Subject: communicating between virtual machines
Posted by arulP on Wed, 11 Mar 2009 11:18:52 GMT
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how to communicate between virtual machines within a same physical machine?I tried ssh ,but its not working..can any one suggest a way?

Subject: Re: communicating between virtual machines
Posted by maratrus on Wed, 11 Mar 2009 16:10:15 GMT
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Hello,

could you describe your problem in more detail?
http://forum.openvz.org/index.php?t=tree&goto=27545& #msg_27545

Are you able to reach one VE from another via ping?
Is sshd is running?

Subject: Re: communicating between virtual machines
Posted by arulP on Thu, 12 Mar 2009 04:40:15 GMT
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I cannot ping from one VE to the other and the sshd service is running in both the VEs.Do i need another ethernet card for communicating between two VEs?

here are the details:
[root@yahoo2 ~]# ip rule list ----------routing rules
0: from all lookup local
32766: from all lookup main
32767: from all lookup default

[root@yahoo2 ~]# ip route list table all
192.168.4.171 dev venet0 scope link
192.168.4.170 dev venet0 scope link
192.168.4.0/24 dev eth0 proto kernel scope link src 192.168.4.102
192.168.4.0/24 dev venet0 proto kernel scope link src 192.168.4.173
169.254.0.0/16 dev venet0 scope link
default via 192.168.4.1 dev eth0
local 192.168.4.173 dev venet0 table local proto kernel scope host src 192.168.4.173
broadcast 192.168.4.255 dev eth0 table local proto kernel scope link src 192.168.4.102
broadcast 192.168.4.255 dev venet0 table local proto kernel scope link src 192.168.4.173
broadcast 127.255.255.255 dev lo table local proto kernel scope link src 127.0.0.1

broadcast 192.168.4.0 dev eth0 table local proto kernel scope link src 192.168.4.102
broadcast 192.168.4.0 dev venet0 table local proto kernel scope link src 192.168.4.173
local 192.168.4.102 dev eth0 table local proto kernel scope host src 192.168.4.102
broadcast 127.0.0.0 dev lo table local proto kernel scope link src 127.0.0.1
local 127.0.0.1 dev lo table local proto kernel scope host src 127.0.0.1
local 127.0.0.0/8 dev lo table local proto kernel scope host src 127.0.0.1
unreachable ::/96 dev lo metric 1024 expires 21333833sec error -101 mtu 16436 advmss 16376 hoplimit 4294967295
unreachable ::ffff:0.0.0.0/96 dev lo metric 1024 expires 21333833sec error -101 mtu 16436 advmss 16376 hoplimit 4294967295
unreachable 2002:a00::/24 dev lo metric 1024 expires 21333833sec error -101 mtu 16436 advmss 16376 hoplimit 4294967295
unreachable 2002:7f00::/24 dev lo metric 1024 expires 21333833sec error -101 mtu 16436 advmss 16376 hoplimit 4294967295
unreachable 2002:a9fe::/32 dev lo metric 1024 expires 21333833sec error -101 mtu 16436 advmss 16376 hoplimit 4294967295
unreachable 2002:ac10::/28 dev lo metric 1024 expires 21333833sec error -101 mtu 16436 advmss 16376 hoplimit 4294967295
unreachable 2002:c0a8::/32 dev lo metric 1024 expires 21333833sec error -101 mtu 16436 advmss 16376 hoplimit 4294967295
unreachable 2002:e000::/19 dev lo metric 1024 expires 21333833sec error -101 mtu 16436 advmss 16376 hoplimit 4294967295
unreachable 3ffe:ffff::/32 dev lo metric 1024 expires 21333833sec error -101 mtu 16436 advmss 16376 hoplimit 4294967295
fe80::/64 dev eth0 metric 256 expires 21333836sec mtu 1500 advmss 1440 hoplimit 4294967295
fe80::/64 dev veth170.0 metric 256 expires 21333929sec mtu 1500 advmss 1440 hoplimit 4294967295
fe80::/64 dev veth171.0 metric 256 expires 21334117sec mtu 1500 advmss 1440 hoplimit 4294967295
unreachable default dev lo table unspec proto none metric -1 error -101 hoplimit 255
local ::1 via :: dev lo table local proto none metric 0 mtu 16436 advmss 16376 hoplimit 4294967295
local fe80::218:51ff:fe38:6a4a via :: dev lo table local proto none metric 0 mtu 16436 advmss 16376 hoplimit 4294967295
local fe80::218:51ff:fe56:c259 via :: dev lo table local proto none metric 0 mtu 16436 advmss 16376 hoplimit 4294967295
local fe80::223:54ff:fe17:a95e via :: dev lo table local proto none metric 0 mtu 16436 advmss 16376 hoplimit 4294967295
ff00::/8 dev eth0 table local metric 256 expires 21333836sec mtu 1500 advmss 1440 hoplimit 4294967295
ff00::/8 dev veth170.0 table local metric 256 expires 21333929sec mtu 1500 advmss 1440 hoplimit 4294967295
ff00::/8 dev veth171.0 table local metric 256 expires 21334117sec mtu 1500 advmss 1440 hoplimit 4294967295
unreachable default dev lo table unspec proto none metric -1 error -101 hoplimit 255

