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

Posted by [Pavel Emelianov](#) on Wed, 13 Sep 2006 13:39:22 GMT

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Balbir Singh wrote:

> Pavel Emelianov wrote:

> <snip>

>

>>>>> E.g. I have a node with 1Gb of ram and 10 containers with 100Mb

>>>>> guarantee each.

>>>>> I want to start one more. What shall I do not to break guarantees?

>>>>> Don't start the new container or change the guarantees of the

>>>>> existing

>>>>> ones

>>>>> to accommodate this one :) The QoS design (done by the administrator)

>>>>> should

>>>>> take care of such use-cases. It would be perfectly ok to have a

>>>>> container

>>>>> that does not care about guarantees to set their guarantee to 0

>>>>> and set

>>>>> their limit to the desired value. As Chandra has been stating we

>>>>> need two

>>>>> parameters (guarantee, limit), either can be optional, but not both.

>>>> If I set up 9 groups to have 100Mb limit then I have 100Mb assured (on

>>>> 1Gb node)

>>>> for the 10th one exactly. And I do not have to set up any guarantee as

>>>> it won't affect

>>>> anything. So what a guarantee parameter is needed for?

>>> This use case works well for providing guarantee to one container.

>>> What if

>>> I want guarantees of 100Mb and 200Mb for two containers? How do I setup

>>> the system using limits?

>> You may set any value from 100 up to 800 Mb for the first one and

>> 200-900Mb for

>> the second. In case of no other groups first will receive its 100Mb for

>> sure and

>> so does the second. If there are other groups - their guarantees should

>> be concerned.

>

> If I add another group with a guarantee of 100MB, then its limit will

> be anywhere between 100MB-800MB ?

I've described this in details in my letter to sekharan@.

>

> I do not understand the guarantees being concerned part.

>

>>> Even I restrict everyone else to 700Mb. With this I cannot be sure that

>>> the remaining 300Mb will be distributed as 100Mb and 200Mb.

>> There's no "everyone else" here - we're talking about a "static" case.  
>> When new group arrives we need to recalculate guarantees as you said.  
>  
> I was speaking in general where we have 'n' groups, so thats why I had  
> "everyone else".  
Well, when we talk about guarantee this implies that the number  
of group doesn't chage - when it does limits/guarantees generally  
must be recalculated to satisfy new group set.

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