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

Posted by [dev](#) on Fri, 15 Sep 2006 08:51:24 GMT

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Chandra,

>>>>What if I have 40 containers each with 2% guarantee ? what do we do  
>>>>then ? and many other different combinations (what I gave was not the  
>>>>\_only\_ scenario).

>>>>

>>>>

>>>

>>>Then you need to solve a set of 40 equations. This sounds weird, but  
>>>don't afraid - sets like these are solved lightly.

>>>

>>

>>extrapolate that to a varying # of permutations and real time changes in  
>>the system workload. Won't it be complex ?

>>

>

> I have a C program that computes limits to obtain desired guarantees

> in a single 'for (i = 0; i < n; n++)' loop for any given set of guarantees.

> With all error handling, beautifull output, nice formatting etc it weights

> only 60 lines.

>

>>Wouldn't it be a lot simpler if we have the guarantee support instead ?  
the calculation above doesn't seem hard :)

>>Why you do not like guarantee ? :)

> I do not 'do not like guarantee'. I'm just sure that there are two ways

> for providing guarantee (for unreclaimable resorces):

> 1. reserving resource for group in advance

> 2. limit resource for others

> Reserving is worse as it is essentially limiting (you cut off 100Mb from

> 1Gb RAM thus limiting the other groups by 900Mb RAM), but this limiting

> is too strict - you \_have\_ to reserve less than RAM size. Limiting in

> run-time is more flexible (you may create an overcommitted BC if you

> want to) and leads to the same result - guarantee.

I think this deserves putting on Wiki.

It is very good clear point.

Chanrda, do you propose some 3rd way (we are unaware of) of implementing guarantees?

Thanks,

Kirill

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