
Subject: *SOLVED* IP forwarding

Posted by [jimq](#) on Mon, 20 Nov 2006 13:37:40 GMT

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Hello all,

I am new to this forum, and to VZ.

My host node was setup with forzza-installer-1.4.2_i386.iso and has Ip 192.168.21.10 and name vm01.

I have created a VE whose IP is 10.0.1.1 and name is test110.

I have been trying to use IP forwarding to connect to the VE through ssh from the outside, using another port (50022), following the explanations provided on http://wiki.openvz.org/Using_NAT_for_VE_with_private_IPs

All I can get is :

```
debian@debiandb1:~$ ssh root@192.168.21.10 -p 50022
```

```
ssh: connect to host 192.168.21.10 port 50022: Connection refused
```

while the connection to the host works:

```
debian@debiandb1:~$ ssh root@192.168.21.10 -p 22
```

```
Password:
```

```
Last login: Sat Nov 18 21:43:41 2006 from 192.168.21.110
```

```
*****
```

```
vm01:/var# more /etc/network/options
```

```
ip_forward=yes
```

```
spoofprotect=yes
```

```
syncookies=no
```

```
*****
```

```
vm01:/etc# iptables -t nat -L
```

```
Chain PREROUTING (policy ACCEPT)
```

target	prot	opt	source	destination
DNAT	tcp	--	anywhere	vm01
				tcp dpt:50022 to:10.0.1.1:22

```
Chain POSTROUTING (policy ACCEPT)
```

target	prot	opt	source	destination
SNAT	all	--	test110	anywhere
				to:192.168.21.10

```
Chain OUTPUT (policy ACCEPT)
```

target	prot	opt	source	destination
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If somebody can tell me what is wrong or missing, I would greatly appreciate.

Thanks in advance

Jim

Subject: Re: IP forwarding
Posted by [dim](#) on Mon, 20 Nov 2006 15:47:45 GMT
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1) Which kernel do you use?
2) cat /etc/modprobe.conf

Subject: Re: IP forwarding
Posted by [jimq](#) on Mon, 20 Nov 2006 16:34:38 GMT
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```
vm01:/var/log# uname -a
Linux vm01 2.6.8-mod-stable-ovz #1 Thu Aug 31 15:30:55 CEST 2006 i686 GNU/Linux
vm01:/var/log# cat /etc/modprobe.conf
cat: /etc/modprobe.conf: No such file or directory
vm01:/var/log#
```

Subject: Re: IP forwarding
Posted by [dim](#) on Mon, 20 Nov 2006 16:40:45 GMT
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You need to load ip_conntrack module with ip_conntrack_enable_ve0=1 option. Something like this:

```
/sbin/modprobe ip_conntrack "ip_conntrack_enable_ve0=1"
```

Subject: Re: IP forwarding
Posted by [jimq](#) on Mon, 20 Nov 2006 17:45:53 GMT
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This does not change the outcome.

Additional info I collected -if it can help.
(May be something very basic is wrong here)

my HN is a virtual machine using VMWare.
This is why it has a 192.168.x.x IP address.

HN (vm01) is 192.168.21.10
VE (test110) is 10.0.1.1

I can successfully :

#####

ping VE from HN
ping HN from VE
ssh root@VE from HN
ssh root@HN from VE

IP forwarding seems enabled:

```
vm01:/etc# more sysctl.conf | grep forward
# packet forwarding enabled and proxy arp disabled
net.ipv4.ip_forward = 1
```

```
vm01:/etc/network# more options | grep forward
ip_forward=yes
```

And on the VE:

```
root@test110:/etc# more sysctl.conf | grep forward
# Uncomment the next line to enable packet forwarding for IPv4
net.ipv4.ip_forward=1
# Uncomment the next line to enable packet forwarding for IPv6
#net.ipv6.ip_forward=1
```

I can ping www.google.com from the VE

Other info

#####

On HN

```
vm01:/etc/network# ip a l
2: lo: <LOOPBACK,UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
4: eth0: <BROADCAST,MULTICAST,UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 00:0c:29:b8:54:b7 brd ff:ff:ff:ff:ff:ff
    inet 192.168.21.10/24 brd 192.168.21.255 scope global eth0
1: venet0: <BROADCAST,POINTOPOINT,NOARP,UP> mtu 1500 qdisc noqueue
    link/void
```

On VE

```
root@test110:/etc/network# ip a l
1: lo: <LOOPBACK,UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
3: venet0: <BROADCAST,POINTOPOINT,NOARP,UP> mtu 1500 qdisc noqueue
    link/void
    inet 127.0.0.1/32 scope host venet0
    inet 10.0.1.1/32 scope global venet0:0
```

Subject: Re: IP forwarding

Posted by [dim](#) on Wed, 22 Nov 2006 09:35:06 GMT

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Do you have /proc/net/ip_conntrack file at the HN?

If so, I need an access to your node in order to resolve issue.

Please, send credentials via PM.
