overall checkpoint strategy
> > in-kernel vs userspace-driven
> > overall restart strategy
> >
> > What more needs to be added to this list?
> >
> > A list of the people we are currently aware of who are showing interest
> > in these features follows. What I'd like to know is, from this list, do
> > some people know what general or specific areas they plan to or want to
> > work on over the next year?
> >
> > Stakeholders:
> > Eric Biederman
> > google
> > ibm
> > kerlabs
> > openvz
> > osdl (Masahiko Takahashi?)
> > vserver
> >
> > Who is missing from the list?
>
> Linux-VServer as usual :)

I stand corrected as usual.

-serge

Containers mailing list
Containers@lists.linux-foundation.org
<https://lists.linux-foundation.org/mailman/listinfo/containers>
