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Subject: \*SOLVED\* nat not working

Posted by [nonamesir](#) on Wed, 14 Feb 2007 01:33:25 GMT

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edit: problem solved, turns out the vm's ip settings were messed up and i had the ips the other way around for the NAT rule

I'm trying to get the VE to communicate with the outside world. here is the vm's info:

```
oot@vm101:~# 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: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:404 errors:0 dropped:0 overruns:0 frame:0
        TX packets:318 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:33172 (32.3 KiB)  TX bytes:44637 (43.5 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:192.168.2.10  P-t-P:192.168.2.10  Bcast:0.0.0.0  Mask:255.255.255.255
        UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1
```

```
root@vm101:~# route -N
```

```
Kernel IP routing table
```

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
192.0.2.1	0.0.0.0	255.255.255.255	UH	0	0	0	venet0
0.0.0.0	192.0.2.1	0.0.0.0	UG	0	0	0	venet0

And, on the Host's side, the information is:

```
[root@MyTestBox ~]# ifconfig
```

```
eth0    Link encap:Ethernet  HWaddr 00:0C:29:91:38:FB
        inet addr:192.168.0.127  Bcast:192.168.0.255  Mask:255.255.255.0
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:53056 errors:0 dropped:0 overruns:0 frame:0
        TX packets:34999 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1000
```

RX bytes:68221259 (65.0 MiB) TX bytes:3327550 (3.1 MiB)  
Interrupt:17 Base address:0x1400

```
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:366 errors:0 dropped:0 overruns:0 frame:0
      TX packets:460 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:0
      RX bytes:50701 (49.5 KiB)  TX bytes:36884 (36.0 KiB)
```

i research the docs and ran this on the host

```
[root@MyTestBox ~]# iptables -t nat -A POSTROUTING -s 192.168.0.127 -o eth0 -j SNAT --to
192.168.2.10
```

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

Chain FORWARD (policy ACCEPT)
target    prot opt source          destination

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

The VE can ping the host machine, the host machine can ping google, however the VE can't ping any outside IPs or domain names.

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