Subject: *SOLVED* Trying to get IP in a laptop from a DHCP server inside a VE.
Posted by mcarreira on Sun, 25 Mar 2007 19:50:02 GMT
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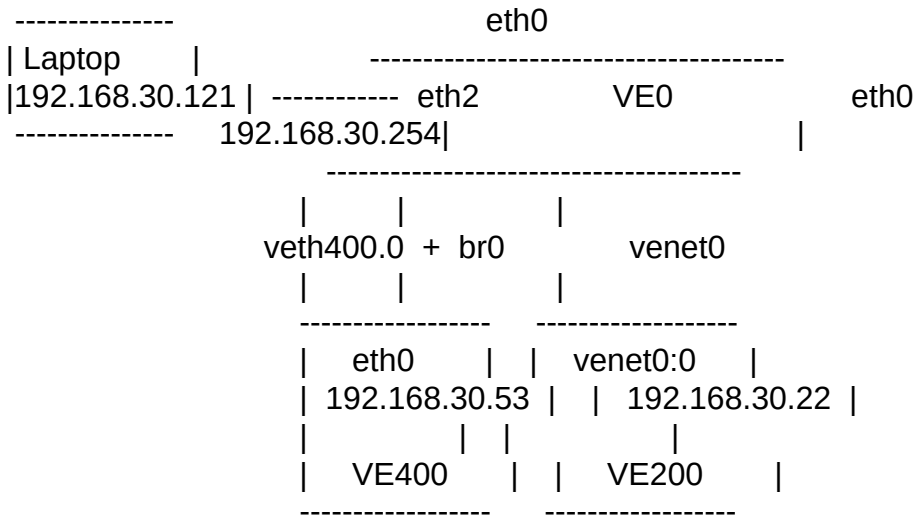
I have a problem that I can't solve without some help.
My HN has 3 NIC's. But for now, let's only think about one of them (eth2).



I Created a veth in VE400 and then a bridge using only veth400.0.
This is the way I found in the wiki and forum to setup a VE which is going to be a DHCP server.
After setting up the bridge I can ping from the laptop to VE400 and from VE400 to the laptop.
I also can ssh both sides.
But when I run a DHCP server inside VE400, and I configure the laptop NIC to aquire the ip with dhcp, it doesn't work.
It seems broadcasts don't flow from laptop to VE400 (tcpdump inside VE400 don't detect any broadcast from laptop, although it detects all the other packets arriving from it).
I tried to change /proc/sys/net/ipv4/conf/br0/bootp_relay and /proc/sys/net/ipv4/conf/eth2/bootp_relay to 1, but nothing happened too (it seems this bootp_relay doesn't work either).

I don't know what else to do now.
Is there anyone who knows the answer?

Thanks,

M.Carreira

Subject: Re: Trying to get IP in a laptop from a DHCP server inside a VE.
Posted by Andrey Mirkin on Mon, 26 Mar 2007 09:46:52 GMT
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Please post here output of following commands.
In VE0
ip a l
ip r l
brctl show
In VE:
ip a l
ip r l

Subject: Re: Trying to get IP in a laptop from a DHCP server inside a VE.
Posted by mcarreira on Mon, 26 Mar 2007 12:16:03 GMT
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Here it is:

In VE0:

```
[root@vzrouter ~]# ip a ls
2: lo: <LOOPBACK,UP,10000> 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: sit0: <NOARP> mtu 1480 qdisc noop
    link/sit 0.0.0.0 brd 0.0.0.0
6: eth0: <BROADCAST,MULTICAST,UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 00:0e:2e:83:e3:99 brd ff:ff:ff:ff:ff:ff
    inet 10.17.30.254/24 brd 10.17.30.255 scope global eth0
8: eth1: <BROADCAST,MULTICAST,UP,10000> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 00:18:f3:6c:4a:33 brd ff:ff:ff:ff:ff:ff
    inet 192.168.10.55/24 brd 192.168.10.255 scope global eth1
    inet6 fe80::218:f3ff:fe6c:4a33/64 scope link
       valid_lft forever preferred_lft forever
10: eth2: <BROADCAST,MULTICAST,UP,10000> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 00:18:f3:6c:4b:44 brd ff:ff:ff:ff:ff:ff
    inet 192.168.30.254/24 brd 192.168.30.255 scope global eth2
    inet6 fe80::218:f3ff:fe6c:4b44/64 scope link
       valid_lft forever preferred_lft forever
1: venet0: <BROADCAST,POINTOPOINT,NOARP,UP,10000> mtu 1500 qdisc noqueue
    link/void
```

```
3: veth400.0: <BROADCAST,MULTICAST,UP,10000> mtu 1500 qdisc noqueue
    link/ether 00:18:51:06:11:78 brd ff:ff:ff:ff:ff:ff
    inet6 fe80::218:51ff:fe06:1178/64 scope link
       valid_lft forever preferred_lft forever
12: br0: <BROADCAST,MULTICAST,UP,10000> mtu 1500 qdisc noqueue
    link/ether 00:18:51:06:11:78 brd ff:ff:ff:ff:ff:ff
    inet6 fe80::218:51ff:fe06:1178/64 scope link
       valid_lft forever preferred_lft forever
```

```
[root@vzrouter ~]# ip r l
192.168.30.22 dev venet0  scope link
192.168.30.53 dev br0  scope link
10.17.30.0/24 dev eth0  proto kernel  scope link  src 10.17.30.254
192.168.30.0/24 dev eth2  proto kernel  scope link  src 192.168.30.254
192.168.10.0/24 dev eth1  proto kernel  scope link  src 192.168.10.55
default via 192.168.10.1 dev eth1
```

```
[root@vzrouter ~]# brctl show
bridge name     bridge id               STP enabled     interfaces
br0             8000.001851061178       no              veth400.0
```

In VE400:

```
[root@sdns ~]# ip a l
1: lo: <LOOPBACK,UP,10000> 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
3: venet0: <BROADCAST,POINTOPOINT,NOARP> mtu 1500 qdisc noop
    link/void
5: eth0: <BROADCAST,MULTICAST,UP,10000> mtu 1500 qdisc noqueue
    link/ether 00:18:51:d2:4e:66 brd ff:ff:ff:ff:ff:ff
    inet 192.168.30.53/24 brd 192.168.30.255 scope global eth0
    inet6 fe80::218:51ff:fed2:4e66/64 scope link
       valid_lft forever preferred_lft forever
```

```
[root@sdns ~]# ip r l
192.168.30.0/24 dev eth0  proto kernel  scope link  src 192.168.30.53
default via 192.168.30.254 dev eth0
```

Subject: Re: Trying to get IP in a laptop from a DHCP server inside a VE.
Posted by Andrey Mirkin on Mon, 26 Mar 2007 14:06:52 GMT
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You need to add to bridge eth2 interface too.
And move IP configuration (IP address and routes) from eth2 interface to br0 device.
I would suggest to not perform IP changes from remote console, because connection will be lost when you will remove IP address from eth2 device.

It is needed to add eth2 interface to bridge too, because only in this case packets from 192.168.30.0/24 network will be delivered to VE 400 without routing and hence DHCP packets will not dropped.

Subject: Re: Trying to get IP in a laptop from a DHCP server inside a VE.
Posted by mcarreira on Tue, 27 Mar 2007 00:08:45 GMT
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Thanks a lot for your help!
It's working now!