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Subject: Routing problem

Posted by [pennywize](#) on Fri, 19 Jan 2007 21:35:50 GMT

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Hello all,

I have a massive routing problem. My system is running with Debian Etch. VZCTL Version: 3.0.11  
It is running on a root server with 1 static IP. A VM is able to ping its host (via public IP) but unable to go to internet.

My iptables seems to be incomplete or I did something wrong else. Am in hope one of you is able to enlight me regarding this.

Here are my configy

HOSTSYSTEM

/etc/network/interfaces

```
iface lo inet loopback
auto lo
```

```
auto eth0
```

```
iface eth0 inet static
    address 85.xx.yy.112
    netmask 255.255.255.0
    broadcast 85.xx.yy.255
    network 85.xx.xx.0
    gateway 85.xx.xx.254
```

```
up sysctl -w net.ipv4.conf.eth0.proxy_arp=1
pre-down sysctl -w net.ipv4.conf.eth0.proxy_arp=0
```

VM have following config:

/etc/network/interfaces

```
auto venet0 lo
```

```
iface venet0 inet static
    address 127.0.0.1
    netmask 255.255.255.255
    broadcast 0.0.0.0
    up route add -net 191.255.255.1 netmask 255.255.255.255 dev venet0
    up route add default gw 191.255.255.1
iface lo inet loopback
```

```
auto venet0:0
```

```
iface venet0:0 inet static
    address 192.168.0.196
    netmask 255.255.255.255
```

broadcast 0.0.0.0

/etc/resolv.conf

nameserver 127.0.0.1  
nameserver 85.xx.yy.112

It is possible to ping external IP from inside VM

```
ping 85.xx.yy.112
PING 85.xx.yy.112 (85.xx.yy.112) 56(84) bytes of data.
64 bytes from 85.xx.yy.112: icmp_seq=1 ttl=64 time=0.159 ms
64 bytes from 85.xx.yy.112: icmp_seq=2 ttl=64 time=0.092 ms
64 bytes from 85.xx.yy.112: icmp_seq=3 ttl=64 time=0.094 ms
```

I have choosen an http source for apt

My iptables rules look like this

```
echo "1" > /proc/sys/net/ipv4/ip_forward
iptables -t nat -A FORWARDING -p tcp -d 85.xx.yy.112 --dport 53 -j DNAT --to-destination
192.168.0.196
iptables -t nat -A PREROUTING -i eth0 -p udp -d 85.xx.yy.112 --dport 53 -j DNAT --to-destination
192.168.0.196

iptables -t nat -A PREROUTING -p tcp -d 85.xx.yy.112 --dport 80 -j DNAT --to-destination
192.168.0.196
iptables -t nat -A PREROUTING -i eth0 -p tcp -d 85.xx.yy.112 --dport 80 -j DNAT --to-destination
192.168.0.196
```

And of course not to mention this, its hosts is able to ping that VM as well:

```
ping 192.168.0.196
PING 192.168.0.196 (192.168.0.196) 56(84) bytes of data.
64 bytes from 192.168.0.196: icmp_seq=1 ttl=64 time=0.150 ms
64 bytes from 192.168.0.196: icmp_seq=2 ttl=64 time=0.093 ms
```

Guess the mistake could be either in /etc/resolv.conf (VM) or to find iptables rules.

I really hope you can tell me where the mistake is.

Kind regards  
Pennywize

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Subject: Re: Routing problem

Posted by [pennywize](#) on Sun, 21 Jan 2007 08:03:22 GMT

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No one have an idea what went wrong?

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Subject: Re: Routing problem

Posted by [dim](#) on Sun, 21 Jan 2007 20:39:41 GMT

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Where do you have DNS server?

From VM config, it's uses 127.0.0.1 and host IP as DNS addrs, but from iptables config each DNS request from VM to host IP will be forwarded back to it. Seems, that this is an issue.

And, please, specify kernel version you use - statefull iptables default behaviour depends on it.

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