Subject: SOLVED: Destination Host Unreachable from VE on Public IP
Posted by 4drob on Fri, 19 Sep 2008 22:47:51 GMT
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I'm new to OpenVZ, but have read a bit about it. My HN is running a fresh copy of Ubuntu 8.04. I followed the Debian install guide (where applicable) to configure a VE with the Ubuntu 8.04 template found on the wiki.

The VE is on it's own public IP (same subnet as the HN). The VE can ping IP addresses out on the internet and can correctly resolve domain names, but it can't ping domain names (get Destination Host Unreachable) and thus can't use apt-get to update, wget, etc.

The VE can be pinged by the HN and from inside the network by IP but not from outside the network (packets get to HN then time out). No firewall setup. Maybe I'm missing something, but I've read through all the documentation I could find, tried different variations of settings, destroyed and re-created the VE multiple times, and I'm just out of ideas. The same network does have 3 other HNs running Virtuozzo with VEs on their own public IPs working just fine. Thanks in advance for any help or suggestions!

HN:
uname -r
2.6.24-19-openvz

ip a l
1: lo: <LOOPBACK,UP,LOWER_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
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 100
    link/ether 00:30:48:2f:85:16 brd ff:ff:ff:ff:ff:ff
    inet 67.30.129.74/23 brd 67.30.129.255 scope global eth0
    inet6 fe80::230:48ff:fe2f:8516/64 scope link
       valid_lft forever preferred_lft forever
3: eth1: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 00:30:48:2f:85:17 brd ff:ff:ff:ff:ff:ff
    inet 67.30.129.75/23 brd 67.30.129.255 scope global eth1
21: venet0: <BROADCAST,POINTOPOINT,NOARP,UP,LOWER_UP> mtu 1500 qdisc noqueue
    link/void

sysctl -p
kernel.printk = 4 4 1 7 (set by Ubuntu openvz-meta installer script)
kernel.maps_protect = 1 (" ")
fs.inotify.max_user_watches = 524288 (" ")
error: "vm.mmap_min_addr" is an unknown key (set to 65536 by script)
net.ipv4.conf.default.forwarding = 1
net.ipv4.conf.default.proxy_arp = 0
net.ipv4.ip_forward = 1

net.ipv4.conf.all.rp_filter = 1
net.ipv4.conf.default.send_redirects = 1
net.ipv4.conf.all.send_redirects = 0
kernel.sysrq = 1

ip rule list
0:	from all lookup local
32766:	from all lookup main
32767:	from all lookup default

iptables -t nat -L && iptables -t filter -L && iptables -t mangle -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
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

VE:
ping google.com
PING google.com (64.233.167.99) 56(84) bytes of data.
From 67-30-129-74.4servers.com (67.30.129.74) icmp_seq=7 Destination Host Unreachable

ping 67.30.129.74
PING 67.30.129.74 (67.30.129.74) 56(84) bytes of data.
64 bytes from 67.30.129.74: icmp_seq=1 ttl=64 time=0.074 ms

tcpdump -i venet0:0 -e -n host google.com
-bash: tcpdump: command not found

ip a l
1: lo: <LOOPBACK,UP,LOWER_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
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: venet0: <BROADCAST,POINTOPOINT,NOARP,UP,LOWER_UP> mtu 1500 qdisc noqueue
    link/void
    inet 127.0.0.1/32 scope host venet0
    inet 67.30.129.76/32 scope global venet0:0

ip route list table all
192.0.2.1 dev venet0  scope link
default via 192.0.2.1 dev venet0
broadcast 127.255.255.255 dev lo  table local  proto kernel  scope link  src 127.0.0.1
local 67.30.129.76 dev venet0  table local  proto kernel  scope host  src 67.30.129.76
broadcast 127.0.0.0 dev lo  table local  proto kernel  scope link  src 127.0.0.1
local 127.0.0.1 dev lo  table local  proto kernel  scope host  src 127.0.0.1
local 127.0.0.1 dev venet0  table local  proto kernel  scope host  src 127.0.0.1
local 127.0.0.0/8 dev lo  table local  proto kernel  scope host  src 127.0.0.1
unreachable default dev lo  table unspec  proto none  metric -1  error -101 hoplimit 255
local ::1 via :: dev lo  table local  proto none  metric 0  mtu 16436 advmss 16376 hoplimit
4294967295
unreachable default dev lo  table unspec  proto none  metric -1  error -101 hoplimit 255

ip -V
ip utility, iproute2-ss071016

from my box outside the network
tracert 67.30.129.76
[snip]
 9    75 ms    74 ms    76 ms  so-3-0-0.mp1.Tustin1.Level3.net [209.247.8.118]
10    77 ms    75 ms    76 ms  so-9-0.hsa1.Tustin1.Level3.net [4.68.114.6]
11    77 ms    77 ms    78 ms  65.58.240.18
12    78 ms    79 ms    79 ms  67-30-129-74.4servers.com [67.30.129.74]
13     *        *        *     Request timed out.
```

Subject: Re: Destination Host Unreachable from VE on Public IP
Posted by gtcnet on Fri, 19 Sep 2008 23:41:57 GMT
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What does /etc/resolv.conf show?

did you apply a nameserver?

vzctl set XXX --nameserver x.x.x.x --save

Subject: Re: Destination Host Unreachable from VE on Public IP
Posted by 4drob on Sat, 20 Sep 2008 14:25:54 GMT
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Hello, thanks for your response. Yes I did apply the correct nameservers for my network. resolv.conf for both the HN and VE read:

nameserver 67.30.129.1
nameserver 128.121.254.73

The HN and VE resolve the correct IP from names fine, the VE just gets "Destination Host Unreachable" when attempting to send traffic using names.

Subject: Re: Destination Host Unreachable from VE on Public IP
Posted by maratrus on Mon, 22 Sep 2008 13:11:27 GMT
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Hello,

a few questions just to clarify the situation:

1.
Quote:
ping google.com
PING google.com (64.233.167.99) 56(84) bytes of data.
From 67-30-129-74.4servers.com (67.30.129.74) icmp_seq=7 Destination Host Unreachable

Are you able to "ping 64.233.167.99" from inside the VE?

2.
Quote:
tcpdump -i venet0:0 -e -n host google.com
-bash: tcpdump: command not found

You'd better install tcpdump inside VE.

3.
Please, also "ip route list table all", "arp -n" from the HN

Subject: Re: Destination Host Unreachable from VE on Public IP
Posted by 4drob on Mon, 22 Sep 2008 17:19:58 GMT
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I wasn't able to ping 64.233.167.99, but now it's actually working.

It was very strange, some of the traffic on the network was actually being routed to the HN, causing some other servers on the subnet to become unreachable via the internet. I changed the IP of the HN (which was previously used fine before the installation of openvz), added net.ipv4.icmp_echo_ignore_broadcasts=1 to /etc/sysctl.conf per this howto, and the VE's internet connection started working fine! Really strange... thanks for the possible suggestions though.