------in virtual machine
[root@op /]# ip rule list
0:	from all lookup local
32766:	from all lookup main
32767:	from all lookup default

----------netfilter configuration

[root@yahoo2 ~]# 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

----------packet paths
[root@yahoo2 ~]# tcpdump ----------in HN
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on eth0, link-type EN10MB (Ethernet), capture size 96 bytes

09:58:13.112700 IP 192.168.4.6.netbios-ns > 192.168.4.255.netbios-ns: NBT UDP PACKET(137): QUERY; REQUEST; BROADCAST
09:58:13.113430 IP 192.168.4.102.34670 > 192.168.4.1.domain: 1328+ PTR? 255.4.168.192.in-addr.arpa. (44)
09:58:13.121168 IP 192.168.4.1.domain > 192.168.4.102.34670: 1328 NXDomain* 0/1/0 (91)
09:58:13.121269 IP 192.168.4.102.54181 > 192.168.4.1.domain: 31018+ PTR? 6.4.168.192.in-addr.arpa. (42)
09:58:13.121577 IP 192.168.4.1.domain > 192.168.4.102.54181: 31018 NXDomain* 0/1/0 (89)
09:58:13.121680 IP 192.168.4.102.59213 > 192.168.4.1.domain: 56387+ PTR? 1.4.168.192.in-addr.arpa. (42)
09:58:13.121987 IP 192.168.4.1.domain > 192.168.4.102.59213: 56387 NXDomain* 0/1/0 (89)
09:58:13.122038 IP 192.168.4.102.58371 > 192.168.4.1.domain: 27962+ PTR? 102.4.168.192.in-addr.arpa. (44)
09:58:13.122396 IP 192.168.4.1.domain > 192.168.4.102.58371: 27962 NXDomain* 0/1/0 (91)
09:58:13.219456 IP 192.168.4.7.netbios-ns > 192.168.4.255.netbios-ns: NBT UDP PACKET(137): QUERY; REQUEST; BROADCAST
09:58:13.219595 IP 192.168.4.102.35445 > 192.168.4.1.domain: 58836+ PTR? 7.4.168.192.in-addr.arpa. (42)
09:58:13.219879 IP 192.168.4.1.domain > 192.168.4.102.35445: 58836 NXDomain* 0/1/0 (89)
09:58:13.227269 arp who-has 192.168.3.200 tell 192.168.3.84
09:58:13.227330 IP 192.168.4.102.49192 > 192.168.4.1.domain: 24555+ PTR? 200.3.168.192.in-addr.arpa. (44)
09:58:13.227678 IP 192.168.4.1.domain > 192.168.4.102.49192: 24555 NXDomain* 0/1/0 (91)
09:58:13.227786 IP 192.168.4.102.37992 > 192.168.4.1.domain: 47504+ PTR? 84.3.168.192.in-addr.arpa. (43)
09:58:13.228088 IP 192.168.4.1.domain > 192.168.4.102.37992: 47504 NXDomain* 0/1/0 (90)
09:58:13.286779 arp who-has 192.168.3.34 tell 192.168.3.31
09:58:13.286875 IP 192.168.4.102.44656 > 192.168.4.1.domain: 45284+ PTR? 34.3.168.192.in-addr.arpa. (43)
09:58:13.287188 IP 192.168.4.1.domain > 192.168.4.102.44656: 45284 NXDomain* 0/1/0 (90)
09:58:13.287245 IP 192.168.4.102.60931 > 192.168.4.1.domain: 15132+ PTR? 31.3.168.192.in-addr.arpa. (43)
09:58:13.287597 IP 192.168.4.1.domain > 192.168.4.102.60931: 15132 NXDomain* 0/1/0 (90)
09:58:13.312632 arp who-has 192.168.3.138 tell 192.168.3.105
09:58:13.312711 IP 192.168.4.102.39256 > 192.168.4.1.domain: 44893+ PTR? 138.3.168.192.in-addr.arpa. (44)
09:58:13.313041 IP 192.168.4.1.domain > 192.168.4.102.39256: 44893 NXDomain* 0/1/0 (91)
09:58:13.313097 IP 192.168.4.102.38241 > 192.168.4.1.domain: 755+ PTR? 105.3.168.192.in-addr.arpa. (44)
09:58:13.313450 IP 192.168.4.1.domain > 192.168.4.102.38241: 755 NXDomain* 0/1/0 (91)
09:58:13.400946 arp who-has 192.168.3.76 tell 192.168.3.11
09:58:13.401028 IP 192.168.4.102.52068 > 192.168.4.1.domain: 3891+ PTR? 76.3.168.192.in-addr.arpa. (43)
09:58:13.401354 IP 192.168.4.1.domain > 192.168.4.102.52068: 3891 NXDomain* 0/1/0 (90)
09:58:13.401410 IP 192.168.4.102.46938 > 192.168.4.1.domain: 52643+ PTR? 11.3.168.192.in-addr.arpa. (43)
09:58:13.401764 IP 192.168.4.1.domain > 192.168.4.102.46938: 52643 NXDomain* 0/1/0 (90)
09:58:13.419504 IP 192.168.4.12.netbios-ns > 192.168.4.255.netbios-ns: NBT UDP

