Subject: Re: [patch 2/6] [Network namespace] Network device sharing by view Posted by ebiederm on Wed, 28 Jun 2006 15:36:40 GMT

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Herbert Poetzl herbert@13thfloor.at writes:

> On Wed, Jun 28, 2006 at 06:31:05PM +1200, Sam Vilain wrote: >> Eric W. Biederman wrote: >> > Have a few more network interfaces for a layer 2 solution >> > is fundamental. Believing without proof and after arguments >> > to the contrary that you have not contradicted that a layer 2 >> > solution is inherently slower is non-productive. Arguing >> > that a layer 2 only solution most prove itself on guest to guest >> > communication is also non-productive. >> > >> >> Yes, it does break what some people consider to be a sanity condition >> when you don't have loopback anymore within a guest. I once experimented >> with using 127.* addresses for per-quest loopback devices with vserver >> to fix this, but that couldn't work without fixing glibc to not make >> assumptions deep in the bowels of the resolver. I logged a fault with >> gnu.org and you can guess where it went :-). > this is what the lo* patches address, by providing > the required loopback isolation and providing lo > inside a guest (i.e. it looks and feels like a > normal system, except that you cannot modify the

Ok. This is new. How do you talk between guests now? Before those patches it was through IP addresses on the loopback interface as I recall.

> guests (where INADDR ANY gets rewritten to the

> interfaces from inside)

> single IP)

What is the mechanism there?

My rough extrapolation says this mechanism causes problems when migrating between machines. In particular it sounds like only one process can bind to *:80, even if it is only allowed to accept connections from a subset of those IPs.

So if on another machine I bound something to *:80 and only allowed to use a different set of IPs and then attempted to migrate it, the migration would fail because I could not restart the application, with all of it's layer 3 resources.

To be clear I assume when I migrate I always take my IP address or addresses with me.

Eric