Subject: Re: [patch 1/1][NETNS][IPV6] protect addrconf from loopback registration Posted by den on Mon, 12 Nov 2007 16:47:10 GMT

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- >> why should we care on down? we are destroying the device. It should
- >> gone. All references to it should also gone. So, we should perform the
- >> cleaning and remove all IPv6 addresses, so notifier should also work.

> We need to take care of netdev down, someone can put the loopback down > if he wants.

- >> The code relies on the "persistent" loopback and this is a bad thing.
- >> This is longstanding bug in the code, that the dst_entry should have a
- >> valid reference to a device. This is the only purpose for a loopback
- >> persistence. Though, at the namespace death no such entries must be and
- >> this will be checked during unregister process. This patch definitely
- >> breaks this assumption :(

>>

- >> Namespaces are good to catch leakage using standard codepaths, so they
- >> should be preserved as much as possible. So, _all_ normal down code
- >> should be called for a loopback device in other than init net context.

- > I agree with you, this is a bug in ipv6 and the loopback; when playing
- > with ipv6 we found that the loopback is still referenced 9 times when
- > the system is shutdown.

Pff... I can't guess right now where the error can be :(We have correct behavior of loopback even for IPv6 within OpenVZ. On down the count is 0 and device is destroyed correctly without these kludges. So, something is definitely wrong.

- > The purpose of this patch is to protect the __actual__ code from the new
- > loopback behavior. We are looking at a more generic approach with the
- > namespace for ipv6, as you mentioned, namespaces are good for network
- > leakage detection as we create several instances of the network stack.

The only kludge required is already in place, addrconf_ifdown has a protection for init net.

```
if (dev == init_net.loopback_dev && how == 1)
how = 0:
```

Other places should be untouched.

Unregister for a loopback in !init_net is a _valid_ operation and should be clean, i.e. without kludges in the path. This is the only way to check the ref-counting.

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