
Subject: Re: containers development plans
Posted by [serge](#) on Tue, 10 Jul 2007 20:33:26 GMT
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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-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>
