
Subject: ***SOLVED*** Connect VE to two different networks on two different NIC's
Posted by [abachn](#) on Mon, 23 Apr 2007 20:46:38 GMT

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Hi

I'm a bit new to openvz, but I have a (actually two) machines running openvz kernel 2.6.18-028.027 kernel on a gentoo base system!

The machine has two NIC's. One connected to an internal net with private ip's and one connected to an external net with public ip's.

My question is now, is it possible for a VE to have two ip addresses, one on each network ? Its default gateway is on the external net, the internal net is only for accessing services that are not public!

If, it is possible! How should the be done!

I hope somebody will through me a bone and give me some directions on how to do this. Thank you!

/Anders

Subject: Re: Connect VE to two different networks on two different NIC's
Posted by [Vasily Tarasov](#) on Tue, 24 Apr 2007 08:08:21 GMT

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Hello,

yes it is possible. As you probably know vzctl has --ipadd option. Using this option you can add

```
root@HN# vzctl set <veid> --ipadd <IP-1> --save
```

```
root@HN# vzctl set <veid> --ipadd <IP-2> --save
```

This will create two venet devices in VE. Then you should check that routing is set properly on HN.

Vasily.

Subject: Re: Connect VE to two different networks on two different NIC's
Posted by [abachn](#) on Tue, 08 May 2007 17:07:12 GMT

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Thank you for your answer and it works ... kind of!!

The situation is as follows! I have these servers..

(HN1) Hardware node 1: non-openvz hosts, both a public and private ip

(HN2) Hardware node 2: openvz-hosts, running several VE instances, both public and private ip

VE 1: minimal host with public and private ip

VE 2: minimal host with public and private ip

The problem is now that I can't ping HN1 from a VE on the private class A network!

I can ping

HN2 -> HN1

HN1 -> HN2

HN2 -> VE1

VE1 -> HN2

VE1 -> VE2

but not!!!

VE1 -> HN1

On the private network ... I can ping from VE1 -> HN1 on the public network....

I have not done any routing setup on HN2 (chloe)

chloe ~ # ip a l

```
2: eth0: <BROADCAST,MULTICAST,UP,10000> mtu 1500 qdisc pfifo_fast qlen 1000
```

```
link/ether 00:12:79:39:3f:b9 brd ff:ff:ff:ff:ff:ff
```

```
inet 10.0.0.151/24 brd 10.0.0.255 scope global eth0
```

```
4: eth1: <BROADCAST,MULTICAST,UP,10000> mtu 1500 qdisc pfifo_fast qlen 1000
```

```
link/ether 00:12:79:39:4f:11 brd ff:ff:ff:ff:ff:ff
```

```
inet 217.195.176.151/24 brd 217.195.176.255 scope global eth1
```

```
6: lo: <LOOPBACK,UP,10000> mtu 16436 qdisc noqueue
```

```
link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
```

```
inet 127.0.0.1/8 brd 127.255.255.255 scope host lo
```

```
8: tunl0: <NOARP> mtu 1480 qdisc noop
```

```
link/ipip 0.0.0.0 brd 0.0.0.0
```

```
10: gre0: <NOARP> mtu 1476 qdisc noop
```

```
link/gre 0.0.0.0 brd 0.0.0.0
```

```
1: venet0: <BROADCAST,POINTOPOINT,NOARP,UP,10000> mtu 1500 qdisc noqueue
```

```
link/void
```

chloe ~ # ip r l

```
217.195.176.140 dev venet0 scope link
```

```
10.0.0.161 dev venet0 scope link
```

```
217.195.176.141 dev venet0 scope link
```

```
217.195.176.142 dev venet0 scope link
```

```
217.195.176.139 dev venet0 scope link
10.0.0.141 dev venet0 scope link
217.195.176.161 dev venet0 scope link
10.0.0.140 dev venet0 scope link
217.195.176.0/24 dev eth1 proto kernel scope link src 217.195.176.151
10.0.0.0/24 dev eth0 proto kernel scope link src 10.0.0.151
127.0.0.0/8 dev lo scope link
default via 217.195.176.1 dev eth1
```

What am I missing to route trafik from VE* -> HN1 ... a physical host on the private network!!

I hope you can help!!