PACKET(137): QUERY; REQUEST; BROADCAST
09:58:13.419589 IP 192.168.4.102.57456 > 192.168.4.1.domain: 54390+ PTR?
12.4.168.192.in-addr.arpa. (43)
09:58:13.419913 IP 192.168.4.1.domain > 192.168.4.102.57456: 54390 NXDomain* 0/1/0 (90)
09:58:13.472443 arp who-has 192.168.3.169 tell 192.168.3.99
09:58:13.472518 IP 192.168.4.102.56024 > 192.168.4.1.domain: 53334+ PTR?
169.3.168.192.in-addr.arpa. (44)
09:58:13.472852 IP 192.168.4.1.domain > 192.168.4.102.56024: 53334 NXDomain* 0/1/0 (91)
09:58:13.472907 IP 192.168.4.102.51156 > 192.168.4.1.domain: 54159+ PTR?
99.3.168.192.in-addr.arpa. (43)
09:58:13.473262 IP 192.168.4.1.domain > 192.168.4.102.51156: 54159 NXDomain* 0/1/0 (90)
09:58:13.560280 IP 192.168.4.15.netbios-ns > 192.168.4.255.netbios-ns: NBT UDP
PACKET(137): QUERY; REQUEST; BROADCAST
09:58:13.560374 IP 192.168.4.102.50605 > 192.168.4.1.domain: 15489+ PTR?
15.4.168.192.in-addr.arpa. (43)
09:58:13.560690 IP 192.168.4.1.domain > 192.168.4.102.50605: 15489 NXDomain* 0/1/0 (90)
09:58:13.613198 arp who-has 192.168.3.47 tell 192.168.3.64
09:58:13.613277 IP 192.168.4.102.42911 > 192.168.4.1.domain: 50320+ PTR?
47.3.168.192.in-addr.arpa. (43)
09:58:13.613608 IP 192.168.4.1.domain > 192.168.4.102.42911: 50320 NXDomain* 0/1/0 (90)
09:58:13.613666 IP 192.168.4.102.60883 > 192.168.4.1.domain: 22530+ PTR?
64.3.168.192.in-addr.arpa. (43)
09:58:13.614016 IP 192.168.4.1.domain > 192.168.4.102.60883: 22530 NXDomain* 0/1/0 (90)
09:58:13.649340 arp who-has 192.168.3.73 tell 192.168.3.70
09:58:13.649412 IP 192.168.4.102.51462 > 192.168.4.1.domain: 29948+ PTR?
73.3.168.192.in-addr.arpa. (43)
09:58:13.649749 IP 192.168.4.1.domain > 192.168.4.102.51462: 29948 NXDomain* 0/1/0 (90)
09:58:13.649804 IP 192.168.4.102.50873 > 192.168.4.1.domain: 61543+ PTR?
70.3.168.192.in-addr.arpa. (43)
09:58:13.650159 IP 192.168.4.1.domain > 192.168.4.102.50873: 61543 NXDomain* 0/1/0 (90)
09:58:13.656628 arp who-has 192.168.3.69 tell 192.168.3.56
09:58:13.656674 IP 192.168.4.102.48731 > 192.168.4.1.domain: 52582+ PTR?
69.3.168.192.in-addr.arpa. (43)
09:58:13.657037 IP 192.168.4.1.domain > 192.168.4.102.48731: 52582 NXDomain* 0/1/0 (90)
09:58:13.657087 IP 192.168.4.102.55954 > 192.168.4.1.domain: 7258+ PTR?
56.3.168.192.in-addr.arpa. (43)
09:58:13.657447 IP 192.168.4.1.domain > 192.168.4.102.55954: 7258 NXDomain* 0/1/0 (90)
09:58:13.671718 arp who-has 192.168.3.36 tell 192.168.3.74
09:58:13.671783 IP 192.168.4.102.54980 > 192.168.4.1.domain: 45357+ PTR?
36.3.168.192.in-addr.arpa. (43)
09:58:13.672127 IP 192.168.4.1.domain > 192.168.4.102.54980: 45357 NXDomain* 0/1/0 (90)
09:58:13.672181 IP 192.168.4.102.57703 > 192.168.4.1.domain: 22936+ PTR?
74.3.168.192.in-addr.arpa. (43)
09:58:13.672537 IP 192.168.4.1.domain > 192.168.4.102.57703: 22936 NXDomain* 0/1/0 (90)
09:58:13.689372 arp who-has 192.168.3.55 tell 192.168.3.12
09:58:13.689456 IP 192.168.4.102.53514 > 192.168.4.1.domain: 11353+ PTR?
55.3.168.192.in-addr.arpa. (43)
09:58:13.689780 IP 192.168.4.1.domain > 192.168.4.102.53514: 11353 NXDomain* 0/1/0 (90)

