
Subject: [PATCH] Virtual ethernet device (v.4)
Posted by [Pavel Emelianov](#) on Thu, 19 Jul 2007 09:24:55 GMT
[View Forum Message](#) <> [Reply to Message](#)

Veth stands for Virtual ETHeRnet. It is a simple tunnel driver that works at the link layer and looks like a pair of ethernet devices interconnected with each other.

Mainly it allows to communicate between network namespaces but it can be used as is as well. E.g. one may join to bridged networking segments together.

Eric recently sent a similar driver called etun with the sysfs interface. This implementation uses another interface - the RTM_NRELINK message introduced by Patric.

The newlink callback is organized that way to make it easy to create the peer device in the separate namespace when we have them in kernel.

Many thanks to Patrick for reviewing the patches and his advises on how to make driver cleaner.

Changes from v.3:

- * Reserved place for struct ifinfomsg in IFLA_INFO_DATA part of the packet. This is not used yet, but may be in the future.

Changes from v.2.1:

- * Made the generic routine for link creation to be used by veth driver, any other tunnel driver that needs to create several devices at once and `rtnl_newlink()` code.

Changes from v.2:

- * Rebase over latest netdev tree. No actual changes;
- * Small code rework.

Changes from v.1:

- * Per-cpu statistics;
- * Standard convention for nla policy names;
- * Module alias added;
- * Xmit function fixes noticed by Patric;
- * Code cleanup.

The patch for an ip utility is also provided.

Signed-off-by: Pavel Emelianov <xemul@openvz.org>
Acked-by: Patrick McHardy <kaber@trash.net>
