Subject: Newbie Question about network..
Posted by Lord Daedra on Thu, 04 Feb 2010 08:02:07 GMT
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Hello!

Host OS: Centos 5.4, VPS OS: Ubuntu 9.10.

I can't ping google.com on my VPS.

I used default Ubuntu template from this site, google nameserver 8.8.8.8 for VPS and ip 174.142.167.217.

vzctl create 217 --ostemplate ubuntu-9.10-x86 --ipadd 174.142.167.217 --hostname database.entropia.us --name database

vzctl set 217 --onboot yes --nameserver 8.8.8.8 --save

I need install public VEs (with their own IP addresses) so I'm look at http://wiki.openvz.org/Common_Networking_HOWTOs and use this command:
[host-node]# echo 1 > /proc/sys/net/ipv4/ip_forward

ifconfig on my host system:

Quote:[root@cl-t127-072cl ~]# ifconfig
eth0 Link encap:Ethernet HWaddr 00:30:48:B0:BA:D8
inet addr:67.205.67.10 Bcast:67.205.67.31 Mask:255.255.255.224
inet6 addr: fe80::230:48ff:feb0:bad8/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:339100 errors:0 dropped:0 overruns:0 frame:0
TX packets:178932 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:10
RX bytes:492718192 (469.8 MiB) TX bytes:12945821 (12.3 MiB)
Memory:d0100000-d0120000

eth0:1 Link encap:Ethernet HWaddr 00:30:48:B0:BA:D8
inet addr:174.142.167.217 Bcast:174.142.167.223 Mask:255.255.255.248
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
Memory:d0100000-d0120000

eth0:2 Link encap:Ethernet HWaddr 00:30:48:B0:BA:D8
inet addr:174.142.167.218 Bcast:174.142.167.223 Mask:255.255.255.248
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
Memory:d0100000-d0120000

eth0:3 Link encap:Ethernet HWaddr 00:30:48:B0:BA:D8
inet addr:174.142.167.219 Bcast:174.142.167.223 Mask:255.255.255.248
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

```
        Memory:d0100000-d0120000

eth0:4    Link encap:Ethernet  HWaddr 00:30:48:B0:BA:D8
        inet addr:174.142.167.220  Bcast:174.142.167.223  Mask:255.255.255.248
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        Memory:d0100000-d0120000

eth0:5    Link encap:Ethernet  HWaddr 00:30:48:B0:BA:D8
        inet addr:174.142.167.221  Bcast:174.142.167.223  Mask:255.255.255.248
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        Memory:d0100000-d0120000

eth0:6    Link encap:Ethernet  HWaddr 00:30:48:B0:BA:D8
        inet addr:174.142.167.222  Bcast:174.142.167.223  Mask:255.255.255.248
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        Memory:d0100000-d0120000

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:6 errors:0 dropped:0 overruns:0 frame:0
        TX packets:6 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:504 (504.0 b)  TX bytes:504 (504.0 b)

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:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
```

next i start and enter to my VPS and see ifconfig command blank result..

Info from datacenter:

Primary IP address : 67.205.67.10
Primary IP mask : 255.255.255.224
Gateway : 67.205.67.1

Usable secondary addresses: 174.142.167.217-222
Mask : 255.255.255.248

So also I replaced all 255.255.255.255 in /etc/vz/dists/scripts/debian-add_ip.sh to 255.255.255.248 in debian add ip script...

P.S.
[root@cl-t127-072cl ~]# ip rule list
0: from all lookup 255
32766: from all lookup main
32767: from all lookup default

[root@cl-t127-072cl ~]# 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

Please help me, where is my error?

Subject: Re: Newbie Question about network..
Posted by Paparaciz on Thu, 04 Feb 2010 09:33:55 GMT
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I think you should also define gw for yours 174.142.167.xxx range

as I understand you configured to use veth, so for each VE you have to add gw

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Subject: Re: Newbie Question about network..
Posted by Lord Daedra on Thu, 04 Feb 2010 13:33:04 GMT
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I dont know what is better veth or venet.. what is more easy to install?

Ok, venet..

1. I need run

a) [host-node]# iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE

or

b) [host-node]# iptables -t nat -A POSTROUTING -o eth0:1 -j MASQUERADE
[host-node]# iptables -t nat -A POSTROUTING -o eth0:2 -j MASQUERADE
[host-node]# iptables -t nat -A POSTROUTING -o eth0:3 -j MASQUERADE
[host-node]# iptables -t nat -A POSTROUTING -o eth0:4 -j MASQUERADE
[host-node]# iptables -t nat -A POSTROUTING -o eth0:5 -j MASQUERADE
[host-node]# iptables -t nat -A POSTROUTING -o eth0:6 -j MASQUERADE
(for every IP)
?