09:58:13.689836 IP 192.168.4.102.48080 > 192.168.4.1.domain: 50492+ PTR?
12.3.168.192.in-addr.arpa. (43)
09:58:13.690189 IP 192.168.4.1.domain > 192.168.4.102.48080: 50492 NXDomain* 0/1/0 (90)
09:58:13.702820 arp who-has 192.168.3.57 tell 192.168.3.65
09:58:13.702867 IP 192.168.4.102.48526 > 192.168.4.1.domain: 34266+ PTR?
57.3.168.192.in-addr.arpa. (43)
09:58:13.703229 IP 192.168.4.1.domain > 192.168.4.102.48526: 34266 NXDomain* 0/1/0 (90)
09:58:13.703278 IP 192.168.4.102.52185 > 192.168.4.1.domain: 33895+ PTR?
65.3.168.192.in-addr.arpa. (43)
09:58:13.703639 IP 192.168.4.1.domain > 192.168.4.102.52185: 33895 NXDomain* 0/1/0 (90)
09:58:13.726165 arp who-has 192.168.3.224 tell 192.168.3.80
09:58:13.726237 IP 192.168.4.102.55291 > 192.168.4.1.domain: 22559+ PTR?
224.3.168.192.in-addr.arpa. (44)
09:58:13.727120 IP 192.168.4.1.domain > 192.168.4.102.55291: 22559 NXDomain* 0/1/0 (91)
09:58:13.727175 IP 192.168.4.102.40530 > 192.168.4.1.domain: 32101+ PTR?
80.3.168.192.in-addr.arpa. (43)
09:58:13.727530 IP 192.168.4.1.domain > 192.168.4.102.40530: 32101 NXDomain* 0/1/0 (90)
09:58:13.766231 arp who-has 192.168.3.46 tell 192.168.3.39
09:58:13.766299 IP 192.168.4.102.39587 > 192.168.4.1.domain: 23770+ PTR?
46.3.168.192.in-addr.arpa. (43)
09:58:13.766639 IP 192.168.4.1.domain > 192.168.4.102.39587: 23770 NXDomain* 0/1/0 (90)
09:58:13.766694 IP 192.168.4.102.53898 > 192.168.4.1.domain: 51406+ PTR?
39.3.168.192.in-addr.arpa. (43)
09:58:13.767049 IP 192.168.4.1.domain > 192.168.4.102.53898: 51406 NXDomain* 0/1/0 (90)
09:58:13.781543 STP 802.1w, Rapid STP, Flags [Learn, Forward], bridge-id
8001.00:18:19:64:03:00.8001, length 43
09:58:13.886951 arp who-has 192.168.3.69 tell 192.168.3.43
09:58:13.887046 IP 192.168.4.102.43116 > 192.168.4.1.domain: 27277+ PTR?
43.3.168.192.in-addr.arpa. (43)
09:58:13.887397 IP 192.168.4.1.domain > 192.168.4.102.43116: 27277 NXDomain* 0/1/0 (90)
09:58:13.892826 arp who-has 192.168.3.220 tell 192.168.3.97
09:58:13.892873 IP 192.168.4.102.55656 > 192.168.4.1.domain: 11546+ PTR?
220.3.168.192.in-addr.arpa. (44)
09:58:13.893257 IP 192.168.4.1.domain > 192.168.4.102.55656: 11546 NXDomain* 0/1/0 (91)
09:58:13.893307 IP 192.168.4.102.48442 > 192.168.4.1.domain: 65400+ PTR?
97.3.168.192.in-addr.arpa. (43)
09:58:13.893667 IP 192.168.4.1.domain > 192.168.4.102.48442: 65400 NXDomain* 0/1/0 (90)
09:58:13.929425 IP 192.168.4.6.netbios-ns > 192.168.4.255.netbios-ns: NBT UDP
PACKET(137): QUERY; REQUEST; BROADCAST
09:58:13.969446 IP 192.168.4.7.netbios-ns > 192.168.4.255.netbios-ns: NBT UDP
PACKET(137): QUERY; REQUEST; BROADCAST

[root@op /]# tcpdump ----------in virtual machine
tcpdump: WARNING: arptype 65535 not supported by libpcap - falling back to cooked socket
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on venet0, link-type LINUX_SLL (Linux cooked), capture size 96 bytes

0 packets captured

0 packets received by filter
0 packets dropped by kernel

Subject: Re: communicating between virtual machines
Posted by maratrus on Thu, 12 Mar 2009 06:59:20 GMT
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Quote:
Do i need another ethernet card for communicating between two VEs?

No, you don't need additional network cards!

Please, check sysctl parameters
http://wiki.openvz.org/Quick_installation#sysctl

Could you also show "arp -n" from HN?

Subject: Re: communicating between virtual machines
Posted by arulP on Thu, 12 Mar 2009 11:32:08 GMT
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Quote:Could you also show "arp -n" from HN?

