Subject: Re: [RFC][PATCH 0/4] Container Freezer
Posted by serue on Wed, 20 Jun 2007 16:50:38 GMT
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Quoting Cedric Le Goater (clg@fr.ibm.com):
> This patchset is a prototype using the container infrastructure and
> the swsusp freezer to freeze a group of tasks.
>
> 2 files are defined by the freezer subsystem in the container
> filesystem :
>
> * "freezer.freeze"
>
> writing 1 will freeze all tasks and 0 unfreeze
> reading will return the status of the freezer
>
> * "freezer.kill"
>
> writing <n> will send signal number <n> to all tasks
>
> * Usage :
>
> # mkdir /containers/freezer
> # mount -t container -ofreezer freezer /containers/freezer
> # mkdir /containers/freezer/0
> # echo $some_pid > /containers/freezer/0/tasks

I'd like to point out that by composing this with the nsproxy subsystem
(which I've done and tested), you can

 mount -t container -ons,freezer nsproxy /containers/freezer

Then you get a new freezer subsystem automatically for every unshare
that you do, avoiding the need to to manually do

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

thanks,
-serge

> 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
>
> to unfreeze all tasks in the container :
>
>   # echo 1 > /containers/freezer/0/freezer.freeze
>   # cat /containers/freezer/0/freezer.freeze
>   RUNNING
>
> to kill all tasks in the container :
>
>   # echo 9 > /containers/freezer/0/freezer.kill
>
> * Caveats:
>
>   - the FROZEN status is calculated and changed when the container
>   file "freezer.freeze" is read.
>   - frozen containers will be unfreeze when a system is resumed after
>   a suspend. This is addressed by the last patch.
>
> * Series
>
>   The first patches make the freezer available to all architectures
>   before implementing the freezer subsystem.
>
>   - add the TIF_FREEZE flag to all archs
>   - make refrigerator() available to all archs
>   - implement freezer subsystem
>   - do not unfreeze a frozen container when the system is resumed
>
> Comments are welcome.
>
> Thanks,
>
> C.
> _____
> Containers mailing list
> Containers@lists.linux-foundation.org
> https://lists.linux-foundation.org/mailman/listinfo/containers

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