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 ?

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 automaticaly. 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!
