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Subject: How to access private IPs from a container  
Posted by [tscargo](#) on Wed, 26 Aug 2009 07:46:11 GMT  
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I have been using openvz for quite a while and am very happy with it.  
Recently I added a vps to monitor some devices on my local network in a 10.x range.  
My hardware-node and all other VPSes run in my 'external' ip range.

Configuration on my HN (real ip changed to 1.2.3.4):

```
eth0    Link encap:Ethernet HWaddr 00:30:48:91:3E:14
        inet addr:1.2.3.4 Bcast:1.2.3.255 Mask:255.255.254.0
        UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
        RX packets:755314 errors:0 dropped:0 overruns:0 frame:0
        TX packets:1039609 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:100
        RX bytes:212586182 (202.7 MiB) TX bytes:1382180633 (1.2 GiB)
        Base address:0x5000 Memory:e1000000-e1020000

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:1035141 errors:0 dropped:0 overruns:0 frame:0
        TX packets:680342 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:1362997196 (1.2 GiB) TX bytes:194411390 (185.4 MiB)
```

My VPS has the following configuration:

```
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:2075571777 errors:0 dropped:0 overruns:0 frame:0
        TX packets:1631407695 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:1140876388 (1.0 GiB) TX bytes:1095784005 (1.0 GiB)

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:764 errors:0 dropped:0 overruns:0 frame:0
```

TX packets:1118 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:0  
RX bytes:68840 (67.2 KiB) TX bytes:137911 (134.6 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:1.2.3.5 P-t-P:1.2.3.5 Bcast:1.2.3.5 Mask:255.255.255.255  
UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1

venet0:1 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00  
inet addr:10.1.1.27 P-t-P:10.1.1.27 Bcast:10.1.1.27 Mask:255.255.255.255  
UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1

I can communicate fine with IPs in the 1.2.3.x range, any ip in the 10.1.1.x range is unpingable.

While doing a ping from the vps to a private ip, I can see (using tcpdump on HN)

```
tcpdump icmp -n -i any
tcpdump: WARNING: Promiscuous mode not supported on the "any" device
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on any, link-type LINUX_SLL (Linux cooked), capture size 96 bytes
03:40:45.637296 IP 1.2.3.5 > 10.1.1.25: icmp 64: echo request seq 1
03:40:45.637296 IP 1.2.3.5 > 10.1.1.25: icmp 64: echo request seq 1
03:40:45.637309 IP 1.2.3.5 > 10.1.1.25: icmp 64: echo request seq 1
03:40:46.637303 IP 1.2.3.5 > 10.1.1.25: icmp 64: echo request seq 2
03:40:46.637303 IP 1.2.3.5 > 10.1.1.25: icmp 64: echo request seq 2
03:40:46.637317 IP 1.2.3.5 > 10.1.1.25: icmp 64: echo request seq 2
03:40:47.637076 IP 1.2.3.5 > 10.1.1.25: icmp 64: echo request seq 3
03:40:47.637076 IP 1.2.3.5 > 10.1.1.25: icmp 64: echo request seq 3
03:40:47.637088 IP 1.2.3.5 > 10.1.1.25: icmp 64: echo request seq 3
```

As you can see the ping packets originate from the IP from venet0:0 instead of from venet0:1

What am I doing wrong ?

Thanks for your help !

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