
Subject: Using NAT for container with private IPs
Posted by [joaodrp](#) on Sat, 11 Aug 2012 21:03:54 GMT
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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              state
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-with icmp-host-prohibited
REJECT    all  --  anywhere              anywhere
```

```
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.