Subject: Networking with OpenVz on Debian
Posted by ceduardo on Thu, 09 Jul 2009 23:22:35 GMT
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Hi every body, Tank you for your help (I am sorry but my english is very bad.)

Well, I have OpenVz mount at Debian lenny this work very good but now I made a change in my Internet configuration and my CT do not have internet access.

I have this on my OpenVzSERVER:

```
eth0      Link encap:Ethernet  HWaddr 00:0b:6a:94:54:88
          inet addr:192.168.2.15  Bcast:192.168.2.255  Mask:255.255.255.0
          inet6 addr: fe80::20b:6aff:fe94:5488/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:2214523 errors:0 dropped:0 overruns:0 frame:0
          TX packets:2034759 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:1189111524 (1.1 GiB)  TX bytes:998419042 (952.1 MiB)
          Interrupt:19 Base address:0xd400

eth1      Link encap:Ethernet  HWaddr 00:21:91:90:8e:7d
          inet addr:192.168.150.2  Bcast:192.168.150.7  Mask:255.255.255.248
          UP BROADCAST MULTICAST  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:1000
          RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)
          Interrupt:17 Base address:0xd000

eth2      Link encap:Ethernet  HWaddr 00:08:54:27:1d:b8
          inet addr:190.145.2.YYY  Bcast:190.145.2.239  Mask:255.255.255.248
          inet6 addr: fe80::208:54ff:fe27:1db8/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:5053 errors:0 dropped:0 overruns:0 frame:0
          TX packets:34116 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:1046571 (1022.0 KiB)  TX bytes:9614680 (9.1 MiB)
          Interrupt:18 Base address:0xcc00

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:42897 errors:0 dropped:0 overruns:0 frame:0
          TX packets:42897 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:4394719 (4.1 MiB)  TX bytes:4394719 (4.1 MiB)
```

```
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:43510 errors:0 dropped:0 overruns:0 frame:0
          TX packets:38310 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:12827547 (12.2 MiB)  TX bytes:7445673 (7.1 MiB)

veth70.0  Link encap:Ethernet  HWaddr 00:18:51:39:c7:e7
          inet6 addr: fe80::218:51ff:fe39:c7e7/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:26 errors:0 dropped:0 overruns:0 frame:0
          TX packets:18 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:1750 (1.7 KiB)  TX bytes:1312 (1.2 KiB)
```

I have on my CT Id 70 :

```
eth0      Link encap:Ethernet  HWaddr 00:18:51:84:DE:57
          inet addr:192.168.2.70  Bcast:192.168.2.255  Mask:255.255.255.0
          inet6 addr: fe80::218:51ff:fe84:de57/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:14 errors:0 dropped:0 overruns:0 frame:0
          TX packets:21 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:1008 (1008.0 b)  TX bytes:1448 (1.4 KiB)

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:1077 errors:0 dropped:0 overruns:0 frame:0
          TX packets:1077 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:83161 (81.2 KiB)  TX bytes:83161 (81.2 KiB)

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:70 errors:0 dropped:0 overruns:0 frame:0
          TX packets:687 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:37730 (36.8 KiB)  TX bytes:316514 (309.0 KiB)
```

Id do this on my CT for network configuration:
[On OpenVzSERVER]

```
vzctl set 70 --ipdel 192.168.2.70
vzctl set 70 --netif_add eth0 --save
```

ifconfig -a

ifconfig veth70.0 0
echo 1 > /proc/sys/net/ipv4/conf/veth70.0/forwarding
echo 1 > /proc/sys/net/ipv4/conf/veth70.0/proxy_arp
echo 1 > /proc/sys/net/ipv4/conf/eth0/forwarding
echo 1 > /proc/sys/net/ipv4/conf/eth0/proxy_arp

[On CT 70]
ifconfig eth0 0
ip addr add 192.168.2.70 dev eth0
ifconfig eth0 192.168.2.70 netmask 255.255.255.0 up
ip route del default
ip route add default dev eth0

[On OpenVzSERVER]
ip route add 192.168.2.70 dev veth70.0

The CT can do ping to the network 192.168.2.0 but do not have internet access

Note: On my OpenVz SERVER do this iptables´s script :

#!/bin/sh
SCRIPT de IPTABLES - ejemplo del manual de iptables
Ejemplo de script para firewall entre red-local e internet
##
Pello Xabier Altadill Izura
www.pello.info - pello@pello.info

echo -n Aplicando Reglas de Firewall...

FLUSH de reglas
iptables -F
iptables -X
iptables -Z
iptables -t nat -F

Establecemos politica por defecto
iptables -P INPUT ACCEPT
iptables -P OUTPUT ACCEPT
iptables -P FORWARD ACCEPT
iptables -t nat -P PREROUTING ACCEPT
iptables -t nat -P POSTROUTING ACCEPT

Empezamos a filtrar

Nota: eth0 es el interfaz conectado al router y eth1 a la LAN
El localhost se deja (por ejemplo conexiones locales a mysql)

/sbin/iptables -A INPUT -i lo -j ACCEPT

Al firewall tenemos acceso desde la red local
iptables -A INPUT -s 192.168.2.0/24 -i eth0 -j ACCEPT

Ahora hacemos enmascaramiento de la red local
y activamos el BIT DE FORWARDING (imprescindible!!!!!)

iptables -t nat -A POSTROUTING -s 192.168.0.0/24 -o eth2 -j MASQUERADE

Con esto permitimos hacer forward de paquetes en el firewall, o sea
que otras mÃ¡inas puedan salir a traves del firewall.

echo 1 > /proc/sys/net/ipv4/ip_forward
echo " OK . Verifique que lo que se aplica con: iptables -L -n"

Thanks again.