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Subject: internet not reachable from ve  
Posted by [pastk](#) on Sun, 25 Jan 2009 19:08:33 GMT  
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Hello!

Just did a fresh install of Debian 5.0 Lenny on my server, installed openvz kernel from debian repos, installed openvz tools from <http://download.openvz.org/debian-sysfs> etc (as in [http://wiki.openvz.org/Installation\\_on\\_Debian](http://wiki.openvz.org/Installation_on_Debian)).

Installed vzctl-ostmpl-debian-5.0-i386-minimal package from the same repo (version 20090121). Created one VE, assigned it ip 192.168.2.11. HN ip: 192.168.2.3.

The problem: pings go fine from VE to 192.168.2.3 and back. But other ips (i.e. 192.168.2.1 - my home router) are not reachable from within VE.

tcpdumps:

On VE:

```
root@localhost:~# ping -c 1 192.168.2.1
PING 192.168.2.1 (192.168.2.1) 56(84) bytes of data.
```

```
--- 192.168.2.1 ping statistics ---
1 packets transmitted, 0 received, 100% packet loss, time 0ms
```

```
root@localhost:~# tcpdump -i venet0 -e host 192.168.2.11
tcpdump: WARNING: arptype 65535 not supported by libpcap - falling back to cooked socket
tcpdump: WARNING: venet0: no IPv4 address assigned
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on venet0, link-type LINUX_SLL (Linux cooked), capture size 96 bytes
19:01:06.951193 Out ethertype IPv4 (0x0800), length 100: 192.168.2.11 > 192.168.2.1: ICMP
echo request, id 49409, seq 1, length 64
1 packets captured
1 packets received by filter
0 packets dropped by kernel
```

On HN:

```
kilgore:~# tcpdump -i venet0 -e host 192.168.2.11
tcpdump: WARNING: arptype 65535 not supported by libpcap - falling back to cooked socket
tcpdump: WARNING: venet0: no IPv4 address assigned
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on venet0, link-type LINUX_SLL (Linux cooked), capture size 96 bytes
22:03:27.833646 In ethertype IPv4 (0x0800), length 100: 192.168.2.11 > 192.168.2.1: ICMP echo
```

request, id 49921, seq 1, length 64

^C

1 packets captured

1 packets received by filter

0 packets dropped by kernel

kilgore:~# tcpdump -i eth0 -e host 192.168.2.11

tcpdump: verbose output suppressed, use -v or -vv for full protocol decode

listening on eth0, link-type EN10MB (Ethernet), capture size 96 bytes

22:04:53.752058 00:40:f4:88:0f:cd (oui Unknown) > 00:14:bf:87:69:e5 (oui Unknown), ethertype IPv4 (0x0800), length 98: 192.168.2.11 > 192.168.2.1: ICMP echo request, id 50177, seq 1, length 64

22:04:53.753679 00:14:bf:87:69:e5 (oui Unknown) > Broadcast, ethertype ARP (0x0806), length 60: arp who-has 192.168.2.11 tell 192.168.2.1

^C

2 packets captured

2 packets received by filter

0 packets dropped by kernel

Any help appreciated

HN configuration:

kilgore:~# uname -a

Linux kilgore 2.6.26-1-openvz-686 #1 SMP Sat Jan 10 20:42:05 UTC 2009 i686 GNU/Linux

kilgore:~# vzctl --version

vzctl version 3.0.23-1dso1~etch0

kilgore:~# ip rule list

0: from all lookup local

32766: from all lookup main

32767: from all lookup default

kilgore:~# ip route list table all

192.168.2.11 dev venet0 scope link

192.168.2.0/24 dev eth0 proto kernel scope link src 192.168.2.3

default via 192.168.2.1 dev eth0

broadcast 192.168.2.255 dev eth0 table local proto kernel scope link src 192.168.2.3

broadcast 127.255.255.255 dev lo table local proto kernel scope link src 127.0.0.1

broadcast 192.168.2.0 dev eth0 table local proto kernel scope link src 192.168.2.3

