## Subject: "Connection refused" when connecting from VE to host's public IP Posted by Ventzy on Sun, 15 Dec 2013 00:44:41 GMT

View Forum Message <> Reply to Message

Hello,

I have my network config like this - single public IP address, assigned to the host (eth0) and multiple VEs in private network with IPs like 10.0.X.X. I have apache in one VE, mysql in other and so on. I have port forwarding on host for apache like this: iptables -t nat -A PREROUTING -p TCP -i eth0 --dport 80 -j DNAT --to 10.0.0.3:80

This works as expected - I can access web sites hosted in 10.0.0.3 from outside through host's public IP and 10.0.0.3 connects successfully to Internet. The problem is that I cannot connect from VE to the public IP of the host. Let's say my public IP is 1.1.1.1, then I get this from 10.0.0.3 root@apache:/# telnet 1.1.1.1 80

Trying 1.1.1.1...

telnet: Unable to connect to remote host: Connection refused

What in the end I want to do is to load a web page from withing 10.0.0.3 that is hosted on 10.0.0.3. I have domain mydomain.com which resolves to 1.1.1.1 and when I try to load http://mydomain.com/ from 10.0.0.3, domain is resolved to 1.1.1.1 and connection is refused as with telnet example.

I can workaround the problem if in the 10.0.0.3 /etc/hosts add

10.0.0.3 mydomain.com

I don't like that solution, because I have hundreds of sites and on new site I must alter hosts file. Besides, if some other software needs to create connection to the 1.1.1.1 it will fail.

I use Proxmox 3.1 and here are my /etc/network/interfaces on the host

auto lo inet loopback

auto eth0
iface eth0 inet static
address 1.1.1.1
netmask 255.255.255.240
gateway 2.2.2.2
post-up echo 1 > /proc/sys/net/ipv4/conf/eth0/proxy\_arp

auto vmbr0
iface vmbr0 inet static
address 10.0.0.1
netmask 255.255.255.0
bridge\_ports none

bridge\_stp off bridge\_fd 0

post-up echo 1 > /proc/sys/net/ipv4/ip\_forward post-up iptables -t nat -A POSTROUTING -s '10.0.0.0/16' -o eth0 -j MASQUERADE post-down iptables -t nat -D POSTROUTING -s '10.0.0.0/16' -o eth0 -j MASQUERADE

And on container

auto lo iface lo inet loopback

# Auto generated venet0 interface
auto venet0
iface venet0 inet manual
 up ifconfig venet0 up
 up ifconfig venet0 127.0.0.2
 up route add default dev venet0
 down route del default dev venet0
 down ifconfig venet0 down

iface venet0 inet6 manual
up route -A inet6 add default dev venet0
down route -A inet6 del default dev venet0

auto venet0:0 iface venet0:0 inet static address 10.0.0.3 netmask 255.255.255.255

Here is the output of iptables -t nat -L && iptables -t filter -L && iptables -t mangle -L command

Chain PREROUTING (policy ACCEPT)

target prot opt source destination

DNAT tcp -- anywhere anywhere

DNAT tcp -- anywhere anywhere tcp dpt:mysql to:10.0.0.2:3306
DNAT tcp -- anywhere anywhere tcp dpt:https to:10.0.0.3:443
DNAT tcp -- anywhere anywhere tcp dpt:http to:10.0.0.3:80

Chain POSTROUTING (policy ACCEPT) target prot opt source destination

MASQUERADE all -- 10.0.0.0/16 anywhere

Chain OUTPUT (policy ACCEPT)

target prot opt source destination

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

Chain PREROUTING (policy ACCEPT)

target prot opt source destination

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

Chain POSTROUTING (policy ACCEPT)

target prot opt source destination

How can I solve the problem?

Subject: Re: "Connection refused" when connecting from VE to host's public IP Posted by grep on Sun, 15 Dec 2013 17:06:49 GMT

View Forum Message <> Reply to Message

What says traceroute 1.1.1.1 from ve?

and route -n in ve.

Subject: Re: "Connection refused" when connecting from VE to host's public IP Posted by Ventzy on Sun, 15 Dec 2013 20:34:30 GMT

View Forum Message <> Reply to Message

grep wrote on Sun, 15 December 2013 19:06What says traceroute 1.1.1.1 from ve?

and route -n in ve.

root@apache:/# traceroute 1.1.1.1 traceroute to 1.1.1.1 (1.1.1.1), 30 hops max, 60 byte packets 1 ip-1-1.host.com (1.1.1.1) 0.065 ms 0.015 ms 0.011 ms root@apache:/# route -n Kernel IP routing table Destination

Genmask Gateway Flags Metric Ref Use Iface

0.0.0.0 0.0.0.0 0.0.0.0 U 0 0 venet0 0

Subject: Re: "Connection refused" when connecting from VE to host's public IP Posted by grep on Mon, 16 Dec 2013 07:52:41 GMT

View Forum Message <> Reply to Message

So your server answers. Can you ssh into it? is only http refused?

iptables from ve (iptables-save in terminal to show all)?

Subject: Re: "Connection refused" when connecting from VE to host's public IP Posted by Ventzy on Mon, 16 Dec 2013 12:18:38 GMT

View Forum Message <> Reply to Message

grep wrote on Mon, 16 December 2013 09:52So your server answers. Can you ssh into it? is only http refused?

iptables from ve (iptables-save in terminal to show all)?

I get "Connection refused" from VE to host for all ports, that was redirected in the host with

iptables -t nat -A PREROUTING -p TCP -i eth0 --dport 80 -j DNAT --to 10.0.0.3:80

I have no such forwarding rule on port 22, so I have no problem. Here is summary of different scenarios

| Non-redirected port (22) | Redirected port (80) | Outside -> Host | OK 5.6.7.8 -> 1.1.1.1 VE -> Host | OK | Connection refused | 10.0.0.3 -> 1.1.1.1 |

There are no iptable rules in the VE.

I am far from expert in this and may be wrong, but I suspect that I have "NAT loopback" issue like

Page 5 of 5 ---- Generated from OpenVZ Forum