[root@yahoo4 ~]# arp -n
Address HWtype HWaddress Flags Mask Iface
192.168.4.1 ether 00:02:44:18:6C:78 C eth0
192.168.4.153 * * MP eth0
192.168.4.152 * * MP eth0

last two rows are for the two VEs.

sysctl.conf----------in HN

# Controls IP packet forwarding
net.ipv4.ip_forward = 1

# Controls source route verification
net.ipv4.conf.default.rp_filter = 1
net.ipv4.conf.default.proxy_arp = 0
# Do not accept source routing

net.ipv4.conf.default.accept_source_route = 0

# Controls the System Request debugging functionality of the kernel
kernel.sysrq = 2

# Controls whether core dumps will append the PID to the core filename.
# Useful for debugging multi-threaded applications.
kernel.core_uses_pid = 1

# Controls the use of TCP syncookies
net.ipv4.tcp_syncookies = 1

#newly added
net.ipv4.conf.default.send_redirects = 1
net.ipv4.conf.all.send_redirects = 0

Subject: Re: communicating between virtual machines
Posted by maratrus on Thu, 12 Mar 2009 11:40:36 GMT
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How did you configure venet interface inside VEs?

Quote:
192.168.4.0/24 dev venet0 proto kernel scope link src 192.168.4.173
169.254.0.0/16 dev venet0 scope link

This is wrong.

Please, use vzctl set $VEID --ipadd $IP [--save] command

Subject: Re: communicating between virtual machines
Posted by arulP on Thu, 12 Mar 2009 11:46:58 GMT
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i used this command only------>vzctl set VEid --ipadd <ipaddr> --save

---

Subject: Re: communicating between virtual machines
Posted by maratrus on Thu, 12 Mar 2009 11:52:26 GMT
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And why does HN contain these strings?
Quote:

192.168.4.0/24 dev venet0 proto kernel scope link src 192.168.4.173
169.254.0.0/16 dev venet0 scope link

vzctl shouldn't add them!

Subject: Re: communicating between virtual machines
Posted by arulP on Thu, 12 Mar 2009 11:55:25 GMT
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192.168.4.0/24 dev venet0 proto kernel scope link src 192.168.4.173
169.254.0.0/16 dev venet0 scope link

why is this wrong??can you please be more clear?

Subject: Re: communicating between virtual machines
Posted by arulP on Thu, 12 Mar 2009 12:02:13 GMT
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in order to communicate between two vm i looked at that site and did the same..

http://wiki.openvz.org/VEs_and_HNs_in_different_subnets

can u refer this for me..

So u will get to know what i did

Subject: Re: communicating between virtual machines
Posted by maratrus on Thu, 12 Mar 2009 12:05:06 GMT
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Quote:
can you please be more clear?

Yes, of course.
You don't need to create these records on the HN.
The only command you have issue is: "vzctl set $VEID --ipadd $IP --save". In this case vzctl adds

additional route on the HN - something like "192.168.4.171 dev venet0 scope link". Thats all.
http://wiki.openvz.org/Venet

Subject: Re: communicating between virtual machines
Posted by arulP on Thu, 12 Mar 2009 12:11:33 GMT
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okay leave it....

Assume i have two virtual machines namely
151 and 152
i just created and added hostname and ip (as you said) and set password for root...

now i am able to login into the virtualmachine using
ssh 192.168.4.151
after supplying password i went inside vm

now i want to go to second virtualmachine(152) from 151
i.e. ssh 192.168.4.152
no route to the host : port 22 connection refused..
This is the output i am getting

i want to ping the other virtual machine from my present virtual machine

is there any way...

Subject: Re: communicating between virtual machines
Posted by maratrus on Thu, 12 Mar 2009 12:18:58 GMT
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Yes, the way exits.

(on the HN - as you said)
vzctl set 151 --ipadd 192.168.4.151 --save
vzctl set 152 --ipadd 192.168.4.152 --save

after that check "ip r l" output on the HN. It should contain
"192.168.4.151 dev venet0 scope link" and "192.168.4.152 dev venet0 scope link" records.
Then check "ip r l" inside each VE.

Subject: Re: communicating between virtual machines
Posted by arulP on Thu, 12 Mar 2009 12:24:33 GMT

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i got these as output

vzctl enter 152
entered into CT 152
[root@open1 /]# ip
192.0.2.0/24 dev venet0 scope host
169.254.0.0/16 dev venet0 scope link metric 1003
default via 192.0.2.1 dev venet0
[root@open1 /]# logout
exited from CT 152
[root@yahoo4 ~]# vzctl enter 153
entered into CT 153
[root@openvz2 /]# ip r l
192.0.2.0/24 dev venet0 scope host
169.254.0.0/16 dev venet0 scope link metric 1003
default via 192.0.2.1 dev venet0

Then?

Subject: Re: communicating between virtual machines
Posted by maratrus on Thu, 12 Mar 2009 12:37:48 GMT
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Then everything should work.

Show "ip a l" from the HN.

