
Subject: Re: containers development plans (July 10 version)

Posted by [Balbir Singh](#) on Wed, 11 Jul 2007 06:31:57 GMT

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Paul Menage wrote:

> On 7/10/07, Serge E. Hallyn <serge@hallyn.com> wrote:

>>

>> A (still under construction) list of features we expect to be worked on

>> next year looks like this:

>> 4. task containers functionality

>> specific containers

>

> A couple of more container subsystem requests that have come out of

> the Linux Foundation Japan symposium, although I think they've also

> been mentioned before more than once - per-container swap and disk I/O

> scheduling.

>

I think per container swap is interesting

> I'm not familiar enough with the current Linux disk scheduler code to

> know how easy/hard it is to add rate guarantees on a per-container

> basis, but the swap one should be easier.

>

> One potential issue with the swap container is how integrated should

> it be with the memory controller? I can certainly see people wanting

> to be able to use a swap controller without requiring a page-based

> memory controller (e.g. you might want to combine it with node-based

> control via cpusets instead) but adding two pointers to the mm_struct,

> one for swap controller subsystem and one for memory controller

> subsystem, seems a little bit ugly.

>

Well, it depends on how you define ugly. We could do something like the namespace approach, have something like

```
struct mem_container_ptrs {
    swap_list;
    mem_container_ptr;
};
```

Although, I agree that per container swap is important, I feel that we should add in the functionality, once we have basic page based memory controller. It would make the whole setup easier to test for functionality and performance.

> Paul

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Warm Regards,
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