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

Posted by [Pavel Emelianov](#) on Mon, 18 Sep 2006 08:56:14 GMT

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Balbir Singh wrote:

[snip]

> This approach has the following disadvantages

> 1. Lets consider initialization - When we create 'n' groups

> initially, we need

> to spend $O(n^2)$ time to assign guarantees.

1. Not guarantees - limits. If you do not need guarantees - assign overcommitted limits. Most of OpenVZ users do so and nobody claims.

2. If you start n groups at once then limits are calculated in $O(n)$ time, not $O(n^2)$.

> 2. Every time a limit or a guarantee changes, we need to recalculate

> guarantees

> and ensure that the change will not break any guarantees

The same.

> 3. The same thing as stated above, when a resource group is created
> or deleted

>

> This can lead to some instability; a change in one group propagates to

> all other groups.

Let me cite a part of your answer on my letter from 11.09.2006:

"...

xemul> I have a node with 1Gb of ram and 10 containers with 100Mb

xemul> guarantee each. I want to start one more.

xemul> 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 ... 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

..."

The same for the limiting - either do not start new container, or recalculate limits to meet new requirements. You may not take care of guarantees as weel and create an overcommitted configuration.

And one more thing. We've asked it many times and I ask it again -

please, show us the other way for providing guarantee rather than limiting or reserving.
