Subject: Re: [ckrm-tech] [PATCH 0/7] containers (V7): Generic Process Containers
Posted by Paul Menage on Tue, 13 Feb 2007 00:42:15 GMT
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On 2/12/07, Sam Vilain <sam@vilain.net> wrote:
> Ask yourself this - what do you need the container structure for so
> badly, that virtualising the individual resources does not provide for?

Primarily, that otherwise every module that wants to affect/monitor behaviour of a group of associated processes has to implement its own process grouping abstraction.

As an example, the CPU accounting patch that in included in my patch set as an illustration of a simple resource monitoring module is just 250 lines, almost entirely in one file; if it also had to handle associating tasks together into groups and presenting a filesystem interface to the user it would be far larger and would have a much bigger footprint on the kernel.

>From the point of view of the virtual server containers, the advantage is that you're integrated with a standard filesystem interface for determining group membership. It does become simpler to combine virtual servers and resource controllers, although I grant you that you could juggle that from userspace without the additional kernel support.

Paul

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Containers mailing list
Containers@lists.osdl.org
https://lists.osdl.org/mailman/listinfo/containers