
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 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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Subject: Re: [RFC][PATCH 0/4] Container Freezer
Posted by [Cedric Le Goater](#) on Thu, 21 Jun 2007 13:23:08 GMT
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Serge E. Hallyn wrote:

```
> 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 manually do  
>  
> echo $some_pid > /containers/freezer/0/tasks
```

I guess that's true for any subsystem. right ?

C.

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