
Subject: Re: [patch00/05]: Containers(V2)- Introduction
Posted by [Alan Cox](#) on Wed, 20 Sep 2006 17:10:57 GMT

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Ar Mer, 2006-09-20 am 09:25 -0700, ysgrifennodd Christoph Lameter:

> We already have such a functionality in the kernel its called a cpuset. A
> container could be created simply by creating a fake node that then
> allows constraining applications to this node. We already track the
> types of pages per node. The statistics you want are already existing.
> See /proc/zoneinfo and /sys/devices/system/node/node*/*.

CPUsets don't appear to scale to large numbers of containers (say 5000, with 200-500 doing stuff at a time). They also don't appear to do any tracking of kernel side resource objects, which is critical to containment. Indeed for some of us the CPU management and user memory management angle is mostly uninteresting.

I'm also not clear how you handle shared pages correctly under the fake node system, can you perhaps explain that further how this works for say a single apache/php/glibc shared page set across 5000 containers each a web site.

Alan
