
Subject: Re: [ckrm-tech] [PATCH 0/2] resource control file system - aka containers on top of nsproxy!

Posted by [Srivatsa Vaddagiri](#) on Mon, 12 Mar 2007 15:07:56 GMT

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On Fri, Mar 09, 2007 at 02:09:35PM -0800, Paul Menage wrote:

> > 3. This next leads me to think that 'tasks' file in each directory doesnt make
> > sense for containers. In fact it can lend itself to error situations (by
> > administrator/script mistake) when some tasks of a container are in one
> > resource class while others are in a different class.

> >

> > Instead, from a containers pov, it may be usefull to write
> > a 'container id' (if such a thing exists) into the tasks file
> > which will move all the tasks of the container into
> > the new resource class. This is the same requirement we
> > discussed long back of moving all threads of a process into new
> > resource class.

>

> I think you need to give a more concrete example and use case of what
> you're trying to propose here. I don't really see what advantage
> you're getting.

Ok, this is what I had in mind:

```
mount -t container -o ns /dev/namespace
mount -t container -o cpu /dev/cpu
```

Lets we have the namespaces/resource-groups created as under:

```
/dev/namespace
|-- prof
|  |-- tasks <- (T1, T2)
|  |-- container_id <- 1 (doesnt exist today perhaps)
|
|-- student
|  |-- tasks <- (T3, T4)
|  |-- container_id <- 2 (doesnt exist today perhaps)
```

```
/dev/cpu
|-- prof
|  |-- tasks
|  |-- cpu_limit (40%)
|
|-- student
|  |-- tasks
|  |-- cpu_limit (20%)
|
```

|

Is it possible to create the above structure in container patches?
/me thinks so.

If so, then accidentally someone can do this:

```
echo T1 > /dev/cpu/prof/tasks  
echo T2 > /dev/cpu/student/tasks
```

with the result that tasks of the same container are now in different resource classes.

Thats why in case of containers I felt we shldnt allow individual tasks to be cat'ed to tasks file.

Or rather, it may be nice to say :

```
echo "cid 2" > /dev/cpu/prof/tasks
```

and have all tasks belonging to container id 2 move to the new resource group.

--

Regards,
vatsa

Containers mailing list
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