
Subject: VPS doesn't work outside Node server
Posted by [xwinner](#) on Fri, 02 Mar 2007 15:59:05 GMT
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Hi everybody,

My node server is ok to join via http or ssh my VPS's
all of VPS can go outside node can ping "www.yahoo.fr"

But i can't acces the apache of my VPS from external

For sample:
NODE server is 192.168.0.10
VPS101 is : 192.168.0.101
VPS102 is : 192.168.0.102

in VPS 101 i can ping all ip over internet or hostname
in Node i can ping the VPS101 and login on my VPS101 webmin or apache

But from another computer in my lan : 192.168.0.13, in can't acces the VPS101 or VPS102 but
can access to the node server

I think is a route probleme, but i can't solve it

Help !

Thanks

André

Subject: Re: VPS doesn't work outside Node server
Posted by [Vasily Tarasov](#) on Mon, 05 Mar 2007 15:29:46 GMT
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Hello,

If you ask such question, please, provide details:

```
# ip a l  
# ip r l  
# iptables -L  
# iptables -t nat -L  
# cat /proc/sys/net/ipv4/ip_forwarding
```

!!!these commands should be run in VE and on HN!!!

Thanks,

Vasily.

Subject: Re: VPS doesn't work outside Node server
Posted by [xwinner](#) on Tue, 06 Mar 2007 21:54:28 GMT
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Vasily Tarasov wrote on Mon, 05 March 2007 10:29>Hello,

If you ask such question, please, provide details:

```
# ip a l
# ip r l
# iptables -L
# iptables -t nat -L
# cat /proc/sys/net/ipv4/ip_forwarding
```

!!!these commands should be run in VE and on HN!!!

Thanks,
Vasily.

in Node Server:

```
[root@scrameustache vz]# ip a l
2: eth0: <BROADCAST,MULTICAST,UP> mtu 1500 qdisc pfifo_fast qlen 1000
   link/ether 00:0c:6e:40:24:1a brd ff:ff:ff:ff:ff:ff
   inet 192.168.0.10/24 brd 192.168.0.255 scope global eth0
4: eth1: <BROADCAST,MULTICAST> mtu 1500 qdisc noop qlen 1000
   link/ether 00:0c:6e:40:24:19 brd ff:ff:ff:ff:ff:ff
6: 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
1: venet0: <BROADCAST,POINTOPOINT,NOARP,UP> mtu 1500 qdisc noqueue
   link/void
3: veth101.0: <BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue
   link/ether 00:12:34:56:78:9b brd ff:ff:ff:ff:ff:ff
```

```
[root@scrameustache vz]# ip r l
192.168.0.101 dev veth101.0 scope link
192.168.0.101 dev venet0 scope link
192.168.0.0/24 dev eth0 proto kernel scope link src 192.168.0.10 metric 10
default via 192.168.0.1 dev eth0 metric 10
```

```
[root@scrameustache vz]# iptables -L
Chain Drop (1 references)
```

target	prot	opt	source	destination	
reject	tcp	--	anywhere	anywhere	tcp dpt:auth
dropBcast	all	--	anywhere	anywhere	
ACCEPT	icmp	--	anywhere	anywhere	icmp fragmentation-needed
ACCEPT	icmp	--	anywhere	anywhere	icmp time-exceeded
dropInvalid	all	--	anywhere	anywhere	
DROP	udp	--	anywhere	anywhere	multiport dports 135,microsoft-ds
DROP	udp	--	anywhere	anywhere	udp dpts:netbios-ns:netbios-ssn
DROP	udp	--	anywhere	anywhere	udp spt:netbios-ns dpts:1024:65535
DROP	tcp	--	anywhere	anywhere	multiport dports
135,netbios-ssn,microsoft-ds					
DROP	udp	--	anywhere	anywhere	udp dpt:1900
dropNotSyn	tcp	--	anywhere	anywhere	
DROP	udp	--	anywhere	anywhere	udp spt:domain

