Subject: Using NAT for container with private IPs
Posted by joaodrp on Sat, 11 Aug 2012 21:03:54 GMT
View Forum Message <> Reply to Message

Hi,

I've installed OpenVZ for the first time, in a fresh CentOS 6.3 host server. Here are its details:

```
root@Server-1:~/ # uname -a
Linux Server-1 2.6.32-042stab059.7 #1 SMP Tue Jul 24 19:12:01 MSK 2012 x86_64 x86_64
x86_64 GNU/Linux

root@Server-1:~/ # ifconfig
eth0   ...
       inet addr:10.0.3.11  Bcast:10.0.3.255  Mask:255.255.255.0
       ...

venet0 Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
       inet6 addr: fe80::1/128 Scope:Link
       UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1
       RX packets:12 errors:0 dropped:0 overruns:0 frame:0
       TX packets:12 errors:0 dropped:3 overruns:0 carrier:0
       collisions:0 txqueuelen:0
       RX bytes:876 (876.0 b)  TX bytes:1100 (1.0 KiB)

root@Server-1:~/ # cat /etc/resolv.conf
# Generated by NetworkManager
domain mylabdomain.com
search mylabdomain.com
nameserver 10.0.3.1

root@Server-1:~/ # cat /proc/sys/net/ipv4/ip_forward
1
```

After installing OpenVZ without problems I downloaded the CentOS 6 template and created my first VE:

```
root@Server-1:~/ # vzctl create 101 --ostemplate centos-6-x86_64 --config basic
root@Server-1:~/ # vzctl set 101 --onboot yes --hostname 101.mylabdoamin.com --ipadd
192.168.1.101 --searchdomain mylabdoamin.com --nameserver 10.0.3.1 --userpasswd root:XXXX
--save
root@Server-1:~/ # vzctl start 101
```

Everything went smoothly and I can ping VE from host and ping host from VE. However I cannot

reach the Internet (yum, ping, etc) from inside the VE (I've . Since I cannot control the LAN of my host (the machine is on my university lab), I cannot assign public IPs to it. I've read all the post in this forum with similar problems but I cant find a solution that works.

I've focused in the wiki.openvz.org/Using_NAT_for_container_with_private_IPs Wiki, but I get stuck in the "IP conntracks" section, because there is no /etc/modules.conf or /etc/modprobe.conf files in my host, I only see a /etc/modprobe.d/ directory with a bunch of sub directories and files. Are there updated instructions for this step?

Although not being able to complete that step, I've proceeded with the guide and done the following in the host:

root@Server-1:~/ # iptables -t nat -A POSTROUTING -s 192.168.1.0/24 -o eth0 -j SNAT --to 10.0.3.11

But then I get stuck again in iptables when trying to enable outgoing connections:

root@Server-1:~/ # iptables -A RH-Firewall-1-INPUT -s 192.168.1.0/24 -j ACCEPT
iptables: No chain/target/match by that name.

When inspecting iptables rules I get:

```
root@Server-1:~/ # iptables -L
Chain INPUT (policy ACCEPT)
target     prot opt source               destination
ACCEPT     all  --  anywhere             anywhere            state RELATED,ESTABLISHED
ACCEPT     icmp --  anywhere             anywhere
ACCEPT     all  --  anywhere             anywhere
ACCEPT     tcp  --  anywhere             anywhere            state NEW tcp dpt:ssh
REJECT     all  --  anywhere             anywhere            reject-with icmp-host-prohibited

Chain FORWARD (policy ACCEPT)
target     prot opt source               destination
REJECT     all  --  anywhere             anywhere            reject-with icmp-host-prohibited

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

Can anyone help on this? I've been struggling to get my VE's with Internet connection all day and cant get it working.