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Subject: Cannot get veth working to save my life... please help!

Posted by [batfastad](#) on Sun, 01 Nov 2009 21:11:05 GMT

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Hi everyone

I'm really struggling getting veth to work. The container is Ubuntu 8.04 64bit and host is CentOS 5.3 64bit

I'm following this guide... [http://wiki.openvz.org/Veth#Simple\\_configuration\\_with\\_virtual\\_Ethernet\\_device](http://wiki.openvz.org/Veth#Simple_configuration_with_virtual_Ethernet_device)  
but I just can't get it going

Here's what I'm doing:

```
vzctl set 105 --netif_add eth0,,vzbr0 --save
```

```
[host-node]# ifconfig veth105.0 0
[host-node]# echo 1 > /proc/sys/net/ipv4/conf/veth105.0/forwarding
[host-node]# echo 1 > /proc/sys/net/ipv4/conf/veth105.0/proxy_arp
[host-node]# echo 1 > /proc/sys/net/ipv4/conf/eth0/forwarding
[host-node]# echo 1 > /proc/sys/net/ipv4/conf/eth0/proxy_arp
```

```
[host-node]# vzctl enter 101
[ve-101]# /sbin/ifconfig eth0 0
[ve-101]# /sbin/ip addr add 192.168.1.15 dev eth0
[ve-101]# /sbin/ip route add default dev eth0
```

Do I need to restart the CT or the host's networking at any point in this procedure?

At what point should I be able to ping out of the container?

Anyone?

I've been working on this all day to switch our servers over and still no luck

Cheers, B

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Subject: Re: Cannot get veth working to save my life... please help!

Posted by [curx](#) on Mon, 02 Nov 2009 17:39:36 GMT

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Hi,

can you the output of your bridge configuration to examine if the veth(ernet) device is added to your bridge:

```
# brctl show
```

Bye,  
Thorsten

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Subject: Re: Cannot get veth working to save my life... please help!

Posted by [batfastad](#) on Fri, 06 Nov 2009 19:29:50 GMT

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Hi Torsten

Thanks for replying... Sorry for the lack of reply on my part. Because I couldn't get it working I had to re-install our old server configuration.

I've now got a test box setup to experiment with veth and bridges

Host OS is Ubuntu 8.04 Server, container #104 is CentOS 5.3

When I finally get the hang of this veth stuff then my production environment will be the other way round... CentOS host and Ubuntu template (with other CentOS templates)

I created a fresh container and managed to delete my old bridge device.

I still can't get it working.

I've basically followed this section

[http://wiki.openvz.org/Veth#Simple\\_configuration\\_with\\_virtual\\_Ethernet\\_device](http://wiki.openvz.org/Veth#Simple_configuration_with_virtual_Ethernet_device)

I got a permission denied error on each of these commands

```
[host-node]# sudo echo 1 > /proc/sys/net/ipv4/conf/veth104.0/forwarding
```

```
[host-node]# sudo echo 1 > /proc/sys/net/ipv4/conf/veth104.0/proxy_arp
```

```
[host-node]# sudo echo 1 > /proc/sys/net/ipv4/conf/eth0/forwarding
```

```
[host-node]# sudo echo 1 > /proc/sys/net/ipv4/conf/eth0/proxy_arp
```

... So that's not good. That could be why this isn't working.

192.168.1.96 is the static IP I want to assign to this VE

```
[host-node]# sudo vzctl enter 104
```

```
[ve-104]# /sbin/ifconfig eth0 0
```

```
[ve-104]# /sbin/ip addr add 192.168.1.96 dev eth0
```

```
[ve-104]# /sbin/ip route add default dev eth0
```

That final line I get an error "RTNETLINK answers: Network is down"

```
[host-node]# sudo brctl addbr vzbr0
```

```
[host-node]# sudo brctl addif vzbr0 veth104.0
```

```
[host-node]# sudo ifconfig vzbr0 0
```

```
[host-node]# sudo echo 1 > /proc/sys/net/ipv4/conf/vzbr0/forwarding
```

```
[host-node]# sudo echo 1 > /proc/sys/net/ipv4/conf/vzbr0/proxy_arp
```

Again I got permission denied errors when trying to echo 1 > /proc...

Then I did this (where 192.168.1.96 is the IP I want to assign to my VE)...

```
[host-node]# sudo ip route add 192.168.1.96 dev veth104.0
```

```
[host-node]# ip route add 192.168.1.96 dev vzbr0
```

At this point, when I run `brctl show` I had the `veth104.0` listed under my bridge `vzbr0`  
So I tried...

```
sudo brctl addif eth0
```

to try and add my host's `eth0` to the bridge as well.

Then when I re-run `brctl show` I get `eth0` and `veth104.0` listed under `vzbr0`

But I can't ping anywhere but `localhost` from the host. And nowhere from within the VE.  
I get the error "Network is unreachable" in all cases apart from pinging `localhost`.

I think I'm missing some steps and that I'm not bringing up/down the network or an interface when I should somewhere.

Any ideas?

Would the procedure vary massively between an Ubuntu host and a CentOS host?

Don't suppose anyone can write me a basic step-by-step on this?

I'm willing to give a (small) Paypal reward to someone with (extreme ) patience who can help me out!!

Cheers, B

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