Subject: Help in DHCP Server
Posted by f.sivas on Thu, 10 Jun 2010 15:14:27 GMT
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I have a Debian 5.0 machine with linux-image-2.6.26-2-openvz-686.
With 2 network cards. One is eth0 conected to the modem, the other is eth1 with a static ip (192.168.1.9) conected to an wireless acess point.
At the moment i'v got in the node the DHCP Server runing because i can´t configure it in a virtual machine. What i did was:

First off all stop the dhcp server in the hardware node and unconfigure eth1.

[host-node]:~# ifconfig -a
eth0 Link encap:Ethernet HWaddr xx:xx:xx:xx:xx:xx
inet addr:xxx.xxx.xxx.xxx Bcast:xxx.xxx.xxx.xxx Mask:255.255.240.0
inet6 addr: fe80::221:85ff:fe15:bedf/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:5320 errors:0 dropped:0 overruns:0 frame:0
TX packets:3222 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:6549594 (6.2 MiB) TX bytes:326786 (319.1 KiB)
Interrupt:221

eth1 Link encap:Ethernet HWaddr xx:xx:xx:xx:xx:xx
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:16 Base address:0xe800

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: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)

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:2459 errors:0 dropped:0 overruns:0 frame:0
TX packets:4428 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:143700 (140.3 KiB) TX bytes:6383660 (6.0 MiB)

Then add veth device to CT

[host-node]:~# vzctl set 107 --netif_add eth1 --save

[host-node]:~# ifconfig -a
eth0 Link encap:Ethernet HWaddr xx:xx:xx:xx:xx:xx
inet addr:xxx.xxx.xxx.xxx Bcast:xxx.xxx.xxx.xxx Mask:255.255.240.0
inet6 addr: fe80::221:85ff:fe15:bedf/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:5414 errors:0 dropped:0 overruns:0 frame:0
TX packets:3254 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:6575652 (6.2 MiB) TX bytes:333920 (326.0 KiB)
Interrupt:221

eth1 Link encap:Ethernet HWaddr xx:xx:xx:xx:xx:xx
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:16 Base address:0xe800

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: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)

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:2503 errors:0 dropped:0 overruns:0 frame:0
TX packets:4472 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:147327 (143.8 KiB) TX bytes:6387674 (6.0 MiB)

veth107.1 Link encap:Ethernet HWaddr xx:xx:xx:xx:xx:xx
inet6 addr: fe80::218:51ff:fea1:8375/64 Scope:Link
UP BROADCAST RUNNING 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:0
RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)

Then configure device in CT

[host-node]# ifconfig veth107.1 0
[host-node]# echo 1 > /proc/sys/net/ipv4/conf/veth107.1/forwarding
[host-node]# echo 1 > /proc/sys/net/ipv4/conf/veth107.1/proxy_arp
[host-node]# echo 1 > /proc/sys/net/ipv4/conf/eth1/forwarding
[host-node]# echo 1 > /proc/sys/net/ipv4/conf/eth1/proxy_arp

Configure device in CT107

[ve-101]# ifconfig eth1 0
[ve-101]# ip addr add 192.168.1.9 dev eth1
[ve-101]# ip route add default dev eth1
RTNETLINK answers: File exists
dhcp:/# ip route
192.0.2.1 dev venet0 scope link
default via 192.0.2.1 dev venet0
[ve-101]# ip route del default via 192.0.2.1 dev venet0
[ve-101]# ip route add default dev eth1

Add route in CT0

[host-node]# ip route add 192.168.1.9 dev veth107.1

After this

[ve-101]# apt-get install dhcp3-server

The strange is that i can ping 192.168.1.9 but the clients can´t get any leases.
Can someone help me in the configuration?
Thanks.