Try to ping one VE from another, at the same time:

inside both VEs and on the HN:

tcpdump -n -i venet0

Subject: Re: communicating between virtual machines
Posted by arulP on Thu, 12 Mar 2009 12:43:46 GMT
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[root@yahoo4 ~]# ip a l
2: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host

```
       valid_lft forever preferred_lft forever
4: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 00:23:54:17:a9:e5 brd ff:ff:ff:ff:ff:ff
    inet 192.168.4.104/24 brd 192.168.4.255 scope global eth0
    inet6 fe80::223:54ff:fe17:a9e5/64 scope link
       valid_lft forever preferred_lft forever
6: eth2: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 00:22:b0:52:ac:aa brd ff:ff:ff:ff:ff:ff
    inet 192.168.4.179/24 brd 192.168.4.255 scope global eth2
1: sit0: <NOARP> mtu 1480 qdisc noop
    link/sit 0.0.0.0 brd 0.0.0.0
8: pan0: <BROADCAST,MULTICAST> mtu 1500 qdisc noop
    link/ether 00:00:00:00:00:00 brd ff:ff:ff:ff:ff:ff
3: tunl0: <NOARP> mtu 1480 qdisc noop
    link/ipip 0.0.0.0 brd 0.0.0.0
5: venet0: <BROADCAST,POINTOPOINT,NOARP,UP,LOWER_UP> mtu 1500 qdisc noqueue
    link/void
7: veth151.0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue
    link/ether 00:0c:29:7a:29:04 brd ff:ff:ff:ff:ff:ff
    inet6 fe80::20c:29ff:fe7a:2904/64 scope link
       valid_lft forever preferred_lft forever
[root@yahoo4 ~]#
```

This is the output i am getting..
Is everything going right?

Subject: Re: communicating between virtual machines
Posted by arulP on Thu, 12 Mar 2009 12:46:42 GMT

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```
 tcpdump -n -i venet0
tcpdump: WARNING: arptype 65535 not supported by libpcap - falling back to cooked socket
tcpdump: WARNING: venet0: no IPv4 address assigned
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on venet0, link-type LINUX_SLL (Linux cooked), capture size 96 bytes
```

This is the output i'm getting in all three machines namely physical , vm1,vm2

Subject: Re: communicating between virtual machines
Posted by maratrus on Thu, 12 Mar 2009 12:50:24 GMT

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Yes, and also

Quote:
after that check "ip r l" output on the HN. It should contain
"192.168.4.151 dev venet0 scope link" and "192.168.4.152 dev venet0 scope link" records.

"arp -n" (on the HN) should also contain
192.168.4.151 * * MP eth0
192.168.4.152 * * MP eth0

Subject: Re: communicating between virtual machines
Posted by maratrus on Thu, 12 Mar 2009 12:53:17 GMT
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That's mean that nothing leaves your VE.

Show "ip a l", "ip r l" from VE151 and VE152.

Subject: Re: communicating between virtual machines
Posted by arulP on Mon, 16 Mar 2009 11:00:58 GMT
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VE 152
[root@open1 /]# ip a l
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue state UNKNOWN
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
3: venet0: <BROADCAST,POINTOPOINT,NOARP,UP,LOWER_UP> mtu 1500 qdisc noqueue
state UNKNOWN
    link/void
    inet 127.0.0.1/32 scope host venet0
    inet 192.168.4.152/32 brd 192.168.4.152 scope global venet0:0
5: eth0: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN
    link/ether 00:23:54:17:a9:e5 brd ff:ff:ff:ff:ff:ff

[root@open1 /]# ip r l
192.0.2.0/24 dev venet0 scope host
169.254.0.0/16 dev venet0 scope link metric 1003
default via 192.0.2.1 dev venet0

VE 153
[root@openvz2 /]# ip a l

1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue state UNKNOWN
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
3: venet0: <BROADCAST,POINTOPOINT,NOARP,UP,LOWER_UP> mtu 1500 qdisc noqueue state UNKNOWN
    link/void
    inet 127.0.0.1/32 scope host venet0
    inet 192.168.4.153/32 brd 192.168.4.153 scope global venet0:0

[root@openvz2 /]# ip r l
192.0.2.0/24 dev venet0 scope host
169.254.0.0/16 dev venet0 scope link metric 1003
default via 192.0.2.1 dev venet0

Subject: Re: communicating between virtual machines
Posted by maratrus on Mon, 16 Mar 2009 11:29:39 GMT
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Hello,

taking your last message into consideration looks like the tcpdump output you've shown is wrong.
I'm almost sure that you shouldn't have got an empty output.

Please, conduct the following experiment:

- suppose VE152 has ip address 192.168.4.152 and VE153 has ip address 192.168.4.153.
- please, ping VE153 from inside VE152.
-AT THE SAME TIME run "tcpdump -n -i venet0" command inside VE152, VE153 and on the HN.
- show "sysctl -a | grep forward" from the HN.

Subject: Re: communicating between virtual machines
Posted by arulP on Tue, 17 Mar 2009 08:36:52 GMT
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ok leave it.....

We are in a tight situation to finish this one for our project...
So can u please give instruction starting from creating steps, So that we can check where we

went wrong...

Our objective is to create two virtual machines and ping one system from another...

Subject: Re: communicating between virtual machines
Posted by arulP on Tue, 17 Mar 2009 08:50:40 GMT
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```
 ping open1
PING open1 (192.168.4.152) 56(84) bytes of data.
From yahoo4 (192.168.4.104) icmp_seq=1 Destination Host Prohibited
From yahoo4 (192.168.4.104): icmp_seq=1 Redirect Host(New nexthop: open1 (192.168.4.152))
From yahoo4 (192.168.4.104) icmp_seq=2 Destination Host Prohibited
From yahoo4 (192.168.4.104): icmp_seq=2 Redirect Host(New nexthop: open1 (192.168.4.152))
From yahoo4 (192.168.4.104) icmp_seq=3 Destination Host Prohibited
From yahoo4 (192.168.4.104): icmp_seq=3 Redirect Host(New nexthop: open1 (192.168.4.152))
From yahoo4 (192.168.4.104) icmp_seq=4 Destination Host Prohibited
From yahoo4 (192.168.4.104): icmp_seq=4 Redirect Host(New nexthop: open1 (192.168.4.152))
From yahoo4 (192.168.4.104) icmp_seq=5 Destination Host Prohibited
From yahoo4 (192.168.4.104): icmp_seq=5 Redirect Host(New nexthop: open1 (192.168.4.152))
From yahoo4 (192.168.4.104) icmp_seq=6 Destination Host Prohibited
From yahoo4 (192.168.4.104): icmp_seq=6 Redirect Host(New nexthop: open1 (192.168.4.152))
From yahoo4 (192.168.4.104) icmp_seq=7 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=8 Destination Host Prohibited
From yahoo4 (192.168.4.104): icmp_seq=8 Redirect Host(New nexthop: open1 (192.168.4.152))
From yahoo4 (192.168.4.104) icmp_seq=9 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=10 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=11 Destination Host Prohibited
From yahoo4 (192.168.4.104): icmp_seq=11 Redirect Host(New nexthop: open1 (192.168.4.152))
From yahoo4 (192.168.4.104) icmp_seq=12 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=13 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=14 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=15 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=16 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=17 Destination Host Prohibited
From yahoo4 (192.168.4.104): icmp_seq=17 Redirect Host(New nexthop: open1 (192.168.4.152))
From yahoo4 (192.168.4.104) icmp_seq=18 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=19 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=20 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=21 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=22 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=23 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=24 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=25 Destination Host Prohibited
```

