
Subject: Re: [PATCH 10/12] L2 network namespace: playing with pass-through device

Posted by [Mishin Dmitry](#) on Tue, 12 Dec 2006 14:12:55 GMT

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On Tuesday 12 December 2006 17:10, Daniel Lezcano wrote:

> Dmitry Mishin wrote:

> > On Tuesday 12 December 2006 16:59, Daniel Lezcano wrote:

> > > Dmitry Mishin wrote:

> > > > Temporary code to debug and play with pass-through device.

> > > > Create device pair by

> > > > modprobe veth

> > > > echo 'add veth1 0:1:2:3:4:1 eth0 0:1:2:3:4:2' >/proc/net/veth_ctl

> > > > and your shell will appear into a new namespace with `eth0' device.

> > > > Configure device in this namespace

> > > > ip l s eth0 up

> > > > ip a a 1.2.3.4/24 dev eth0

> > > > and in the root namespace

> > > > ip l s veth1 up

> > > > ip a a 1.2.3.1/24 dev veth1

> > > > to establish a communication channel between root namespace and the newly

> > > > created one.

> > > >

> > > > Code is done by Andrey Savochkin and ported by me over Cedric's patchset

> > > >

> > > > Signed-off-by: Dmitry Mishin <dim@openvz.org>

> > > >

> > > [...]

> > >

> > > > --- linux-2.6.19-rc6-mm2.orig/include/linux/net_namespace.h

> > > > +++ linux-2.6.19-rc6-mm2/include/linux/net_namespace.h

> > > > @@ -24,6 +24,9 @@ struct net_namespace {

> > > > int fib4_trie_last_dflt;

> > > > #endif

> > > > unsigned int hash;

> > > > + struct net_namespace *parent;

> > > > + struct list_head child_list, sibling_list;

> > > > + unsigned int id;

> > > > };

> > > Why do you need to have a child list and sibling list ?

> > > Because of the level2<->level3 hierarchy, for example.

> > >

> > > This hierarchy doesn't exist with ns->parent ? Do you have an example

> > > when the hierarchy should be used ? I mean when we need to browse from

> > > l2 -> l3 ?

> > > For example, to check that new ifaddr is already used by child l3 namespace.

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Thanks,
Dmitry.
