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Subject: 2.6.8 nat not work

Posted by [m\\_o\\_d](#) on Thu, 29 Jun 2006 11:56:47 GMT

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Hello

I have debian 3.1 with 2.6.8+patch-022stab078-combined.

On Host i have 1 public ip so for VEs i use 192.168.1.101 in host i add:

```
echo '1' > /proc/sys/net/ipv4/ip_forward
```

and in iptables:

```
IPT=/sbin/iptables
IPTF="$IPT -t filter"
IPTN="$IPT -t nat"
$IPTN -A POSTROUTING -s 192.168.1.0/24 -o eth4 -j SNAT --to ip
$IPTF -A FORWARD -i venet0 -s 192.168.1.0/24 -o eth4 -d 0/0 -j ACCEPT
$IPTF -A FORWARD -i eth4 -s 0/0 -o venet0 -d 192.168.1.0/24 -j ACCEPT
```

venet0 in host have ip 192.168.1.1:

```
1: venet0: <BROADCAST,POINTOPOINT,NOARP,UP> mtu 1500 qdisc noqueue
    link/void
    inet 192.168.1.1/24 brd 192.168.1.255 scope global venet0
```

and in VEs:

```
venet0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
    inet addr:192.168.1.101 P-t-P:192.168.1.101 Bcast:192.168.1.255 Mask:255.255.255.0
```

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
192.168.1.0	0.0.0.0	255.255.255.0	U	0	0	0	venet0
0.0.0.0	192.168.1.1	0.0.0.0	UG	0	0	0	venet0

With that config i can ping from VEs public ip on host and from host ip on VEs, but if i want ping world don't work.

In iptables filter table on forward chain i saw incoming packet from VEs but the packet are not going to nat table:

```
Chain POSTROUTING (policy ACCEPT 0 packets, 0 bytes)
  pkts bytes target    prot opt in     out     source          destination
   0    0 SNAT      all  --  *     eth4   192.168.1.0/24  0.0.0.0/0      to:80.48.115.12
Chain POSTROUTING (policy ACCEPT 0 packets, 0 bytes)
```

```
pkts bytes target  prot opt in  out  source          destination
 0   0 SNAT    all -- *   eth4 192.168.1.0/24 0.0.0.0/0      to:80.48.115.12
```

PS. In /etc/modules.conf i have:

```
options ip_conntrack ip_conntrack_enable_ve0=1
```

What i have done wrong ?

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Subject: Re: 2.6.8 nat not work  
Posted by [Vasily Tarasov](#) on Fri, 30 Jun 2006 08:06:56 GMT  
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1) It seems that you have made something like "ifconfig venet0..." on host and in VE. It's wrong. You don't have to do it! Routing is also done automatically. Just use the commands `vzctl set --ipadd IP --save` and similar!

2) Here is a small description, what I've done to get it all work:

a) Add "options ip\_conntrack ip\_conntrack\_enable\_ve0=1" to /etc/modprobe.conf and reload this module with modprobe.

b) My external IP is 192.168.0.239 on eth0. VE's IP is 10.0.0.2.  
(If you have more than one interface don't forget to tune VE\_ROUTE\_SRC\_DEV variable in /etc/vz/vz.conf as you wish)

```
vzctl set 200 --ipadd 10.0.0.2 --save
vzctl start 200
```

At this moment you can only ping HOST from VE (and back to front of course)

c)  

```
echo 1 > /proc/sys/net/ipv4/ip_forward
iptables -t nat -A POSTROUTING -s 10.0.0.2 -o eth0 -j SNAT --to 192.168.0.239
```

After that I was able to ping "world" from VE.

If you'll have problems you can give me an access to the node, if possible, and I'll try to help.

Good luck!

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