Subject: ARP issue when using veth
Posted by dboucard on Thu, 14 Oct 2010 17:23:50 GMT
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I am trying to configure a veth device on a CT according to http://wiki.openvz.org/Veth

Its VEID is 226 with IP 192.168.40.26 and my HN has IP 192.168.40.2

When I try to ping the CT from the HN, it works.

But when I try to ping the HN from the CT, I get "Destination Host Unreachable".

After investigation, I found that the CT never receive any ARP reply for the IP 192.168.40.2 :

[HN]# tcpdump -n -i veth226.0
19:15:51.863068 arp who-has 192.168.40.2 tell 192.168.40.26
19:15:52.863069 arp who-has 192.168.40.2 tell 192.168.40.26

Here are more details about my conf:

[HN]# ifconfig -a
eth0 Link encap:Ethernet HWaddr 00:1a:4d:4f:45:92
inet addr:192.168.40.2 Bcast:192.168.40.255 Mask:255.255.255.0
inet6 addr: fe80::21a:4dff:fe4f:4592/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:30753072 errors:0 dropped:0 overruns:0 frame:0
TX packets:17683330 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:378830874 (361.2 MB) TX bytes:2315411153 (2.1 GB)
Interrupt:220 Base address:0x8000

lo Link encap:Local Loopback
inet addr:127.0.0.1 Mask:255.0.0.0
inet6 addr: ::1/128 Scope:Host
UP LOOPBACK RUNNING MTU:16436 Metric:1
RX packets:48 errors:0 dropped:0 overruns:0 frame:0
TX packets:48 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:4468 (4.3 KB) TX bytes:4468 (4.3 KB)

venet0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1
RX packets:25876147 errors:0 dropped:0 overruns:0 frame:0
TX packets:37743638 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:1374516294 (1.2 GB) TX bytes:2713338571 (2.5 GB)

```
veth226.0 Link encap:Ethernet  HWaddr 00:18:51:52:a9:7f
          inet6 addr: fe80::218:51ff:fe52:a97f/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:883 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:24940 (24.3 KB)  TX bytes:0 (0.0 B)

[HN]# route -n
Kernel IP routing table
Destination     Gateway         Genmask         Flags Metric Ref    Use Iface
192.168.40.224  0.0.0.0         255.255.255.255 UH    0      0        0 venet0
192.168.40.209  0.0.0.0         255.255.255.255 UH    0      0        0 venet0
192.168.40.208  0.0.0.0         255.255.255.255 UH    0      0        0 venet0
192.168.40.226  0.0.0.0         255.255.255.255 UH    0      0        0 venet0
192.168.40.210  0.0.0.0         255.255.255.255 UH    0      0        0 venet0
192.168.40.221  0.0.0.0         255.255.255.255 UH    0      0        0 venet0
192.168.40.205  0.0.0.0         255.255.255.255 UH    0      0        0 venet0
192.168.40.26   0.0.0.0         255.255.255.255 UH    0      0        0 veth226.0
192.168.40.220  0.0.0.0         255.255.255.255 UH    0      0        0 venet0
192.168.40.204  0.0.0.0         255.255.255.255 UH    0      0        0 venet0
192.168.40.223  0.0.0.0         255.255.255.255 UH    0      0        0 venet0
192.168.40.207  0.0.0.0         255.255.255.255 UH    0      0        0 venet0
192.168.40.222  0.0.0.0         255.255.255.255 UH    0      0        0 venet0
192.168.40.206  0.0.0.0         255.255.255.255 UH    0      0        0 venet0
192.168.40.201  0.0.0.0         255.255.255.255 UH    0      0        0 venet0
192.168.40.203  0.0.0.0         255.255.255.255 UH    0      0        0 venet0
192.168.40.218  0.0.0.0         255.255.255.255 UH    0      0        0 venet0
192.168.40.202  0.0.0.0         255.255.255.255 UH    0      0        0 venet0
192.168.40.0    0.0.0.0         255.255.255.0   U     0      0        0 eth0
0.0.0.0         192.168.40.1    0.0.0.0         UG    100    0        0 eth0

[HN]# cat /proc/sys/net/ipv4/conf/veth226.0/proxy_arp
1

[CT226]# ifconfig -a
eth0      Link encap:Ethernet  HWaddr 00:18:51:1e:b0:fd
          inet addr:192.168.40.26  Bcast:0.0.0.0  Mask:255.255.255.255
          inet6 addr: fe80::218:51ff:fe1e:b0fd/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:939 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:0 (0.0 B)  TX bytes:26508 (26.5 KB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
```

```
        inet6 addr: ::1/128 Scope:Host
        UP LOOPBACK RUNNING  MTU:16436  Metric:1
        RX packets:933 errors:0 dropped:0 overruns:0 frame:0
        TX packets:933 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:104384 (104.3 KB)  TX bytes:104384 (104.3 KB)

venet0    Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
        inet addr:127.0.0.1  P-t-P:127.0.0.1  Bcast:0.0.0.0  Mask:255.255.255.255
        UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
        TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)

venet0:0  Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
        inet addr:192.168.40.226  P-t-P:192.168.40.226  Bcast:0.0.0.0  Mask:255.255.255.255
        UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1


[CT226]# route -n
Kernel IP routing table
Destination     Gateway         Genmask         Flags Metric Ref    Use Iface
192.0.2.1       0.0.0.0         255.255.255.255 UH    0      0        0 venet0
0.0.0.0         0.0.0.0         0.0.0.0         U     0      0        0 eth0
```