I tried a) and reboot after - but it doesnt help for me

(Its from guide http://wiki.openvz.org/Common_Networking_HOWTOs)

2. Here http://forum.openvz.org/index.php?t=msg&&th=7188&amp ;amp ;amp ;goto=34847#msg_34847 I find this
route add default gw 192.168.1.1 dev eth0

I tried run this command in VPS but get error

root@database:/# route add default gw 67.205.67.1 dev eth0
SIOCADDRT: No such device
root@database:/# ifconfig
root@database:/#

Yes, I see what no devices but why they did not installed when I used "set 217 --ipadd 174.142.167.217 --save" and how to install them?
ifconfig return blank result but I dont know how to fix this..

root@database:/# cat /etc/network/interfaces
This configuration file is auto-generated.

```
# WARNING: Do not edit this file, otherwise your changes will be lost.
# Please edit template /etc/network/interfaces.template instead.


auto lo
iface lo inet loopback
 address 127.0.0.1
 netmask 255.0.0.0
 broadcast 127.255.255.255
 up ip route replace 127.0.0.0/8 dev lo


# Auto generated interfaces
auto lo
iface lo inet loopback

auto venet0
iface venet0 inet static
 address 127.0.0.1
 netmask 255.255.255.248
 broadcast 67.205.67.1
 up route add -net 192.0.2.1 netmask 255.255.255.248 dev venet0
 up route add default gw 192.0.2.1
auto venet0:0
iface venet0:0 inet static
 address 174.142.167.217
 netmask 255.255.255.248
 broadcast 67.205.67.1
```

May be I need change smth in /etc/network/interfaces.template ?

Please tell me any easy way how to setup Internet connecton for my VPSes

P.S. On node:

```
[root@cl-t127-072cl ~]# route -n
Kernel IP routing table
Destination     Gateway         Genmask         Flags Metric Ref    Use Iface
174.142.167.219 0.0.0.0         255.255.255.255 UH    0      0        0 venet0
174.142.167.218 0.0.0.0         255.255.255.255 UH    0      0        0 venet0
174.142.167.217 0.0.0.0         255.255.255.255 UH    0      0        0 venet0
174.142.167.216 0.0.0.0         255.255.255.248 U     0      0        0 eth0
67.205.67.0     0.0.0.0         255.255.255.224 U     0      0        0 eth0
169.254.0.0     0.0.0.0         255.255.0.0     U     0      0        0 eth0
0.0.0.0         67.205.67.1     0.0.0.0         UG    0      0        0 eth0
```

(3 VPSes)

Subject: Re: Newbie Question about network..
Posted by Paparaciz on Thu, 04 Feb 2010 14:04:54 GMT
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you wroted that:
Usable secondary addresses: 174.142.167.217-222
Mask : 255.255.255.248

who gave you this ip addresses?
they are not public, they are private ip addresses
http://en.wikipedia.org/wiki/Private_network#Private_IPv4_ad dress_spaces

as i see you have only one public ip address

so if you want to have internet inside VE do following config:
remove all the eth aliases (eth0:0 - eth0:x), leave only eth0

add private ip address to VE (for example 174.142.167.217)
then do

echo 1 > /proc/sys/net/ipv4/ip_forward
iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE

that's all
if you want to have VE with public ip addresses ask them from your provider and assign them to VE.

if you want assign services for your VE and you have only one public ip just forward port to you VE in HN.

further reading:
http://wiki.openvz.org/Using_NAT_for_container_with_private_ IPs
http://wiki.openvz.org/Common_Networking_HOWTOs
http://wiki.openvz.org/Containers/Networking

and of course read the
http://download.openvz.org/doc/OpenVZ-Users-Guide.pdf

Subject: Re: Newbie Question about network..
Posted by Lord Daedra on Thu, 04 Feb 2010 15:35:20 GMT
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I got them in my datacenter (iWeb)

They are all public..

http://ws.arin.net/whois/?queryinput=174.142.167.217

Subject: Re: Newbie Question about network..
Posted by Paparaciz on Thu, 04 Feb 2010 17:30:12 GMT
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yes, sorry.
but that doesn't change much...
as I see you should follow this guide
http://wiki.openvz.org/VEs_and_HNs_in_different_subnets

but maybe you can try another way
do as i said in previuos message and add to your /etc/sysctl.conf
net.ipv4.conf.eth0.proxy_arp = 1
and then
sysctl -p
to apply changes
then you should get to the internet from VE

Subject: Re: Newbie Question about network..
Posted by Lord Daedra on Fri, 05 Feb 2010 07:18:44 GMT
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> remove all the eth aliases (eth0:0 - eth0:x), leave only eth0

Thanks, its solve my problem. (I used commands from this page
http://www.cyberciti.biz/faq/linux-command-to-remove-virtual -interfaces-or-network-aliases/)

Yesterday I tested on ubuntu cache tpl from this site, its bugged.. So network will not work and with correct settings.

I recommend use this tpl for ubuntu
http://blog.bodhizazen.net/linux/download-ubuntu-9-10-openvz -templates/comment-page-1/

P.S.
I used iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE command but I think , I need not it. How to cancel the effect of this command? (Do I need it?)

Subject: Re: Newbie Question about network..
Posted by teekien on Wed, 28 Apr 2010 12:30:57 GMT
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This is exactly what I had in mind too!