
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

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
