## Subject: Re: [RFD] L2 Network namespace infrastructure Posted by ebiederm on Sat, 23 Jun 2007 17:26:28 GMT

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Ben Greear <greearb@candelatech.com> writes:

- > Patrick McHardy wrote: >> Eric W. Biederman wrote: >> >>> -- The basic design >>> >>> There will be a network namespace structure that holds the global >>> variables for a network namespace, making those global variables >>> per network namespace. >>> >>> One of those per network namespace global variables will be the >>> loopback device. Which means the network namespace a packet resides >>> in can be found simply by examining the network device or the socket >>> the packet is traversing. >>> >>> Either a pointer to this global structure will be passed into >>> the functions that need to reference per network namespace variables >>> or a structure that is already passed in (such as the network device) >>> will be modified to contain a pointer to the network namespace >>> structure. >>> >> >> I believe OpenVZ stores the current namespace somewhere global, >> which avoids passing the namespace around. Couldn't you do this >> as well? >>
- > Will we be able to have a single application be in multiple name-spaces?

A single application certainly. But then an application can be composed of multiple processes which can be composed of multiple threads.

In my current patches a single task\_struct belongs to a single network namespace. That namespace is used when creating sockets. The sockets themselves have a namespace tag and that is used when transmitting packets, or otherwise operating on the socket.

So if you pass a socket from one process to another you can have sockets that belong to different network namespaces in a single task.

Eric		
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