Subject: Strange networking problem
Posted by Boden on Thu, 18 Sep 2008 16:35:36 GMT
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New to OpenVZ.

I have an OpenVZ server with two physical NICs. One NIC is public facing and I can't reach it without hopping out to my ISP and back. The other NIC is inward facing, but I'm not doing any sort of routing. I use the internal NIC to service the machine. This works fine.

The problem is that I would like one of the VEs on the machine to also have two NICs, one public and one internal. The reason is that I have to transfer large files to and from an application in this VE, and would prefer a more direct route to the system.

I got this "working" by creating a veth device for the VE, such that it has both venet0:0 with a public IP and eth1 with a private IP. eth1 corresponds to veth101.1 on the HN. After a bit of configuration, it seemed to work, except the connection is intermittent.

The VE's "internal" ip is 10.0.2.10. If I ping this interface from the hardware node, sometimes I'll get a "destination unreachable" error on the first ping, and then all subsequent pings will succeed. When I connect to 10.0.2.10 from another machine on the network, the connection very often will fail, but occasionally work. If I let a ping to 10.0.2.10 from the hardware node run continuously, connections from elsewhere on the network always seem to work. It's like the interface falls asleep until the hardware node pokes it with a stick and says "hey buddy, wake up".

The configuration is this:

HN:

eth0, physical: public facing
eth1: physical: private, IP 10.0.2.6

The VE .conf file declares:
NETIF=" ifname=eth1,mac=00:18:51:A4:CD:89,host_ifname=veth101.1,host
_mac=00:18:51:6F:65:14 "

#ip route
10.0.4.20 dev venet0 scope link src 10.0.4.6
10.0.4.10 dev venet0 scope link src 10.0.4.6
10.0.2.10 dev veth101.1 scope link src 10.0.2.6
10.0.4.0/24 dev eth0 proto kernel scope link src 10.0.4.6
10.0.2.0/24 dev eth1 proto kernel scope link src 10.0.2.6
default via 10.0.4.1 dev eth0 metric 100

echo 1 > /proc/sys/net/ipv4/conf/veth101.1/forwarding
echo 1 > /proc/sys/net/ipv4/conf/veth101.1/proxy_arp
echo 1 > /proc/sys/net/ipv4/conf/eth1/forwarding 1
echo 1 > /proc/sys/net/ipv4/conf/eth1/proxy_arp 1

VE

```
# ifconfig
eth1      Link encap:Ethernet  HWaddr 00:18:51:a4:cd:89
          inet addr:10.0.2.10  Bcast:10.0.2.255  Mask:255.255.255.0
          inet6 addr: fe80::218:51ff:fea4:cd89/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:1460 errors:0 dropped:0 overruns:0 frame:0
          TX packets:1582 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:189047 (184.6 KB)  TX bytes:1308848 (1.2 MB)

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:128046 errors:0 dropped:0 overruns:0 frame:0
          TX packets:128046 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:16350942 (15.5 MB)  TX bytes:16350942 (15.5 MB)

venet0    Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
          inet addr:127.0.0.1  P-t-P:127.0.0.1  Bcast:0.0.0.0  Mask:255.255.255.255
          UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1
          RX packets:1115 errors:0 dropped:0 overruns:0 frame:0
          TX packets:974 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:1262900 (1.2 MB)  TX bytes:349670 (341.4 KB)

venet0:0  Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
          inet addr:10.0.4.10  P-t-P:10.0.4.10  Bcast:0.0.0.0  Mask:255.255.255.255
          UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1
```