Subject: containers development plans Posted by serge on Mon, 02 Jul 2007 16:55:04 GMT View Forum Message <> Reply to Message

We are trying to create a roadmap for the next year of 'container' development, to be reported to the upcoming kernel summit. Containers here is a bit of an ambiguous term, so we are taking it to mean all of:

- 1. namespaces
- 2. process containers
- 3. checkpoint/restart

Naturally we can't actually predict what will and won't be worked on, let alone what will be going upstream. But the following is a list of features which it seems reasonable to think might be worked on next year:

1. completion of ongoing namespaces

pid namespace

net namespace

ro bind mounts

2. continuation with new namespaces

devpts, console, and ttydrivers

user

time

namespace management tools

namespace entering

- 3. any additional work needed for virtual servers?
- i.e. in-kernel keyring usage for cross-usernamespace permissions, etc
- 4. task containers functionality
 - base features

specific containers

- poll to see who has plans
- 5. checkpoint/restart

memory c/r

(there are a few designs and prototypes) (though this may be ironed out by then) per-container swapfile? overall checkpoint strategy in-kernel vs userspace-driven overall restart strategy

What more needs to be added to this list?

A list of the people we are currently aware of who are showing interest in these features follows. What I'd like to know is, from this list, do some people know what general or specific areas they plan to or want to work on over the next year?

Stakeholders: Eric Biederman google ibm kerlabs openvz osdl (Masahiko Takahashi?) vserver

Who is missing from the list?

thanks, -serge

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