Chain INPUT (policy DROP)

target	prot	opt	source	destination	
ACCEPT	all	--	anywhere	anywhere	
lfw	all	--	anywhere	anywhere	
eth0_in	all	--	anywhere	anywhere	
venet0_in	all	--	anywhere	anywhere	
veth101_0_in	all	--	anywhere	anywhere	
sit0_in	all	--	anywhere	anywhere	
eth1_in	all	--	anywhere	anywhere	
Reject	all	--	anywhere	anywhere	
LOG	all	--	anywhere	anywhere	LOG level info prefix
`Shorewall:INPUT:REJECT:'					
reject	all	--	anywhere	anywhere	

Chain FORWARD (policy DROP)

target	prot	opt	source	destination	
eth0_fwd	all	--	anywhere	anywhere	
venet0_fwd	all	--	anywhere	anywhere	
veth101_0_fwd	all	--	anywhere	anywhere	
sit0_fwd	all	--	anywhere	anywhere	
eth1_fwd	all	--	anywhere	anywhere	
Reject	all	--	anywhere	anywhere	
LOG	all	--	anywhere	anywhere	LOG level info prefix
`Shorewall:FORWARD:REJECT:'					
reject	all	--	anywhere	anywhere	

Chain lfw (1 references)

target	prot	opt	source	destination	
RETURN	all	--	anywhere	anywhere	set ifw_wl src
DROP	all	--	anywhere	anywhere	set ifw_bl src
IFWLOG	all	--	anywhere	anywhere	state INVALID,NEW psd weight-threshold:
10 delay-threshold: 10000 lo-ports-weight: 1 hi-ports-weight: 2					IFWLOG prefix 'SCAN'
IFWLOG	udp	--	anywhere	anywhere	state NEW udp dpt:domain IFWLOG prefix

```

'NEW'
IFWLOG tcp -- anywhere anywhere state NEW tcp dpt:http IFWLOG prefix
'NEW'
IFWLOG tcp -- anywhere anywhere state NEW tcp dpt:https IFWLOG prefix
'NEW'
IFWLOG tcp -- anywhere anywhere state NEW tcp dpt:domain IFWLOG prefix
'NEW'
IFWLOG tcp -- anywhere anywhere state NEW tcp dpt:ssh IFWLOG prefix
'NEW'
IFWLOG tcp -- anywhere anywhere state NEW tcp dpt:ftp-data IFWLOG prefix
'NEW'
IFWLOG tcp -- anywhere anywhere state NEW tcp dpt:ftp IFWLOG prefix
'NEW'
IFWLOG tcp -- anywhere anywhere state NEW tcp dpt:smtp IFWLOG prefix
'NEW'
IFWLOG tcp -- anywhere anywhere state NEW tcp dpt:pop2 IFWLOG prefix
'NEW'
IFWLOG tcp -- anywhere anywhere state NEW tcp dpt:pop3 IFWLOG prefix
'NEW'
IFWLOG tcp -- anywhere anywhere state NEW tcp dpt:imap IFWLOG prefix
'NEW'
IFWLOG tcp -- anywhere anywhere state NEW tcp dpt:10000 IFWLOG prefix
'NEW'
IFWLOG tcp -- anywhere anywhere state NEW tcp dpt:4900 IFWLOG prefix

```

Chain OUTPUT (policy DROP)

```

target prot opt source destination
ACCEPT all -- anywhere anywhere
fw2net all -- anywhere anywhere
fw2loc all -- anywhere anywhere
fw2loc all -- anywhere anywhere
fw2loc all -- anywhere anywhere
Reject all -- anywhere anywhere
LOG all -- anywhere anywhere LOG level info prefix
`Shorewall:OUTPUT:REJECT:`
reject all -- anywhere anywhere

```

Chain Reject (4 references)

```

target prot opt source destination
reject tcp -- anywhere anywhere tcp dpt:auth
dropBcast all -- anywhere anywhere
ACCEPT icmp -- anywhere anywhere icmp fragmentation-needed
ACCEPT icmp -- anywhere anywhere icmp time-exceeded
dropInvalid all -- anywhere anywhere
reject udp -- anywhere anywhere multiport dports 135,microsoft-ds
reject udp -- anywhere anywhere udp dpts:netbios-ns:netbios-ssn

