Subject: Re: containers development plans Posted by dev on Thu, 12 Jul 2007 10:32:27 GMT View Forum Message <> Reply to Message

Paul Menage wrote: > On 7/2/07, Serge E. Hallyn <serge@hallyn.com> wrote: > 4. task containers functionality >> > > > How about if we adopt "process containers" or "task containers" as the > term for the generic container framework, to distinguish from more > general user-space containers? In the same way that "task_struct" in > the kernel is understood to be separate from the concept of a "task" > in a job scheduling system in userspace. > > base features >> > > > Features that I'd like to see in the short and medum term: > > - support for virtualized containerfs mounts, so that virtual servers > can mount their own containerfs and manage sub-containers > > - automatically prefixing control file names with the subsystem name, > unless changed or disabled by the user at mount time > > - removing unnecessary locking where possible. > simplifying the control file API > > > - a userspace RBCE along with simple configuration so that you can > easily use generic containers to apply subsystem controls on a > per-user, per-group, per-pgrp, per-executable, etc, basis. (E.g. to > easily apply CFS to be fair between pgrps rather than fair between > processes) > > specific containers >> poll to see who has plans >> > > > Some possible subsystems that I'm thinking of include: > > - splitting the memory and cpu isolation parts of cpusets into two > separate subsystems (still backwards-compatible) >

- > some kind of network connect/bind/accept controller. Eric came up
- > with a nice way of doing this by adding iptables hooks for
- > connect/bind/accept, and then adding an iptables match module that
- > could match based on container id. This would give us all the
- > flexibility of iptables and the existing iptables tools. The drawback
- > is that it could be rather tricky to virtualize. A less flexible
- > solution that just allowed you to specify permitted
- > local-port-range/remote-port-range/remote-netmask tuples would be more
- > virtualizable, even if it doesn't make as much reuse of existing
- > iptables support.

Not sure why it requires some additional controller, but surely it is possible to create a match for iptables matching container ID. Is it what you are thinkinh about or I got something wrong?

Thanks, Kirill

Page 2 of 2 ---- Generated from OpenVZ Forum