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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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