
Subject: veth and IPv6

Posted by [Benoit Branciard](#) on Thu, 24 Jan 2008 10:38:13 GMT

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Hello,

sorry for the noise, but I'm starting with openVZ and have some trouble setting up things.

I plan to virtualize a server which hosts (among other network services) a dhcpd server. As stated from various docs, I need to setup a veth device to account for dhcpd broadcasts. But this server should also have an IPv6 address due to other services which are not easily moveable to another VS due to publicly-known IP address and name constraints.

I'm working on Debian Etch with debian-sysv packages: vzctl 3.0.22-1dso1, fzakernel-2.6.18-686 028stab051.1.

For now I got an IPv4 veth working, loosely inspired from <http://wiki.openvz.org/Veth> :

- enabled IPv4 forwarding and proxy_arp on hardware node for both physical interface (ethX) and virtual one (vethXXX.0)
- configured virtual eth0 by manually editing /etc/network/interfaces file in VS tree
- added routes to vethXXX.0 on hardware node at VS startup with vznetaddroute script and VETH_IP_ADDRESS in /etc/vz/conf/XXX.conf.

In this manner, all IPv4 pings work correctly (I didn't yet tested with a real dhcpd however).

But for IPv6, virtual server and hardware node can't even ping eachother !

Activating IPv6 forwarding doesn't seem to help, and has the annoying side effect to switch devices in "router" mode, disabling router solicitations and default route and prefix advertisement acceptance.

I also read various docs about veth and IPv6, some of them implying bridging:

http://forum.openvz.org/index.php?t=msg&goto=14622&&srch=veth+IPv6#msg_14622.

Questions :

- is veth with IPv6 really supported ?
- which is the correct way to setup a veth with IPv4 and IPv6 ?
- is bridging required ?
- anyway, is veth the correct way to run a dhcpd server in a VS ? on http://forum.openvz.org/index.php?t=msg&goto=14982&&srch=dhcpd#msg_14982 it seems necessary to setup a dhcp relay on hardware node...

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