local 192.168.2.3 dev eth0 table local proto kernel scope host src 192.168.2.3

```
broadcast 127.0.0.0 dev lo table local proto kernel scope link src 127.0.0.1
local 127.0.0.1 dev lo table local proto kernel scope host src 127.0.0.1
local 127.0.0.0/8 dev lo table local proto kernel scope host src 127.0.0.1
fe80::/64 dev eth0 metric 256 mtu 1500 advmss 1440 hoplimit 4294967295
unreachable default dev lo table unspec proto none metric -1 error -101 hoplimit 255
local ::1 via :: dev lo table local proto none metric 0 mtu 16436 advmss 16376 hoplimit 4294967295
local fe80::240:f4ff:fe88:fcd via :: dev lo table local proto none metric 0 mtu 16436 advmss 16376 hoplimit 4294967295
ff00::/8 dev eth0 table local metric 256 mtu 1500 advmss 1440 hoplimit 4294967295
unreachable default dev lo table unspec proto none metric -1 error -101 hoplimit 255
```

No entries in iptables.

kilgore:~# ifconfig

```
eth0    Link encap:Ethernet HWaddr 00:40:f4:88:0f:cd
        inet addr:192.168.2.3 Bcast:192.168.2.255 Mask:255.255.255.0
        inet6 addr: fe80::240:f4ff:fe88:fcd/64 Scope:Link
        UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
        RX packets:85909 errors:0 dropped:0 overruns:0 frame:0
        TX packets:70799 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1000
        RX bytes:87228294 (83.1 MiB) TX bytes:7483457 (7.1 MiB)
        Interrupt:9 Base address:0xe800
```

```
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:10 errors:0 dropped:0 overruns:0 frame:0
        TX packets:10 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:2641 (2.5 KiB) TX bytes:2641 (2.5 KiB)
```

```
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:35 errors:0 dropped:0 overruns:0 frame:0
        TX packets:9 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:2750 (2.6 KiB) TX bytes:756 (756.0 B)
```

kilgore:~# sysctl -p

```
net.ipv4.conf.default.forwarding = 1
net.ipv4.conf.default.proxy_arp = 0
```

```
net.ipv4.conf.all.rp_filter = 1
kernel.sysrq = 1
net.ipv4.conf.default.send_redirects = 1
net.ipv4.conf.all.send_redirects = 0
```

Now VE's config:

```
root@localhost:/# ip rule list
0: from all lookup local
32766: from all lookup main
32767: from all lookup default
```

```
root@localhost:/# ip route list table all
192.0.2.1 dev venet0 scope link
default via 192.0.2.1 dev venet0
broadcast 127.255.255.255 dev lo table local proto kernel scope link src 127.0.0.1
local 192.168.2.11 dev venet0 table local proto kernel scope host src 192.168.2.11
broadcast 127.0.0.0 dev lo table local proto kernel scope link src 127.0.0.1
local 127.0.0.1 dev lo table local proto kernel scope host src 127.0.0.1
local 127.0.0.0/8 dev lo table local proto kernel scope host src 127.0.0.1
unreachable default dev lo table unspec proto none metric -1 error -101 hoplimit 255
local ::1 via :: dev lo table local proto none metric 0 mtu 16436 advmss 16376 hoplimit
4294967295
unreachable default dev lo table unspec proto none metric -1 error -101 hoplimit 255
```

```
root@localhost:/# ifconfig
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:2 errors:0 dropped:0 overruns:0 frame:0
        TX packets:2 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:168 (168.0 B)  TX bytes:168 (168.0 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:4 errors:0 dropped:0 overruns:0 frame:0
        TX packets:25 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:336 (336.0 B)  TX bytes:1910 (1.8 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:192.168.2.11 P-t-P:192.168.2.11 Bcast:0.0.0.0 Mask:255.255.255.255  
UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1

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Subject: Re: internet not reachable from ve  
Posted by [swindmill](#) on Sun, 25 Jan 2009 21:28:07 GMT  
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Try setting net.ipv4.ip\_forward=1 in your /etc/sysctl.conf

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Subject: Re: internet not reachable from ve  
Posted by [pastk](#) on Sun, 25 Jan 2009 21:54:26 GMT  
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Thanks a lot! I indeed overlooked it

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