Subject: Problem with veth in Fedora Core 6 VM.
Posted by mhw on Sun, 12 Aug 2007 19:16:51 GMT
View Forum Message <> Reply to Message

Hey all,

I've run into a problem with running a Fedora Core 6 VM (on an FC6 engine).

I'm using the veth devices and this seems to work for my CentOS VMs (4.5 and 5) and Fedora Core 5 systems but the eth interfaces fail to configure in an FC6 VM and it appears to be some problem with the sysfs entries. When I run ifup on the interface, this is what I get...

[root@amethyst /]# ifup eth0
sysfs attribute broadcast: No such file or directory
Error, some other host already uses address xxx.xxx.xxx.xxx.

Looking through the "ifup-eth" script, the immediate problem is the arping command is failing with the "sysfs" error and that failure is reported out by the script as "some other host already...." and then exiting.

If I comment out the "arping" section, I STILL get a "sysfs attribute broadcast: No such file or directory" error from another arping command further down but the interface does get configured with the IP address. If I comment both stanzas containing arping, the errors go away and the interface appears to configure correctly, I've just lost some duplicate IP address error detection.

It also fails (silently, this time) if I set it up with dhcp as the boot protocol. The interface is "up" but has no IPv4 address assigned to it. Fortunately, they do get IPv6 addresses assigned to it and autoconfigure properly (one of the primary reasons why I choose veth over vnet), which is why I hadn't noticed it much earlier (I largely manage my systems over IPv6).

I only had one FC6 VM earlier, for testing, and it was only accessed over IPv6, so I never noticed the failure before. The new one, on a different VE0, actually needed to be accessible over IPv4 and THATS when I noticed the problem and ran it down to the arping problem and sysfs.

Looking in /sys on the host machine and the vm I see these differences:

VE0:

[root@remus ~]# ls /sys/class/net/eth0
address carrier features iflink operstate tx_queue_len weight

addr_len device flags link_mode statistics type
broadcast dormant ifindex mtu subsystem uevent

VM:

[root@amethyst ~]# ls /sys/class/net/eth0
statistics subsystem uevent

Not good... Looks like some things are missing from the veth device drivers for sysfs.

Mike

--
Michael H. Warfield (AI4NB) | (770) 985-6132 | mhw@WittsEnd.com
/\/\|=mhw=|\/\/ | (678) 463-0932 | http://www.wittsend.com/mhw/
NIC whois: MHW9 | An optimist believes we live in the best of all
PGP Key: 0xDF1DD471 | possible worlds. A pessimist is sure of it!