```

```

reject  udp -- anywhere      anywhere      udp spt:netbios-ns dpts:1024:65535
reject  tcp -- anywhere      anywhere
DROP    udp -- anywhere      anywhere
dropNotSyn tcp -- anywhere  anywhere
DROP    udp -- anywhere      anywhere      udp dpt:1900
DROP    udp -- anywhere      anywhere      udp spt:domain

```

Chain all2all (0 references)

```

target  prot opt source      destination
ACCEPT  all -- anywhere  anywhere      state RELATED,ESTABLISHED
Reject  all -- anywhere  anywhere
LOG     all -- anywhere  anywhere      LOG level info prefix
`Shorewall:all2all:REJECT:`
reject  all -- anywhere  anywhere

```

Chain dropBcast (2 references)

```

target  prot opt source      destination
DROP    all -- anywhere  anywhere      PKTTYPE = broadcast
DROP    all -- anywhere  anywhere      PKTTYPE = multicast

```

Chain dropInvalid (2 references)

```

target  prot opt source      destination
DROP    all -- anywhere  anywhere      state INVALID

```

Chain dropNotSyn (2 references)

```

target  prot opt source      destination
DROP    tcp -- anywhere  anywhere      tcp flags:!FIN,SYN,RST,ACK/SYN

```

Chain dynamic (10 references)

```

target  prot opt source      destination

```

Chain eth0_fwd (1 references)

```

target  prot opt source      destination
dynamic all -- anywhere  anywhere      state INVALID,NEW
net2all all -- anywhere  anywhere
net2all all -- anywhere  anywhere
net2all all -- anywhere  anywhere
net2all all -- anywhere  anywhere

```

Chain eth0_in (1 references)

```

target  prot opt source      destination
dynamic all -- anywhere  anywhere      state INVALID,NEW
net2fw  all -- anywhere  anywhere

```

Chain eth1_fwd (1 references)

```

target  prot opt source      destination
dynamic all -- anywhere  anywhere      state INVALID,NEW
loc2net all -- anywhere  anywhere
ACCEPT  all -- anywhere  anywhere

```

ACCEPT	all -- anywhere	anywhere	
ACCEPT	all -- anywhere	anywhere	
Chain eth1_in (1 references)			
target	prot opt source	destination	
dynamic	all -- anywhere	anywhere	state INVALID,NEW
loc2fw	all -- anywhere	anywhere	
Chain fw2loc (4 references)			
target	prot opt source	destination	
ACCEPT	all -- anywhere	anywhere	state RELATED,ESTABLISHED
ACCEPT	all -- anywhere	anywhere	
Chain fw2net (1 references)			
target	prot opt source	destination	
ACCEPT	all -- anywhere	anywhere	state RELATED,ESTABLISHED
ACCEPT	all -- anywhere	anywhere	
Chain loc2fw (4 references)			
target	prot opt source	destination	
ACCEPT	all -- anywhere	anywhere	state RELATED,ESTABLISHED
ACCEPT	all -- anywhere	anywhere	
Chain loc2net (4 references)			
target	prot opt source	destination	
ACCEPT	all -- anywhere	anywhere	state RELATED,ESTABLISHED
ACCEPT	all -- anywhere	anywhere	
Chain net2all (5 references)			
target	prot opt source	destination	
ACCEPT	all -- anywhere	anywhere	state RELATED,ESTABLISHED
Drop	all -- anywhere	anywhere	
LOG	all -- anywhere	anywhere	LOG level info prefix
`Shorewall:net2all:DROP:`			
DROP	all -- anywhere	anywhere	
Chain net2fw (1 references)			
target	prot opt source	destination	
ACCEPT	all -- anywhere	anywhere	state RELATED,ESTABLISHED
ACCEPT	udp -- anywhere	anywhere	udp dpt:domain
ACCEPT	tcp -- anywhere	anywhere	multiport dports
http,https,domain,ssh,ftp-data,ftp,smtp,pop2,pop3,imap,10000 ,4900			
net2all	all -- anywhere	anywhere	
Chain reject (10 references)			
target	prot opt source	destination	
DROP	all -- anywhere	anywhere	PKTTYPE = broadcast
DROP	all -- anywhere	anywhere	PKTTYPE = multicast

```

DROP    all -- 192.168.0.255    anywhere
DROP    all -- 255.255.255.255 anywhere
DROP    all -- BASE-ADDRESS.MCAST.NET/4 anywhere
REJECT  tcp -- anywhere        anywhere    reject-with tcp-reset
REJECT  udp -- anywhere        anywhere    reject-with icmp-port-unreachable
REJECT  icmp -- anywhere        anywhere    reject-with icmp-host-unreachable
REJECT  all -- anywhere        anywhere    reject-with icmp-host-prohibited

