
Subject: Re: containers development plans

Posted by [Herbert Poetzl](#) on Mon, 09 Jul 2007 12:12:57 GMT

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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

- > 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

- > 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 :)

best,
Herbert

> thanks,
> -serge

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

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