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Subject: All routable IP addresses all on the same vlan

Posted by [thezeke](#) on Fri, 07 Dec 2007 05:20:20 GMT

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Hello,

After creating a VE with an IP address in the same VLAN as the IP address of the HW Node I am unable to ping that VE's IP address and I'm unable to ping an outside IP address. If I stop the VE and add the VE's IP address to eth0 as an alias I can ping it from the outside as expected.

I want to use all routable IP addresses here. I guess I need to setup a bridge between the HW Node and each VE. How do I do this without too many custom scripts and special firewall rules.

```
# vzctl create 101 --ostemplate centos-4-i386-default
# vzctl set 101 --ipadd 209.160.28.232 --save
# vzctl set 101 --nameserver 66.36.226.110 --save
# vzctl set 101 --hostname vps101 --save
# vzctl start 101
# vzctl enter 101
[root@vps101 /]# ping -c 4 64.233.167.99
PING 64.233.167.99 (64.233.167.99) 56(84) bytes of data.
```

```
--- 64.233.167.99 ping statistics ---
4 packets transmitted, 0 received, 100% packet loss, time 2999ms
```

HW NODE "ifconfig":

```
-----
[root@sls-ab2p14 ~]# ifconfig
eth0    Link encap:Ethernet HWaddr 00:0E:0C:7F:0E:C7
        inet addr:209.160.40.18 Bcast:209.160.47.255 Mask:255.255.248.0
        UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
        RX packets:356760 errors:0 dropped:0 overruns:0 frame:0
        TX packets:110181 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1000
        RX bytes:250149540 (238.5 MiB) TX bytes:14660446 (13.9 MiB)
```

```
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
        UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1
        RX packets:2366 errors:0 dropped:0 overruns:0 frame:0
        TX packets:13 errors:0 dropped:0 overruns:0 carrier:0
```

collisions:0 txqueuelen:0  
RX bytes:198408 (193.7 KiB) TX bytes:1092 (1.0 KiB)

VE "ifconfig":

```
-----  
[root@vps101 /]# 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:3517831808 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:32766 (31.9 KiB) TX bytes:510 (510.0 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:2271 errors:0 dropped:0 overruns:0 carrier:0  
      collisions:0 txqueuelen:0  
      RX bytes:0 (0.0 b) TX bytes:190764 (186.2 KiB)  
  
venet0:0  Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00  
      inet addr:209.160.28.232  P-t-P:209.160.28.232  Bcast:209.160.28.232  
      Mask:255.255.255.255  
      UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1
```

SYSCTL.CONF (sysctl -p recently executed)

```
-----  
[root@sls-ab2p14 ~]# cat /etc/sysctl.conf  
net.ipv4.ip_forward = 1  
net.ipv4.conf.default.proxy_arp = 1  
net.ipv4.conf.default.rp_filter = 1  
net.ipv4.conf.all.rp_filter = 1  
kernel.sysrq = 1  
net.ipv4.conf.default.send_redirects = 1  
net.ipv4.conf.all.send_redirects = 1  
net.ipv4.conf.default.accept_source_route = 0
```

ROUTING TABLES:

```
[root@sls-ab2p14 ~]# netstat -r  
Kernel IP routing table  
Destination  Gateway      Genmask      Flags  MSS  Window  irtt  Iface  
209.160.40.0 *            255.255.248.0  U      0 0      0 eth0  
169.254.0.0  *            255.255.0.0   U      0 0      0 eth0  
default      vl102-gw.acc.se 0.0.0.0      UG     0 0      0 eth0
```

```
[root@vps101 /]# netstat -r
Kernel IP routing table
Destination Gateway Genmask Flags MSS Window irtt Iface
192.0.2.0 * 255.255.255.0 U 0 0 0 venet0
169.254.0.0 * 255.255.0.0 U 0 0 0 venet0
default 192.0.2.1 0.0.0.0 UG 0 0 0 venet0
```

```
[root@sls-ab2p14 ~]# iptables -nL
Chain INPUT (policy ACCEPT)
target prot opt source destination

Chain FORWARD (policy ACCEPT)
target prot opt source destination
ACCEPT all -- 0.0.0.0/0 255.255.255.255

Chain OUTPUT (policy ACCEPT)
target prot opt source destination
```

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