
Subject: Re: [PATCH] containers: define a namespace container subsystem

Posted by [serue](#) on Fri, 02 Feb 2007 17:23:08 GMT

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Quoting Cedric Le Goater (clg@fr.ibm.com):

>
> > The next steps are (not necessarily in order):
> >
> > 1. allow rm -rf to kill all processes under a
> > ns_container - with the intent of killing all
> > processes in a virtual server
> >
> > 2. implement transitioning into a populated container,
> > with the effect of setting the task's nsproxy to
> > the one represented by the container.
> >
> > 3. define a file for each type of namespace in each
>
> could that file be a directory exposing some critical data
> from each namespace ?

it probably could be, but that might be confusing since subcontainers are also directories. Would just putting the data into the namespace files suffice? This isn't sysfs so no 1-value-per-file restrictions...

> I would imagine the network devices for the net namespace
> and be able to interact with them (Daniel ?). the task list
> for the pid namespace, etc.

Well the tasklist will already be in the 'tasks' file created by the containers code :)

But actually, making them directories might actually be easier, because iirc cftypes only have f_ops right now, whereas dirs already have i_ops, so doing the symlink magic should be easier that way.

Great idea! :)

thanks,
-serge

> > ns_container, with the i_op->symlink() defined to
> > allow creation of a new ns_container which references
> > only some of the namespace pointers of an existing
> > (child) container. All other namespaces will be
> > taken from the existing process. In this way it
> > is possible to enter just a network namespace of
> > some vserver.

> > 4. probably make containers mac-aware, that is add a
> > ->security pointer, and LSM hooks at appropriate
> > points so that, for instance, SELinux can control
> > vserver kill and enters.
> >

Containers mailing list

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<https://lists.osdl.org/mailman/listinfo/containers>