```

Chain shorewall (0 references)

```
target  prot opt source      destination
```

Chain sit0_fwd (1 references)

```
target  prot opt source      destination    state INVALID,NEW
dynamic all -- anywhere    anywhere
loc2net all -- anywhere    anywhere
ACCEPT  all -- anywhere    anywhere
ACCEPT  all -- anywhere    anywhere
ACCEPT  all -- anywhere    anywhere

```

Chain sit0_in (1 references)

```
target  prot opt source      destination    state INVALID,NEW
dynamic all -- anywhere    anywhere
loc2fw  all -- anywhere    anywhere

```

Chain smurfs (0 references)

```
target  prot opt source      destination    LOG level info prefix
LOG     all -- 192.168.0.255    anywhere
`Shorewall:smurfs:DROP:`
DROP    all -- 192.168.0.255    anywhere
LOG     all -- 255.255.255.255    anywhere    LOG level info prefix
`Shorewall:smurfs:DROP:`
DROP    all -- 255.255.255.255    anywhere
LOG     all -- BASE-ADDRESS.MCAST.NET/4 anywhere    LOG level info prefix
`Shorewall:smurfs:DROP:`
DROP    all -- BASE-ADDRESS.MCAST.NET/4 anywhere

```

Chain venet0_fwd (1 references)

```
target  prot opt source      destination    state INVALID,NEW
dynamic all -- anywhere    anywhere
loc2net all -- anywhere    anywhere
ACCEPT  all -- anywhere    anywhere
ACCEPT  all -- anywhere    anywhere
ACCEPT  all -- anywhere    anywhere

```

Chain venet0_in (1 references)

```
target  prot opt source      destination    state INVALID,NEW
dynamic all -- anywhere    anywhere
loc2fw  all -- anywhere    anywhere

```

Chain veth101_0_fwd (1 references)

```
target  prot opt source          destination
dynamic all -- anywhere      anywhere      state INVALID,NEW
loc2net all -- anywhere      anywhere
ACCEPT  all -- anywhere      anywhere
ACCEPT  all -- anywhere      anywhere
ACCEPT  all -- anywhere      anywhere
```

Chain veth101_0_in (1 references)

```
target  prot opt source          destination
dynamic all -- anywhere      anywhere      state INVALID,NEW
loc2fw  all -- anywhere      anywhere
```

[root@scrameustache vz]# iptables -t nat -L

Chain PREROUTING (policy ACCEPT)

```
target  prot opt source          destination
```

Chain POSTROUTING (policy ACCEPT)

```
target  prot opt source          destination
```

Chain OUTPUT (policy ACCEPT)

```
target  prot opt source          destination
```

[root@scrameustache vz]# cat /proc/sys/net/ipv4/ip_forward

1

IN VPS:

[root@scrameustache vz]# vzctl enter 101

entered into VE 101

[root@vps101 /]# 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 brd 127.255.255.255 scope host lo
```

```
3: venet0: <BROADCAST,POINTOPOINT,NOARP> mtu 1500 qdisc noop
   link/void
```

