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 !
