
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