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Subject: Re: containers development plans  
Posted by [serue](#) on Mon, 02 Jul 2007 21:53:15 GMT  
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Quoting Erich Focht (efocht@hpce.nec.com):

> Hi,  
>  
> On Monday 02 July 2007 18:55, Serge E. Hallyn wrote:  
> > 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?  
>  
> you could add the XtreamOS project to the list. It's grid project and we  
> need to use containers for grid job isolation. We're currently using BLCR  
> for checkpointing, and also kerrighed, but aim at switching to containers  
> and will work on container checkpointing. XtreamOS is related to  
> kerlabs & kerrighed, but has broader interests in containers.

That's cool. I'll go read up on XtreamOS before I ask stupid questions...

> > What more needs to be added to this list?  
>  
> By the way, there are potential synergies between container checkpointing  
> work and the need of the VM to have something like per cpuset or per  
> container swap (as explained in the VM BoFS at OLS, there are unnecessary  
> OOMs with a common swap).

Ah, cool, I hadn't heard that. At the risk of really exploding the # of container subsystems needed to be composed in order to do checkpoint/restart, this does sound like a separate container subsystem which just attaches a swapfile to it's tasks might then be a useful thing. It can then be composed with a cpuset or a freezer subsystem, or both (at the same time - separately might be weird :).

I guess then for checkpoint we just freeze the subsystem, force a write

of all dirty pages using something like Dave's patch, somehow create a copy-on-write clone as the checkpoint, then unfreeze. (and oh yeah, checkpoint all the other crap too :)

> Regards,  
> Erich

thanks,  
-serge

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

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