
Subject: Adding a virtual ethernet device and join to a bridge

Posted by [narcisgarcia](#) on Thu, 04 Nov 2010 09:20:26 GMT

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I create the veth1.0 device in the Hardware Node, but no eth0 is seen in the ConTainer.
Networking scenario: br0 is a bridge in HN with eth0 and eth1 included. eth0 is the only physical ethernet plugged.

Previous ifconfig in HN:

```
br0    Link encap:Ethernet HWaddr 00:0c:6e:1e:c6:98
       inet addr:192.168.1.73 Bcast:192.168.1.255 Mask:255.255.255.0
       inet6 addr: fe80::20c:6eff:fe1e:c698/64 Scope:Link
       UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
       RX packets:22834 errors:0 dropped:0 overruns:0 frame:0
       TX packets:3731 errors:0 dropped:0 overruns:0 carrier:0
       collisions:0 txqueuelen:0
       RX bytes:1284434 (1.2 MB) TX bytes:710004 (710.0 KB)
```

```
eth0   Link encap:Ethernet HWaddr 00:0c:6e:1e:c6:98
       inet6 addr: fe80::20c:6eff:fe1e:c698/64 Scope:Link
       UP BROADCAST RUNNING PROMISC MULTICAST MTU:1500 Metric:1
       RX packets:22908 errors:0 dropped:0 overruns:0 frame:0
       TX packets:3731 errors:0 dropped:0 overruns:0 carrier:0
       collisions:0 txqueuelen:1000
       RX bytes:1612895 (1.6 MB) TX bytes:710004 (710.0 KB)
       Interrupt:23 Base address:0x2000
```

```
eth1   Link encap:Ethernet HWaddr 00:17:9a:38:89:7f
       UP BROADCAST MULTICAST 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:1000
       RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)
       Interrupt:16 Base address:0xe000
```

```
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: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 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: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)
```

Previous ifconfig in CT:

```
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:6 errors:0 dropped:0 overruns:0 frame:0
TX packets:6 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:300 (300.0 B) TX bytes:300 (300.0 B)
```

```
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:192.168.1.1 P-t-P:192.168.1.1 Bcast:0.0.0.0 Mask:255.255.255.255
UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1
```

The change:

```
vzctl set 1001 --netif_add eth0,,veth1.0,,br0 --save
```

Next ifconfig in HN (seems to be right):

```
br0    Link encap:Ethernet HWaddr 00:0c:6e:1e:c6:98
inet addr:192.168.1.73 Bcast:192.168.1.255 Mask:255.255.255.0
inet6 addr: fe80::20c:6eff:fe1e:c698/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:23764 errors:0 dropped:0 overruns:0 frame:0
TX packets:3796 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:1332414 (1.3 MB) TX bytes:721926 (721.9 KB)
```

```
eth0   Link encap:Ethernet HWaddr 00:0c:6e:1e:c6:98
inet6 addr: fe80::20c:6eff:fe1e:c698/64 Scope:Link
UP BROADCAST RUNNING PROMISC MULTICAST MTU:1500 Metric:1
RX packets:23838 errors:0 dropped:0 overruns:0 frame:0
TX packets:3796 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:1674115 (1.6 MB) TX bytes:721926 (721.9 KB)
Interrupt:23 Base address:0x2000
```

```

eth1   Link encap:Ethernet HWaddr 00:17:9a:38:89:7f
UP BROADCAST MULTICAST 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:1000
RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)
Interrupt:16 Base address:0xe000

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: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 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: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)

veth1.0 Link encap:Ethernet HWaddr 00:18:51:1e:50:1a
inet6 addr: fe80::218:51ff:fe1e:501a/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:3 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)

Next ifconfig in CT (lack of "eth0" device):
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:6 errors:0 dropped:0 overruns:0 frame:0
TX packets:6 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:300 (300.0 B) TX bytes:300 (300.0 B)

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:192.168.1.1 P-t-P:192.168.1.1 Bcast:0.0.0.0 Mask:255.255.255.255
UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1

Tried to restart the container (vzctl stop 1001 ; vzctl start 1001), but the result is the same when entering to container (vzctl enter 1001)

Software:

- Hardware Node with Ubuntu 10.04, recompiled kernel 2.6.32 with dzhanibekov.1 patch
- ConTainer (VEID=1) created with Ubuntu 10.04 precreated template
- vzctl version 3.0.23

(The final target is to set-up a DHCP server into a container)

File Attachments

- 1) [hn_ip-route.txt](#), downloaded 375 times
 - 2) [hn_ip-rule.txt](#), downloaded 391 times
 - 3) [hn_netfilter.txt](#), downloaded 405 times
 - 4) [hn_iptables-f.txt](#), downloaded 315 times
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