
Subject: Re: [PATCH 0/9] namespaces: Introduction
Posted by [Sam Vilain](#) on Sat, 20 May 2006 00:16:04 GMT
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On Fri, 2006-05-19 at 17:47 +0400, Andrey Savochkin wrote:

> We can start with presenting and merging the most interesting part, network
> containers. We discuss details, possible approaches, and related subsystems,
> until networking is finished to its utmost detail.
> This will create an example of virtualization of a non-trivial subsystem,
> and we will have to agree on basic principles of virtualization of related
> subsystems like proc.

[...]

> What do people think about this plan?

Network is an interesting one because you have multiple solutions - the very simple approach of network binding (as used by Jacques Gelina's original IP vhost work from December 1997), and network virtualisation. That virtualisation itself can be broken down into providing merely virtual interfaces (so that, for instance, you can have independent lo interfaces in the virtual servers) as in Vserver 2.1.x, or providing a completely virtualised network stack, as in Vserver ngnet (and possibly OpenVZ?).

Each solution performs the virtualisation at a different level, and has incrementally higher orders of inefficiency and maintenance requirements. Yet none of them are essentially better or worse than the others.

So, we might end up with all three eventually - but binding alone is the simplest and still extremely useful.

Sam.