```
5: eth0: <BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue
   link/ether 00:12:34:56:78:9a brd ff:ff:ff:ff:ff:ff
   inet 192.168.0.101/32 scope global eth0
```

[root@vps101 /]# ip r l

```
default dev eth0 scope link
```

[root@vps101 /]# iptables -L

Chain INPUT (policy ACCEPT)


```
target prot opt source destination
```

Chain FORWARD (policy ACCEPT)

```
target prot opt source destination
```

Chain OUTPUT (policy ACCEPT)

```
target prot opt source destination
```

```
[root@vps101 /]# iptables -t nat -L
```

```
iptables v1.3.3: can't initialize iptables table `nat': Table does not exist (do you need to insmod?)  
Perhaps iptables or your kernel needs to be upgraded.
```

```
[root@vps101 /]# cat /proc/sys/net/ipv4/ip_forward
```

```
1
```

Voilà

it's a long post now

THanks,

André

Subject: Re: VPS doesn't work outside Node server

Posted by [Vasily Tarasov](#) on Wed, 07 Mar 2007 07:29:13 GMT

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Thanks for information, you've posted.

1) This seems to be strange for me:

```
[root@scrameustache vz]# ip r l
```

```
192.168.0.101 dev veth101.0 scope link
```

```
192.168.0.101 dev venet0 scope link
```

```
192.168.0.0/24 dev eth0 proto kernel scope link src 192.168.0.10 metric 10
```

```
default via 192.168.0.1 dev eth0 metric 10
```

Please, remove routing via venet: you don't use this interface as far as I understand. Note, that this line will automatically appear if you did some time `vzctl set <veid> --ipadd` and config file of VE in question contents IP_ADDRESS="...". So check that it doesn't happen.

2) Also, please, turn off iptables for a while, and check, does it solve the problem.

Thanks,

Vasily

Subject: Re: VPS doesn't work outside Node server
Posted by [xwinner](#) on Sat, 10 Mar 2007 16:23:55 GMT
[View Forum Message](#) <> [Reply to Message](#)

Vasily Tarasov wrote on Wed, 07 March 2007 02:29: Thanks for information, you've posted.

1) This seems to be strange for me:

```
[root@scrameustache vz]# ip r l
192.168.0.101 dev veth101.0 scope link
192.168.0.101 dev venet0 scope link
192.168.0.0/24 dev eth0 proto kernel scope link src 192.168.0.10 metric 10
default via 192.168.0.1 dev eth0 metric 10
```

Please, remove routing via venet: you don't use this interface as far as I understand. Note, that this line will automatically appear if you did some time ``vzctl set <veid> --ipadd`` and config file of VE in question contents `IP_ADDRESS="..."`. So check that it doesn't happen.

2) Also, please, turn off iptables for a while, and check, does it solve the problem.

Thanks,
Vasily

Thanks, i don't know how exactly remove venet route, is it only in the vps101.conf ?

this is my vps101.conf:

```
#
# it under the terms of the GNU General Public License as published by
#
# This program is distributed in the hope that it will be useful,
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
#
```

```
ONBOOT=yes
```

```
# Primary parameters
AVNUMPROC=40:40
NUMPROC=65:65
```

```
NUMTCPSOCK=80:80
NUMOTHERSOCK=80:80
VMGUARPAGES=6144:2147483647
# Secondary parameters
KMEMSIZE=2752512:2936012
TCPSNDBUF=319488:524288
TCPRCVBUF=319488:524288
OTHERSOCKBUF=132096:336896
DGRAMRCVBUF=132096:132096
OOMGUARPAGES=6144:2147483647
# Auxiliary parameters
LOCKEDPAGES=32:32
SHMPAGES=8192:8192
PRIVVMPAGES=49152:53575
NUMFILE=2048:2048
NUMFLOCK=100:110
NUMPTY=16:16
NUMSIGINFO=256:256
DCACHESIZE=1048576:1097728
```