Subject: Re: Connect VE to two different networks on two different NIC's
Posted by [morik](#) on Tue, 08 May 2007 20:12:24 GMT

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Please show also for HN1

```
ip a l
ip r l
```

Subject: Re: Connect VE to two different networks on two different NIC's
Posted by [abachn](#) on Wed, 09 May 2007 07:03:30 GMT

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HN1 (non openvz system, names christa)

christa ~ # ip a l

```
1: eth0: <BROADCAST,MULTICAST,UP,10000> mtu 1500 qdisc pfifo_fast qlen 1000
   link/ether 00:0b:cd:29:41:fb brd ff:ff:ff:ff:ff:ff
   inet 10.0.0.154/24 brd 10.0.0.255 scope global eth0
   inet6 fe80::20b:cdf:fe29:41fb/64 scope link
       valid_lft forever preferred_lft forever
2: eth1: <BROADCAST,MULTICAST,UP,10000> mtu 1500 qdisc pfifo_fast qlen 1000
   link/ether 00:0b:cd:29:41:fa brd ff:ff:ff:ff:ff:ff
   inet 217.195.176.154/24 brd 217.195.176.255 scope global eth1
   inet6 fe80::20b:cdf:fe29:41fa/64 scope link
       valid_lft forever preferred_lft forever
3: lo: <LOOPBACK,UP,10000> mtu 16436 qdisc noqueue
   link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
   inet 127.0.0.1/8 brd 127.255.255.255 scope host lo
   inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
4: sit0: <NOARP> mtu 1480 qdisc noop
   link/sit 0.0.0.0 brd 0.0.0.0
```

```
christa ~ # ip r l
217.195.176.0/24 dev eth1 proto kernel scope link src 217.195.176.154
10.0.0.0/24 dev eth0 proto kernel scope link src 10.0.0.154
127.0.0.0/8 dev lo scope link
default via 217.195.176.1 dev eth1
```

I can ping all other combinations of hosts but not on the private class A network from VE1 (citha) to HN1 (christa)

Here are the information on citha!

```
citha / # ifconfig
```

```
lo      Link encap:Local Loopback
        inet addr:127.0.0.1  Mask:255.0.0.0
        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
        inet addr:217.195.176.141 P-t-P:217.195.176.141 Bcast:0.0.0.0 Mask:255.255.255.255
        UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500  Metric:1
        RX packets:17740 errors:0 dropped:0 overruns:0 frame:0
        TX packets:17899 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:1692354 (1.6 Mb)  TX bytes:2990896 (2.8 Mb)

venet0:1 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
        inet addr:10.0.0.141 P-t-P:10.0.0.141 Bcast:0.0.0.0 Mask:255.255.255.255
        UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500  Metric:1
        RX packets:17740 errors:0 dropped:0 overruns:0 frame:0
        TX packets:17899 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:1692354 (1.6 Mb)  TX bytes:2990896 (2.8 Mb)
```

```
citha / # ip a l
```

```
1: lo: <LOOPBACK,UP,10000> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
3: venet0: <BROADCAST,POINTOPOINT,NOARP,UP,10000> mtu 1500 qdisc noqueue
    link/void
    inet 217.195.176.141/32 scope global venet0
    inet 10.0.0.141/32 scope global venet0:1
```

```
citha / # ip r l
```

```
192.0.2.0/24 dev venet0 scope link
127.0.0.0/8 via 127.0.0.1 dev lo scope link
```

default via 192.0.2.1 dev venet0

Subject: Re: Connect VE to two different networks on two different NIC's
Posted by [Andrey Mirkin](#) on Wed, 09 May 2007 09:15:20 GMT

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Try to ping HN1 from VE1 with following command:

```
ping -I 10.0.0.141 10.0.0.154
```

Subject: Re: Connect VE to two different networks on two different NIC's
Posted by [abachn](#) on Wed, 09 May 2007 09:30:29 GMT

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```
citha / # ping -I 10.0.0.141 10.0.0.154
PING 10.0.0.154 (10.0.0.154) from 10.0.0.141 : 56(84) bytes of data.
64 bytes from 10.0.0.154: icmp_seq=1 ttl=63 time=142 ms
64 bytes from 10.0.0.154: icmp_seq=2 ttl=63 time=0.140 ms
64 bytes from 10.0.0.154: icmp_seq=3 ttl=63 time=0.097 ms
64 bytes from 10.0.0.154: icmp_seq=4 ttl=63 time=0.106 ms
64 bytes from 10.0.0.154: icmp_seq=5 ttl=63 time=0.109 ms
```

--- 10.0.0.154 ping statistics ---

```
5 packets transmitted, 5 received, 0% packet loss, time 4003ms
rtt min/avg/max/mdev = 0.097/28.548/142.290/56.871 ms
```

So it works, thank you! But.. how do I tell it to use the address 10.0.0.141 everytime it tries to reach a class A address ??

If I for instanse want to make a mysql connection from VE1 -> HN1 ?

Subject: Re: Connect VE to two different networks on two different NIC's
Posted by [morik](#) on Wed, 09 May 2007 12:41:40 GMT

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try to add in VE

```
ip route add 10.0.0.154/32 dev venet0 src 10.0.0.141
```

Subject: SOLVED * Re: Connect VE to two different networks on two different NIC's

Posted by [abachn](#) on Wed, 09 May 2007 12:56:21 GMT

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Thank you, that did it
