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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

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- 1) [hn\\_ip-route.txt](#), downloaded 394 times
  - 2) [hn\\_ip-rule.txt](#), downloaded 404 times
  - 3) [hn\\_netfilter.txt](#), downloaded 441 times
  - 4) [hn\\_iptables-f.txt](#), downloaded 328 times
- 

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

Posted by [narcisgarcia](#) on Thu, 04 Nov 2010 14:16:57 GMT

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I also attach the VE results for the "How to report networking-related problems"

#### File Attachments

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- 1) [ct\\_ip-route.txt](#), downloaded 422 times
  - 2) [ct\\_ip-rule.txt](#), downloaded 379 times
  - 3) [ct\\_iptables-f.txt](#), downloaded 319 times
  - 4) [ct\\_netfilter.txt](#), downloaded 404 times
- 

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

Posted by [curx](#) on Fri, 05 Nov 2010 07:09:48 GMT

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Hi,

Have setup your Network settings,  
plz post

(CT1)% ifconfig -a

Bye,  
Thorsten

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Subject: Re: Adding a virtual ethernet device and join to a bridge  
Posted by [narcisgarcia](#) on Fri, 05 Nov 2010 13:43:56 GMT

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Ok, I see it was down in container (ifconfig -a):

```
eth0  Link encap:Ethernet  HWaddr 00:18:51:9b:10:7a
      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:0
      RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)
```

```
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:34 errors:0 dropped:0 overruns:0 frame:0
      TX packets:34 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:0
      RX bytes:3167 (3.1 KB)  TX bytes:3167 (3.1 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:4536 errors:0 dropped:0 overruns:0 frame:0
      TX packets:3346 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:0
      RX bytes:619291 (619.2 KB)  TX bytes:625730 (625.7 KB)
```

```
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
```

Now I've removed previous IP configuration with this in hardware node:

```
vzctl set control --ipdel all --save
```

And replaced whole content of container's /etc/network/interfaces by:

```
auto lo
iface lo inet loopback
```

```
auto eth0
iface eth0 inet static
    address 192.168.1.1
    netmask 255.255.255.0
    network 192.168.1.0
    broadcast 192.168.1.255
    gateway 192.168.1.252
```

And after this I obtain this with `ifconfig -a` :

```
eth0    Link encap:Ethernet  HWaddr 00:18:51:9b:10:7a
        inet addr:192.168.1.1  Bcast:192.168.1.255  Mask:255.255.255.0
        inet6 addr: fe80::218:51ff:fe9b:107a/64 Scope:Link
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:5 errors:0 dropped:0 overruns:0 frame:0
        TX packets:63 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:308 (308.0 B)  TX bytes:1980 (1.9 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:59 errors:0 dropped:0 overruns:0 frame:0
        TX packets:59 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:5374 (5.3 KB)  TX bytes:5374 (5.3 KB)
```

```
venet0  Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
        BROADCAST POINTOPOINT 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)
```

But there is no communication from container:

```
ping 192.168.1.252
PING 192.168.1.252 (192.168.1.252) 56(84) bytes of data.
From 192.168.1.1 icmp_seq=3 Destination Host Unreachable
From 192.168.1.1 icmp_seq=4 Destination Host Unreachable
```

Nor from a hardware desktop to container:

```
192.168.1.1
PING 192.168.1.1 (192.168.1.1) 56(84) bytes of data.
From 192.168.1.101 icmp_seq=1 Destination Host Unreachable
From 192.168.1.101 icmp_seq=2 Destination Host Unreachable
```