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Subject: Re: [ckrm-tech] [PATCH] BC: resource beancounters (v4) (added user memory)

Posted by [Rohit Seth](#) on Mon, 11 Sep 2006 19:10:31 GMT

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On Mon, 2006-09-11 at 11:25 -0700, Chandra Seetharaman wrote:

> On Fri, 2006-09-08 at 14:43 -0700, Rohit Seth wrote:

> <snip>

>

> > > > Guarantee may be one of

> > > >

> > > > 1. container will be able to touch that number of pages

> > > > 2. container will be able to sys\_mmap() that number of pages

> > > > 3. container will not be killed unless it touches that number of pages

> > > > 4. anything else

> > >

> > > I would say (1) with slight modification

> > > "container will be able to touch \_at least\_ that number of pages"

> > >

> >

> > Does this scheme support running of tasks outside of containers on the

> > same platform where you have tasks running inside containers. If so

> > then how will you ensure processes running out side any container will

> > not leave less than the total guaranteed memory to different containers.

> >

>

> There could be a default container which doesn't have any guarantee or

> limit.

First, I think it is critical that we allow processes to run outside of any container (unless we know for sure that the penalty of running a process inside a container is very very minimal).

And anything running outside a container should be limited by default Linux settings.

> When you create containers and assign guarantees to each of them

> make sure that you leave some amount of resource unassigned.

~~~~~ This will force the "default" container

with limits (indirectly). IMO, the whole guarantee feature gets defeated the moment you bring in this fuzziness.

> That

> unassigned resources can be used by the default container or can be used

> by containers that want more than their guarantee (and less than their

> limit). This is how CKRM/RG handles this issue.

>

>

It seems that a single notion of limit should suffice, and that limit should more be treated as something beyond which that resource consumption in the container will be throttled/not\_allowed.

-rohit

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