Subject: Re: namespace support requires network modules to say "GPL" Posted by Ben Greear on Tue, 04 Dec 2007 19:35:47 GMT

View Forum Message <> Reply to Message

## Eric W. Biederman wrote:

> Ben Greear <greearb@candelatech.com> writes:

>

- >> Eric W. Biederman wrote:
- >>> However there also seem to be simpler cases like Ben's bridge module,
- >>> that don't appear to have any global state.

>>>

- >> Well, my module has some global state, but I don't think it needs to care about
- >> namespaces. My first impression is that my module should be able to bridge
- >> namespaces...not be contained within one. I can have user-space make sure that
- >> I don't bridge between
- >> devices in different name-spaces, or perhaps bridging between namespaces
- >> wouldn't be a problem anyway.

>

- > Bridging between namespaces should not be a problem, but it could be
- > a bit of a challenge to setup (in finding the network devices).
- > Probably the easy way is to setup the bridging and then move one of the
- > network devices to the other network namespace.

>

- > Essentially bridging between two network devices in two network
- > namespaces looks like bridging between two network devices on two
- > separate network stacks. Although internally things look a little
- > better.

Ok, that sounds fine.

>> Currently I use procfs and ioctls bound to a procfs file descriptor.

>

- > Which is where it gets tricky You are defining new userspace ABIs.
- > I can see where they occasionally make sense during development
- > and prototyping but long term out of tree userspace interfaces appear
- > to me to be a real maintenance problem.

They are completely contained within my module, and no one is going to change my module w/out me knowing, so actually I have very little problem here:)

- >> For namespaces in general, will there be a way to just do a dev\_get\_by\_\* and
- >> find the
- >> device in \*any\* namespace and query the device to see what namespace it is in?
- >> Then my module or some other more clever piece of code can determine the
- >> namespaces
- >> (by comparing pointers if nothing else) and make proper decision. For instance,
- >> maybe

>> we want to bridge two namespaces, or maybe we want to forbid that ever >> happening...

>

- > The issue is that fundamentally all userspace device identifiers can
- > be duped between namespaces. So since there is no unique identifier
- > we can not implement a function to do that.

Ok, but can a netdev at least know what namespace it is in? I don't need this for my module, but it seems very useful knowledge...

Thanks, Ben

--

Ben Greear <greearb@candelatech.com>
Candela Technologies Inc http://www.candelatech.com

\_\_\_\_\_

Containers mailing list Containers@lists.linux-foundation.org https://lists.linux-foundation.org/mailman/listinfo/containers