Subject: Re: Help in DHCP Server
Posted by f.sivas on Fri, 11 Jun 2010 01:28:55 GMT
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Now i´m geting this:

Hardware node:

localhost:~# tcpdump -n -i eth1
tcpdump: WARNING: eth1: no IPv4 address assigned

tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on eth1, link-type EN10MB (Ethernet), capture size 96 bytes
02:19:07.111641 IP 0.0.0.0.68 > 255.255.255.255.67: BOOTP/DHCP, Request from 00:33:43:6f:ab:47, length 300
02:19:07.113661 arp who-has 192.168.1.156 tell 192.168.1.9
02:19:08.001764 IP 192.168.1.9.67 > 192.168.1.156.68: BOOTP/DHCP, Reply, length 300
02:19:08.009702 IP 0.0.0.0.68 > 255.255.255.255.67: BOOTP/DHCP, Request from 00:33:43:6f:ab:47, length 321
02:19:08.013228 IP 192.168.1.9.67 > 192.168.1.156.68: BOOTP/DHCP, Reply, length 300
02:19:08.034223 arp who-has 192.168.1.156 tell 192.168.1.156
02:19:08.243316 arp who-has 192.168.1.156 tell 192.168.1.156
02:19:08.269618 arp reply 192.168.1.156 is-at 00:21:6b:95:e1:f0
02:19:08.272280 arp who-has 192.168.1.156 tell 192.168.1.156
02:19:08.314028 IP 0.0.0.0.68 > 255.255.255.255.67: BOOTP/DHCP, Request from 00:33:43:6f:ab:47, length 300
02:19:08.581624 arp reply 192.168.1.156 is-at 00:21:6b:95:e1:f0
02:19:08.917636 arp reply 192.168.1.156 is-at 00:21:6b:95:e1:f0

CT107

Jun 11 02:13:46 dhcp dhcpd: DHCPOFFER on 192.168.1.154 to 00:33:43:6f:ab:47 (gjkjgkjgkj) via eth1
Jun 11 02:13:46 dhcp dhcpd: DHCPREQUEST for 192.168.1.154 (192.168.1.9) from 00:33:43:6f:ab:47 (gjkjgkjgkj) via eth1
Jun 11 02:13:46 dhcp dhcpd: DHCPACK on 192.168.1.154 to 00:33:43:6f:ab:47 (gjkjgkjgkj) via eth1
Jun 11 02:13:46 dhcp dhcpd: Abandoning IP address 192.168.1.154: declined.
Jun 11 02:13:46 dhcp dhcpd: DHCPDECLINE of 192.168.1.154 from 00:33:43:6f:ab:47 (gjkjgkjgkj) via eth1: not found
Jun 11 02:13:55 dhcp dhcpd: DHCPDISCOVER from 00:33:43:6f:ab:47 via eth1
Jun 11 02:13:56 dhcp dhcpd: DHCPOFFER on 192.168.1.155 to 00:33:43:6f:ab:47 (gjkjgkjgkj) via eth1
Jun 11 02:13:56 dhcp dhcpd: DHCPREQUEST for 192.168.1.155 (192.168.1.9) from 00:33:43:6f:ab:47 (gjkjgkjgkj) via eth1
Jun 11 02:13:56 dhcp dhcpd: DHCPACK on 192.168.1.155 to 00:33:43:6f:ab:47 (gjkjgkjgkj) via eth1
Jun 11 02:13:56 dhcp dhcpd: Abandoning IP address 192.168.1.155: declined.
Jun 11 02:13:56 dhcp dhcpd: DHCPDECLINE of 192.168.1.155 from 00:33:43:6f:ab:47 (gjkjgkjgkj) via eth1: not found
Jun 11 02:19:07 dhcp dhcpd: DHCPDISCOVER from 00:33:43:6f:ab:47 via eth1
Jun 11 02:19:08 dhcp dhcpd: DHCPOFFER on 192.168.1.156 to 00:33:43:6f:ab:47 (gjkjgkjgkj) via eth1
Jun 11 02:19:08 dhcp dhcpd: DHCPREQUEST for 192.168.1.156 (192.168.1.9) from 00:33:43:6f:ab:47 (gjkjgkjgkj) via eth1
Jun 11 02:19:08 dhcp dhcpd: DHCPACK on 192.168.1.156 to 00:33:43:6f:ab:47 (gjkjgkjgkj) via eth1
Jun 11 02:19:08 dhcp dhcpd: Abandoning IP address 192.168.1.156: declined.

Subject: Re: Help in DHCP Server
Posted by maratrus on Fri, 11 Jun 2010 11:32:19 GMT
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Dear f.sivas,

don't you think that something is not clear with 192.168.1.156?
Doesn't the following message mean that somebody has already had that ip address?

02:19:08.269618 arp reply 192.168.1.156 is-at 00:21:6b:95:e1:f0