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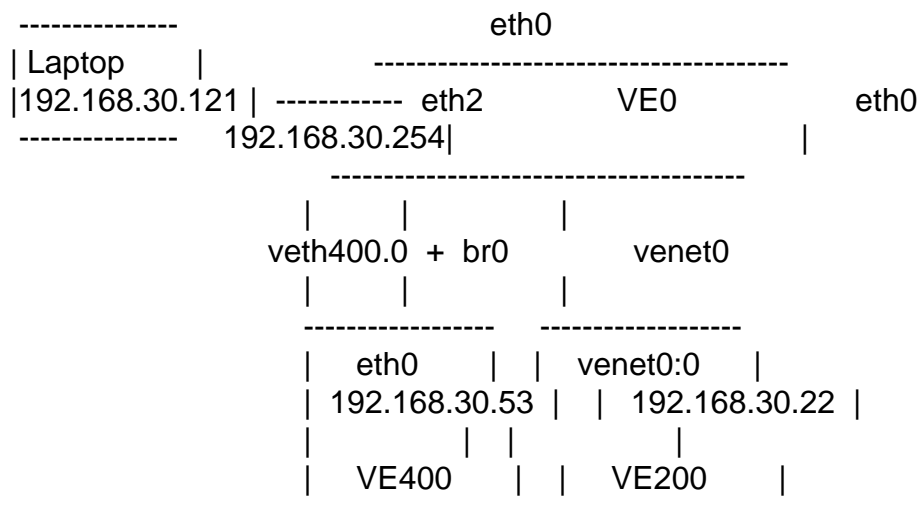
Subject: \*SOLVED\* Trying to get IP in a laptop from a DHCP server inside a VE.  
Posted by [mcarreira](#) on Sun, 25 Mar 2007 19:50:02 GMT

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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 acquire 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

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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
```

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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:

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```
[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

```

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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
```

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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.

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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!