
Subject: *SOLVED* broken networking...

Posted by [wilf](#) on Wed, 17 Jan 2007 09:25:45 GMT

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Hi,

I pinched Kai's format for this message as it seemed so clear and well presented

I am running

Quote:VZHost~# uname -a

Linux vzhost.b.c.uk 2.6.18-028test010 #2 Sun Jan 14 10:13:12 GMT 2007 x86_64 AMD

Athlon(tm) 64 Processor 3200+ AuthenticAMD GNU/Linux

VZHost~# vzctl --version

vzctl version 3.0.13

under Gentoo 2006.1 for amd64.

Installation went fine, can vzctl enter from the VZHost to the VPS.

Network is up and running on the VZHost, and can ping internal and external addresses successfully.

I can ping from the VZHost to the outside world

I can ping from the outside world to the VZHost

I can't ping from the VZHost to the VPS

I can't ping from the VPS to the VZHost (or anywhere else for that matter)

Here is some info:

ifconfig -a

VZHost

VZHost:~# ifconfig -a

eth0 Link encap:Ethernet HWaddr 00:61:71:24:FB:AA

inet addr:x.y.z.31 Bcast:x.y.z.255 Mask:255.255.255.0

inet6 addr: fe80::216:17ff:fe42:6948/64 Scope:Link

UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:1005904 errors:0 dropped:0 overruns:0 frame:0

TX packets:1079156 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:294041256 (280.4 Mb) TX bytes:789113682 (752.5 Mb)

Interrupt:16 Base address:0x4000

eth1 Link encap:Ethernet HWaddr 00:61:71:24:FB:AB

inet addr:a.b.c.134 Bcast:a.b.c.135 Mask:255.255.255.252

inet6 addr: fe80::216:17ff:fe42:6f08/64 Scope:Link

UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:1047700 errors:0 dropped:0 overruns:0 frame:0

TX packets:966836 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:789674957 (753.0 Mb) TX bytes:286766768 (273.4 Mb)

Interrupt:17 Base address:0x6000

```

lo      Link encap:Local Loopback
        inet addr:127.0.0.1  Mask:255.0.0.0
        inet6 addr: ::1/128 Scope:Host
        UP LOOPBACK RUNNING  MTU:16436  Metric:1
        RX packets:25765 errors:0 dropped:0 overruns:0 frame:0
        TX packets:25765 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:2885680 (2.7 Mb)  TX bytes:2885680 (2.7 Mb)

venet0  Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
        UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1
        RX packets:12 errors:0 dropped:0 overruns:0 frame:0
        TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:1008 (1008.0 b)  TX bytes:0 (0.0 b)

```

VPS:

```

VZHost:~# vzctl exec 101  ifconfig -a
lo      Link encap:Local Loopback
        inet addr:127.0.0.1  Mask:255.0.0.0
        inet6 addr: ::1/128 Scope:Host
        UP LOOPBACK RUNNING  MTU:16436  Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
        TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)

venet0  Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
        inet addr:x.y.z.80  P-t-P:x.y.z.80  Bcast:0.0.0.0  Mask:255.255.255.255
        UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
        TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)

```

route -n
VZHost:

```

VZHost:~# route -n
Kernel IP routing table
Destination  Gateway      Genmask      Flags Metric Ref  Use Iface
x.y.z.80    0.0.0.0      255.255.255.255 UH  0    0    0 venet0
a.b.c.132    0.0.0.0      255.255.255.252 U   0    0    0 eth1
x.y.z.0      x.y.z.46     255.255.255.0  UG   0    0    0 eth0

```

```
x.y.z.0      0.0.0.0      255.255.255.0 U    0    0    0 eth0
127.0.0.0    0.0.0.0      255.0.0.0    U    0    0    0 lo
0.0.0.0      a.b.c.133     0.0.0.0      UG   0    0    0 eth1
```

VPS:

```
VZHost:~# vzctl exec 101 route -n
```

Kernel IP routing table

```
Destination  Gateway      Genmask      Flags Metric Ref  Use Iface
191.255.255.0 0.0.0.0      255.255.255.0 U    0    0    0 venet0
127.0.0.0     127.0.0.1    255.0.0.0    UG   0    0    0 lo
0.0.0.0       191.255.255.1 0.0.0.0      UG   0    0    0 venet0
```

These are the VPSs on my VZHost:

```
VZHost:~# vzlist -a
```

```
VPSID  NPROC STATUS IP_ADDR  HOSTNAME
101    1 running -
```

I created a sh script to show what is happening and what is not happening:-

```
echo ----- VPS
vzctl exec 101 ifconfig -a
echo ----- VZHost
ifconfig -a
ping -c 5 x.y.z.80
echo ----- VPS
vzctl exec 101 ifconfig -a
echo ----- VZHost
ifconfig -a
echo ----- VPS
vzctl exec 101 ping -c 5 x.y.z.31
echo ----- VPS
vzctl exec 101 ifconfig -a
echo ----- VZHost
ifconfig -a
```

I ran the script as follows:-

```
2>&1 ~/netvpsstat | tee ~/netvps.txt
```

I have pruned the lo and eth interfaces from the following results in ~/netvps.txt for clarity (and hopefully I haven't removed the most important info).

Quote:----- VPS

```
venet0  Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
        inet addr:x.y.z.80 P-t-P:x.y.z.80 Bcast:0.0.0.0 Mask:255.255.255.255
        UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
        TX packets:25 errors:0 dropped:0 overruns:0 carrier:0
```

collisions:0 txqueuelen:0
RX bytes:0 (0.0 b) TX bytes:2100 (2.0 Kb)

----- VZHost

venet0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1
RX packets:37 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:3108 (3.0 Kb) TX bytes:0 (0.0 b)

PING x.y.z.80 (x.y.z.80) 56(84) bytes of data.
From x.y.z.31 icmp_seq=1 Destination Host Unreachable
From x.y.z.31 icmp_seq=1 Destination Host Unreachable
From x.y.z.31 icmp_seq=1 Destination Host Unreachable
From x.y.z.31 icmp_seq=1 Destination Host Unreachable
From x.y.z.31 icmp_seq=1 Destination Host Unreachable

--- x.y.z.80 ping statistics ---
0 packets transmitted, 0 received, +5 errors

----- VPS

venet0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
inet addr:x.y.z.80 P-t-P:x.y.z.80 Bcast:0.0.0.0 Mask:255.255.255.255
UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:25 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:0 (0.0 b) TX bytes:2100 (2.0 Kb)

----- VZHost

venet0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1
RX packets:37 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:3108 (3.0 Kb) TX bytes:0 (0.0 b)

----- VPS

PING x.y.z.31 (x.y.z.31) 56(84) bytes of data.

--- x.y.z.31 ping statistics ---
5 packets transmitted, 0 received, 100% packet loss, time 3999ms

----- VPS

venet0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
inet addr:x.y.z.80 P-t-P:x.y.z.80 Bcast:0.0.0.0 Mask:255.255.255.255
UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1

RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:30 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:0 (0.0 b) TX bytes:2520 (2.4 Kb)

----- VZHost

venet0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1
RX packets:42 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:3528 (3.4 Kb) TX bytes:0 (0.0 b)

From this, I can see that

- o the VZHost is not sending packets to the VPS
- o the VPS is successfully sending packets to the VZHost - which is not responding.

Any help is appreciated,

Paul
