Subject: Host Node lost network upon install and restart
Posted by felixchang on Thu, 05 Jun 2014 11:24:19 GMT
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I am extremely new to linux and Openvz and has been trying to setup a small test server to achieve some tasks.

I am running Centos 6.5 and has been running happily as standalone server. My network setting is extremely simple. One main ip 192.168.42.170 with two virtual ip 192.168.42.171 and 192.168.42.172.

I then follow the instruction on openvz.org/Quick_installation#Tools_installation and completed everything successfully and then reboot into openVZ.
The system rebooted ok.

So I am about to download OS template to have the fun of creating the containers. That is when I realize I do not have network.

I then make sure I am running the right kernel :

uname -a
Linux server2.localdomain 2.6.32-042stab090.2 #1 SMP Wed May 21 19:25:13 MSK 2014 i686 i686 i386 GNU/Linux

then I check the network :

```
[root@server2 ~]# ifconfig
eth0      Link encap:Ethernet  HWaddr D4:AE:52:C7:F0:34
          inet addr:192.168.42.170  Bcast:192.168.42.255  Mask:255.255.255.0
          inet6 addr: fe80::d6ae:52ff:fec7:f034/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:2713 errors:0 dropped:0 overruns:0 frame:0
          TX packets:2164 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:811470 (792.4 KiB)  TX bytes:281383 (274.7 KiB)
          Interrupt:16

eth0:1    Link encap:Ethernet  HWaddr D4:AE:52:C7:F0:34
          inet addr:192.168.42.171  Bcast:192.168.42.255  Mask:255.255.255.0
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          Interrupt:16

eth0:2    Link encap:Ethernet  HWaddr D4:AE:52:C7:F0:34
          inet addr:192.168.42.172  Bcast:192.168.42.255  Mask:255.255.255.0
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          Interrupt:16

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:24 errors:0 dropped:0 overruns:0 frame:0
        TX packets:24 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:1632 (1.5 KiB)  TX bytes:1632 (1.5 KiB)

venet0    Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
        inet6 addr: fe80::1/128 Scope:Link
        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:3 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
```

I can not tell if anything go wrong.

After many hours of debugging, I realize the network will be back if I stop the firewall

#service iptables stop

My iptables look like

```
# Firewall configuration written by system-config-firewall
# Manual customization of this file is not recommended.
*filter
:INPUT ACCEPT [0:0]
:FORWARD ACCEPT [0:0]
:OUTPUT ACCEPT [0:0]
-A INPUT -m state --state ESTABLISHED,RELATED -j ACCEPT
-A INPUT -p icmp -j ACCEPT
-A INPUT -i lo -j ACCEPT
-A INPUT -m state --state NEW -m tcp -p tcp --dport 21 -j ACCEPT
-A INPUT -m state --state NEW -m udp -p udp --dport 137 -j ACCEPT
-A INPUT -m state --state NEW -m udp -p udp --dport 138 -j ACCEPT
-A INPUT -m state --state NEW -m tcp -p tcp --dport 443 -j ACCEPT
-A INPUT -m state --state NEW -m tcp -p tcp --dport 80 -j ACCEPT
-A INPUT -m state --state NEW -m tcp -p tcp --dport 10000 -j ACCEPT
-A INPUT -m state --state NEW -m tcp -p tcp --dport 5901 -j ACCEPT
-A INPUT -j REJECT --reject-with icmp-host-prohibited
-A FORWARD -j REJECT --reject-with icmp-host-prohibited
COMMIT
```

If I investigate by "tcpdump port portnum" using portnum 80 (web http) or 5901 (vncserver)and start the browser or vncserver application, no package is detected by tcpdump.

What could be blocking the port ? It only happens after I install the openvz.

I am not even sure how to continue from here now

Any help is appreciated.

Subject: Re: Host Node lost network upon install and restart
Posted by loki on Thu, 05 Jun 2014 19:13:22 GMT
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You should exclude your venet0 from firewall config if using csf, look up google on allowing all trafic for venet0

Subject: Re: Host Node lost network upon install and restart
Posted by felixchang on Fri, 06 Jun 2014 07:59:54 GMT
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I do not quite get this. I see one venet0 interface created after openvz installation. What way have I included this in firewall configuration ?

Subject: Re: Host Node lost network upon install and restart
Posted by Ales on Sat, 07 Jun 2014 22:42:25 GMT
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Firewall issues (?) aside, this is the single most repeated mistake when using openvz for the first time:

eth0:1 Link encap:Ethernet HWaddr D4:AE:52:C7:F0:34
inet addr:192.168.42.171 Bcast:192.168.42.255 Mask:255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
Interrupt:16

eth0:2 Link encap:Ethernet HWaddr D4:AE:52:C7:F0:34
inet addr:192.168.42.172 Bcast:192.168.42.255 Mask:255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
Interrupt:16

Remove the two additional IPs you have from eth0, unbind them. Just keep 192.168.42.170.

Then you'll be able to use .171 and .172 for your openvz containers, otherwise they won't work.

Subject: Re: Host Node lost network upon install and restart
Posted by felixchang on Mon, 09 Jun 2014 01:50:37 GMT
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This is a test machine with one single NIC card. Currently it is serving some web server from some public address A and through router's NAT mapped directly to the main ip of this machine. ie public address A --> router -> main IP.

I got two other public IP (say B and C) so I want to map it to two more virtual IP in this machine so that is the reason for me to have two additional IP.

I also do not understand why I could not have two more virtual IP. Otherwise how else can I map the other public IP to this machine?

After much struggling, I found that if I do the followings, the network problem will go away :

in /etc/vz/vz.conf, set
IPTABLES_MODULES= "ipt_REJECT ipt_tos ipt_limit ipt_multiport iptable_filter iptable_mangle ipt_TCPMSS ipt_tcpmss ipt_ttl ipt_length ipt_state"

Edit /etc/modprobe.d/openvz.conf to options nf_conntrack ip_conntrack_disable_ve0=0

Not sure exactly why but it works.

However, if I do a "service network restart", all the IP will disappear and I have to restart the machine to get back the same state.

Not as easy as I thought in setting up openvz.

Subject: Re: Host Node lost network upon install and restart
Posted by Ales on Mon, 09 Jun 2014 12:09:24 GMT
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felixchang wrote on Mon, 09 June 2014 03:50I got two other public IP (say B and C) so I want to map it to two more virtual IP in this machine so that is the reason for me to have two additional IP.

I also do not understand why I could not have two more virtual IP. Otherwise how else can I map the other public IP to this machine?
Think of your venet0 as another network card. If you want to use IP B and C on the node, add them to eth0, if you want to use them for your openvz containers, don't add them to eth0, use vzctl to add them to your containers directly.

You can't have IP B and C bind to two places at the same time, it's as simple as that.

Subject: Re: Host Node lost network upon install and restart
Posted by felixchang on Tue, 10 Jun 2014 02:04:56 GMT
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Thanks for point out and yes, I am aware of what you mean.

The original problem started when I have one physical IP and two virtual IP (bind to same physical NIC), after installing openvz and reboot, can no longer access network unless I stop the iptable service. Remember that at this point, I have not started any configuration or even create the VE.

Though I could eventually get the network to function (see previous email), I can not give myself a good explanation still.

Also, as you advise earlier, why should I remove the two virtual IP to get the network to work again ?

Just trying to satisfy myself the true cause. I google and found a few others had exact problem like me but did not see any good explanation yet.
