
Subject: Re: [RFC PATCH 0/4] Container Freezer: Reuse Suspend Freezer
Posted by [serue](#) on Fri, 04 Apr 2008 14:11:06 GMT
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Quoting Paul Menage (menage@google.com):

> On Thu, Apr 3, 2008 at 2:03 PM, <matthltc@us.ibm.com> wrote:

> >

> > * "freezer.kill"

> >

> > writing <n> will send signal number <n> to all tasks

> >

>

> My first thought (not having looked at the code yet) is that sending a
> signal doesn't really have anything to do with freezing, so it
> shouldn't be in the same subsystem. Maybe a separate subsystem called
> "signal"?

>

> And more than that, it's not something that requires any particular
> per-process state, so there's no reason that the subsystem that
> provides the "kill" functionality shouldn't be able to be mounted in
> multiple hierarchies.

>

> How about if I added support for stateless subsystems, that could
> potentially be mounted in multiple hierarchies at once? They wouldn't
> need an entry in the css set, since they have no state.

>

> > * Usage :

> >

> > # mkdir /containers/freezer

> > # mount -t container -ofreezer freezer /containers/freezer

> > # mkdir /containers/freezer/0

> > # echo \$some_pid > /containers/freezer/0/tasks

> >

> > to get status of the freezer subsystem :

> >

> > # cat /containers/freezer/0/freezer.freeze

> > RUNNING

> >

> > to freeze all tasks in the container :

> >

> > # echo 1 > /containers/freezer/0/freezer.freeze

> > # cat /containers/freezer/0/freezer.freeze

> > FREEZING

> > # cat /containers/freezer/0/freezer.freeze

> > FROZEN

>

> Could we separate this out into two files? One called "freeze" that's
> a 0/1 for whether we're intending to freeze the subsystem, and one

- > called "frozen" that indicates whether it is frozen? And maybe a
- > "state" file to report the RUNNING/FREEZING/FROZEN distinction in a
- > human-readable way?

One thing Oren had mentioned for checkpoint/restart was having more states - i.e. restoring, checkpointing... So then (assuming we used this subsystem for that) we'd have more than the two files. Which is probably fine, just wanted to point that out.

-serge

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