From yahoo4 (192.168.4.104) icmp_seq=26 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=27 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=28 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=29 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=30 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=31 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=32 Destination Host Prohibited
From yahoo4 (192.168.4.104) icmp_seq=33 Destination Host Prohibited

---

Subject: Re: communicating between virtual machines
Posted by arulP on Tue, 17 Mar 2009 10:16:10 GMT
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Quote:i tried it in another machine but the result is same ..donno wat to do.pls help

[root@localhost ~]# sysctl -a|grep forward
net.ipv6.conf.eth0.forwarding = 0
net.ipv6.conf.default.forwarding = 0
net.ipv6.conf.all.forwarding = 0
net.ipv6.conf.lo.forwarding = 0
net.ipv4.conf.eth0.mc_forwarding = 0
net.ipv4.conf.eth0.forwarding = 1
net.ipv4.conf.venet0.mc_forwarding = 0
net.ipv4.conf.venet0.forwarding = 1
net.ipv4.conf.lo.mc_forwarding = 0
net.ipv4.conf.lo.forwarding = 1
net.ipv4.conf.default.mc_forwarding = 0
net.ipv4.conf.default.forwarding = 1
net.ipv4.conf.all.mc_forwarding = 0
net.ipv4.conf.all.forwarding = 1
net.ipv4.ip_forward = 1

