Subject: Re: dev\_change\_netns on a tunnel device Posted by ebiederm on Tue, 19 Jun 2007 17:07:46 GMT

View Forum Message <> Reply to Message

"Sapan Bhatia" <sapan.bhatia@gmail.com> writes:

> Hi Eric,

>

- > Are the current semantics of tunnel devices (ipip, ip gre etc.) with
- > respect to changing the current netns correct? These devices have an
- > ip\_tunnel structure associated with each net\_device, which is
- > currently a global (not per net). The result is that you can set up in
- > container X a tunnel with endpoints associated with a device in
- > container Y in a different network namespace. This feature seems
- > useful, because you can hook up containers on 2 machines with one of
- > these tunnels, without using etun (or like) devices, but intuitively,
- > it seems that the tunnel module should be listening for a
- > DEV\_UNREGISTER and reset it when the device is migrated

Good question. Examining the ipip case here is my conclusion.

- Because the directing of packets is based on ip address and multiple network namespaces are allowed to use the same ip addresses then the decode needs to take the network namespace into account.
- The only thing that would prevent the migration semantics from being correct is if you could manipulate a migrated tunnel in such a way that you could do something nasty to the source namespace.

Since a tunnel change command is also a tunnel rename command that should force any ipip tunnel into using ip addresses from the current namespace, which makes it safe, and thus unable to affect the source namespace.

So semantically I believe the tunnel semantics are essentially correct. However I believe there are several places where the code needs to be updated to correctly implement those semantics.

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

Г»: a