
Subject: Re: [ckrm-tech] [patch00/05]: Containers(V2)- Introduction
Posted by [Chandra Seetharaman](#) on Thu, 21 Sep 2006 20:06:26 GMT
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On Wed, 2006-09-20 at 18:52 -0700, Paul Menage wrote:

> On 9/20/06, Chandra Seetharaman <sekharan@us.ibm.com> wrote:

> >

> > Interesting. So you could set up the fake node with "guarantee" and let
> > it grow till "limit" ?

>

> Sure - that works great. (Theoretically you could do this all in
> userspace - start by assigning "guarantee" nodes to a
> container/cpuset and when it gets close to its memory limit assign
> more nodes to it. But in practice userspace can't keep up with rapid
> memory allocators.

>

I agree, especially when one of your main object is resource
utilization. Think about the magnitude of this when you have to deal
with 100s of containers.

> >

> > BTW, can you do these with fake nodes:

> > - dynamic creation

> > - dynamic removal

> > - dynamic change of size

>

> The current fake numa support requires you to choose your node layout
> at boot time - I've been working with 64 fake nodes of 128M each,
> which gives a reasonable granularity for dividing a machine between
> multiple different sized jobs.

It still will not satisfy what OpenVZ/Container folks are looking for:
100s of containers.

>

> >

> > Also, How could we account when a process moves from one node to
> > another ?

>

> If you want to do that (the systems I'm working on don't really) you
> could probably do it with the migrate_pages() syscall. It might not be
> that efficient though.

Totally agree, that will be very costly.

>

> Paul

--

Chandra Seetharaman | Be careful what you choose....
- sekharan@us.ibm.com |you may get it.