[root@localhost ~]# vzctl enter 152

entered into CT 152
[root@openvz2 /]# ping 192.168.1.153
PING 192.168.1.153 (192.168.1.153) 56(84) bytes of data.
From 192.168.1.100 icmp_seq=1 Destination Host Prohibited
From 192.168.1.100: icmp_seq=1 Redirect Host(New nexthop: 192.168.1.153)
From 192.168.1.100 icmp_seq=2 Destination Host Prohibited
From 192.168.1.100: icmp_seq=2 Redirect Host(New nexthop: 192.168.1.153)
From 192.168.1.100 icmp_seq=3 Destination Host Prohibited
From 192.168.1.100: icmp_seq=3 Redirect Host(New nexthop: 192.168.1.153)
From 192.168.1.100 icmp_seq=4 Destination Host Prohibited
From 192.168.1.100: icmp_seq=4 Redirect Host(New nexthop: 192.168.1.153)
From 192.168.1.100 icmp_seq=5 Destination Host Prohibited
From 192.168.1.100: icmp_seq=5 Redirect Host(New nexthop: 192.168.1.153)
From 192.168.1.100 icmp_seq=6 Destination Host Prohibited
From 192.168.1.100: icmp_seq=6 Redirect Host(New nexthop: 192.168.1.153)
From 192.168.1.100 icmp_seq=7 Destination Host Prohibited
From 192.168.1.100 icmp_seq=8 Destination Host Prohibited
From 192.168.1.100: icmp_seq=8 Redirect Host(New nexthop: 192.168.1.153)
From 192.168.1.100 icmp_seq=9 Destination Host Prohibited
From 192.168.1.100: icmp_seq=9 Redirect Host(New nexthop: 192.168.1.153)
From 192.168.1.100 icmp_seq=10 Destination Host Prohibited
From 192.168.1.100: icmp_seq=10 Redirect Host(New nexthop: 192.168.1.153)
From 192.168.1.100 icmp_seq=11 Destination Host Prohibited
From 192.168.1.100: icmp_seq=11 Redirect Host(New nexthop: 192.168.1.153)
From 192.168.1.100 icmp_seq=12 Destination Host Prohibited
From 192.168.1.100: icmp_seq=12 Redirect Host(New nexthop: 192.168.1.153)
From 192.168.1.100 icmp_seq=13 Destination Host Prohibited
From 192.168.1.100: icmp_seq=13 Redirect Host(New nexthop: 192.168.1.153)
From 192.168.1.100 icmp_seq=14 Destination Host Prohibited
From 192.168.1.100 icmp_seq=15 Destination Host Prohibited
From 192.168.1.100: icmp_seq=15 Redirect Host(New nexthop: 192.168.1.153)
From 192.168.1.100 icmp_seq=16 Destination Host Prohibited
From 192.168.1.100 icmp_seq=17 Destination Host Prohibited
From 192.168.1.100 icmp_seq=18 Destination Host Prohibited
From 192.168.1.100: icmp_seq=18 Redirect Host(New nexthop: 192.168.1.153)
From 192.168.1.100 icmp_seq=19 Destination Host Prohibited
From 192.168.1.100 icmp_seq=20 Destination Host Prohibited
From 192.168.1.100 icmp_seq=21 Destination Host Prohibited
From 192.168.1.100 icmp_seq=22 Destination Host Prohibited
From 192.168.1.100 icmp_seq=23 Destination Host Prohibited
From 192.168.1.100 icmp_seq=24 Destination Host Prohibited
From 192.168.1.100: icmp_seq=24 Redirect Host(New nexthop: 192.168.1.153)
From 192.168.1.100 icmp_seq=25 Destination Host Prohibited
From 192.168.1.100 icmp_seq=26 Destination Host Prohibited
From 192.168.1.100 icmp_seq=27 Destination Host Prohibited
From 192.168.1.100 icmp_seq=28 Destination Host Prohibited
From 192.168.1.100 icmp_seq=29 Destination Host Prohibited
From 192.168.1.100 icmp_seq=30 Destination Host Prohibited

From 192.168.1.100 icmp_seq=31 Destination Host Prohibited

Subject: Re: communicating between virtual machines
Posted by maratrus on Wed, 18 Mar 2009 09:20:45 GMT
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This output makes me suppose that there exists firewall somewhere which is blocking up your packet.

Subject: Re: communicating between virtual machines
Posted by arulP on Wed, 18 Mar 2009 13:56:34 GMT
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yup...atlast problem solved ..i flushed all the iptable entries in HN..now its pinging..ssh works too..thanks for your support maratrus

Subject: Re: communicating between virtual machines
Posted by arulP on Wed, 18 Mar 2009 13:58:21 GMT
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[root@localhost ~]# vzctl enter 152
entered into CT 152
[root@openvz2 /]# ping 192.168.1.153
PING 192.168.1.153 (192.168.1.153) 56(84) bytes of data.
From 192.168.1.102: icmp_seq=1 Redirect Host(New nexthop: 192.168.1.153)
64 bytes from 192.168.1.153: icmp_seq=1 ttl=64 time=0.089 ms
From 192.168.1.102: icmp_seq=2 Redirect Host(New nexthop: 192.168.1.153)
64 bytes from 192.168.1.153: icmp_seq=2 ttl=64 time=0.094 ms
From 192.168.1.102: icmp_seq=3 Redirect Host(New nexthop: 192.168.1.153)
64 bytes from 192.168.1.153: icmp_seq=3 ttl=64 time=0.090 ms
From 192.168.1.102: icmp_seq=4 Redirect Host(New nexthop: 192.168.1.153)
64 bytes from 192.168.1.153: icmp_seq=4 ttl=64 time=0.088 ms
From 192.168.1.102: icmp_seq=5 Redirect Host(New nexthop: 192.168.1.153)
64 bytes from 192.168.1.153: icmp_seq=5 ttl=64 time=0.089 ms
From 192.168.1.102: icmp_seq=6 Redirect Host(New nexthop: 192.168.1.153)
64 bytes from 192.168.1.153: icmp_seq=6 ttl=64 time=0.086 ms
64 bytes from 192.168.1.153: icmp_seq=7 ttl=64 time=0.063 ms

--- 192.168.1.153 ping statistics ---
7 packets transmitted, 7 received, 0% packet loss, time 6066ms
rtt min/avg/max/mdev = 0.063/0.085/0.094/0.013 ms

Subject: Re: communicating between virtual machines
Posted by maratrus on Wed, 18 Mar 2009 17:25:24 GMT
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check iptables rules on 192.168.1.102.