```
PHYSPAGES=0:2147483647
NUMIPTENT=128:128
```

```
DISKSPACE=4500000:4500000
DISKINODES=200000:220000
QUOTATIME=0
```

```
# CPU fair sheduler parameter
CPUUNITS=1000
VE_ROOT=/vz/root/$VEID
VE_PRIVATE=/vz/private/$VEID
OSTEMPLATE=mandriva-2006-i386-minimal
ORIGIN_SAMPLE=vps.basic
#IP_ADDRESS="192.168.0.101"
HOSTNAME="vps101.localdomain."
NAMESERVER="192.168.0.10"
NETIF=ifname=eth0,mac=00:12:34:56:78:9A,host_ifname=veth101.
0,host_mac=00:12:34:56:78:9B
```

Subject: Re: VPS doesn't work outside Node server
Posted by [Vasily Tarasov](#) on Sun, 11 Mar 2007 07:29:49 GMT
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Hello,

I see, that your VE config file has commented line `IP_ADDRESS=".."`, so the routing rule in question should not appear on VE start. But the rule could appear earlier, and if you edited VE

config manually while VE start the rule stays in routing table "permanently" (well, I mean, that `vzctl stop` will not remove this rule) So, please, do it manually:
ip r d 192.168.0.101 dev venet0
and then check that the rule is disappeared.

HTH,
Vasily

Subject: Re: VPS doesn't work outside Node server
Posted by [xwinner](#) on Sun, 11 Mar 2007 12:26:47 GMT
[View Forum Message](#) <> [Reply to Message](#)

Vasily Tarasov wrote on Sun, 11 March 2007 02:29Hello,

I see, that your VE config file has commented line IP_ADDRESS="..", so the routing rule in question should not appear on VE start. But the rule could appear earlier, and if you edited VE config manually while VE start the rule stays in routing table "permanently" (well, I mean, that `vzctl stop` will not remove this rule) So, please, do it manually:
ip r d 192.168.0.101 dev venet0
and then check that the rule is disappeared.

HTH,
Vasily

Hello,

this is what I try, is it right ?

```
[root@scrameustache init.d]# ip r d 192.168.0.101 dev venet0
RTNETLINK answers: No such process
[root@scrameustache init.d]# ./vz stop
Shutting down VE 101
Stopping OpenVZ:                                [ OK ]
[root@scrameustache init.d]# ./vz start
Starting OpenVZ:                                [ OK ]
Bringing up interface venet0:                   [ OK ]
Configuring interface venet0:                   [ OK ]
Configure node UB resources:                     [ OK ]
Starting VE 101:                                 [ OK ]
[root@scrameustache init.d]# ip r d 192.168.0.101 dev venet0
RTNETLINK answers: No such process
```

BUT, the vps works, if i make this script:

```
#!/bin/sh
# Script name : ServerConfig
```

```
# Configuration du serveur au démarrage du serveur
```

```
# [Console Serveur Principal]
```

```
ifconfig veth101.0 0  
echo 1 > /proc/sys/net/ipv4/conf/veth101.0/forwarding  
echo 1 > /proc/sys/net/ipv4/conf/veth101.0/proxy_arp  
echo 1 > /proc/sys/net/ipv4/conf/eth0/forwarding  
echo 1 > /proc/sys/net/ipv4/conf/eth0/proxy_arp
```

```
vzctl exec 101 /sbin/ifconfig eth0 0  
vzctl exec 101 /sbin/ip addr add 192.168.0.101 dev eth0  
vzctl exec 101 /sbin/ip route add default dev eth0
```

```
ip route append 192.168.0.101 dev veth101.0  
ip route del 192.168.0.101 dev venet0
```

```
./etc/rc.d/init.d/iptables stop  
./etc/rc.d/init.d/iptables start  
# End
```

This script can help me to run vps fine but i think this is not a clean procedure. If I reboot it works only if I start it via rc.local with this commande:

```
echo /vz/ServerConfig | at now + 1 minutes
```

note: iptables stop & start is your good idea without this stop and start, the vps doesn't work on reboot