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 int the ConTainer.
Networking scenario: br0 is a bridge in HN with eth0 and eth1 included. eth0 is the only physical ethernet plugged.

Previus 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)
```

Previus 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 441 times
2) hn_ip-rule.txt, downloaded 447 times
3) hn_netfilter.txt, downloaded 484 times
4) hn_iptables-f.txt, downloaded 379 times

---

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

1) ct_ip-route.txt, downloaded 464 times
2) ct_ip-rule.txt, downloaded 401 times
3) ct_iptables-f.txt, downloaded 372 times
4) ct_netfilter.txt, downloaded 447 times

---

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

---

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
```