
Subject: Re: [ckrm-tech] [patch00/05]: Containers(V2)- Introduction
Posted by [Paul Jackson](#) on Wed, 20 Sep 2006 20:49:03 GMT
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Paul M wrote:

> Even if the resource control portions aren't totally compatible,
> having two separate process container abstractions in the kernel is
> sub-optimal

At heart, CKRM (ne Resource Groups) are (well, have been until now) different than cpusets.

Cpusets answers the question 'where', and Resource Groups 'how much'.

The fundamental motivation behind cpusets was to be able to enforce job isolation. A job can get dedicated use of specified resources, -even- if it means those resources are severely underutilized by that job.

The fundamental motivation (Chandra or others correct me if I'm wrong) of Resource Groups is to improve capacity utilization while limiting starvation due to greedy, competing users for the same resources.

Cpusets seeks maximum isolation. Resource Groups seeks maximum capacity utilization while preserving guaranteed levels of quality of service.

Cpusets are that wall between you and the neighbor you might not trust. Resource groups are a large family of modest wealth sitting down to share a meal.

It seems that cpusets can mimic memory resource groups. I don't see how cpusets could mimic other resource groups. But maybe I'm just being a dimm bulb.

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I won't rest till it's the best ...
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