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Subject: Dual veth interfaces

Posted by [foxxfiles](#) on Mon, 17 Jul 2006 19:20:59 GMT

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Hi.

I have a problem.

I need configure some VPS on a Host Server with 2 interfaces.

I am try with NAT but i dont know how not work.

Now iam compile with kernel 2.6.16 with ovz patch with the veth support.

I need all VPSs have can see 2 networks with 2 veth devices. But only can see the interface with the default gw according with

[http://wiki.openvz.org/Virtual\\_Ethernet\\_device](http://wiki.openvz.org/Virtual_Ethernet_device)

But i cant see the other network on second veth interface.

this is the schema:

```
200.25.123.2eth0-host<---->200.25.123.2veth101.0-eth0-vps
192.168.156.33eth1-veth101.1-vps<----->192.168.156.1eth1
```

Fernando.

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Subject: Re: Dual veth interfaces

Posted by [Andrey Mirkin](#) on Tue, 18 Jul 2006 08:57:48 GMT

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As I understand you have 2 network interfaces (eth0 and eth1) on host node, which are connected to different network segments (outside network and virtual subnetwork 192.168.156.0). And you need to configure 2 veth devices to be able to reach these network segments.

Besides steps from [http://wiki.openvz.org/Virtual\\_Ethernet\\_device](http://wiki.openvz.org/Virtual_Ethernet_device) you need to add routes inside VPS:

```
[vps]# ip ro add 192.168.156.0/24 dev eth1
[vps]# ip ro add default dev eth0
```

Also you will need to add NAT rule to iptables on host node:

```
[host-node]# iptables -t nat -A POSTROUTING -s 192.168.156.0/24 --out-interface eth0 -j SNAT
```

--to-source 200.25.123.2

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Subject: Re: Dual veth interfaces  
Posted by [AngelMC](#) on Tue, 18 Jul 2006 09:49:00 GMT  
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foxxfiles wrote on Mon, 17 July 2006 15:20HI.  
I am try with NAT but i dont know how not work.

I think that your problem is NAT routing.

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Subject: Re: Dual veth interfaces  
Posted by [foxxfiles](#) on Tue, 18 Jul 2006 17:43:56 GMT  
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Hi.

The logic is this you say. but i dont know where i am fail.

look.

```
host-node# ifconfig veth101.0 0
host-node# ifconfig veth101.1 0
host-node# echo 1 > /proc/sys/net/ipv4/conf/veth101.0/forwarding
host-node# echo 1 > /proc/sys/net/ipv4/conf/veth101.0/proxy_arp
host-node# echo 1 > /proc/sys/net/ipv4/conf/veth101.1/forwarding
host-node# echo 1 > /proc/sys/net/ipv4/conf/veth101.1/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# echo 1 > /proc/sys/net/ipv4/conf/eth1/forwarding
host-node# echo 1 > /proc/sys/net/ipv4/conf/eth1/proxy_arp
```

```
test-vps# /sbin/ifconfig eth0 0
test-vps# /sbin/ifconfig eth1 0
test-vps# /sbin/ip addr add 200.25.96.2 dev eth0
test-vps# /sbin/ip addr add 192.168.156.252 dev eth1
test-vps# /sbin/ip ro add 192.168.156.0/24 dev eth1
test-vps# /sbin/ip route add default dev eth0
```

```
host-node# /sbin/ip route add 192.168.156.252 dev veth101.1
host-node# /sbin/ip route add 200.25.96.2 dev veth101.0
```

After This on other host 2 interfaces with communication on 2 Networks.

```
fox@otherhost:~$ ping 192.168.156.252
PING 192.168.156.252 (192.168.156.252) 56(84) bytes of data.
From 192.168.156.5 icmp_seq=2 Destination Host Unreachable
From 192.168.156.5 icmp_seq=3 Destination Host Unreachable
From 192.168.156.5 icmp_seq=4 Destination Host Unreachable
```

```
--- 192.168.156.252 ping statistics ---
6 packets transmitted, 0 received, +3 errors, 100% packet loss, time 5010ms
, pipe 3
```

```
fox@otherhost:~$ ping 200.25.96.2
PING 200.25.96.2 (200.25.96.2) 56(84) bytes of data.
64 bytes from 200.25.96.2: icmp_seq=1 ttl=64 time=0.045 ms
64 bytes from 200.25.96.2: icmp_seq=2 ttl=64 time=0.035 ms
```

```
--- 2200.25.96.2 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1000ms
rtt min/avg/max/mdev = 0.035/0.040/0.045/0.005 ms
```

Only work the interface with the default gw on VPS.  
I am omit some step?  
Howto make Work this.

Fernando

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Subject: Re: Dual veth interfaces  
Posted by [Andrey Mirkin](#) on Wed, 19 Jul 2006 08:41:54 GMT  
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Do you have routes for 192.168.156.0 subnetwork on "otherhost" node? What network interfaces do you have on "otherhost"? What IP addresses are assigned to network interfaces on "otherhost"?  
Can you post here routes list on "host-node" and "otherhost".

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Subject: Re: Dual veth interfaces  
Posted by [foxxfiles](#) on Wed, 19 Jul 2006 21:02:03 GMT  
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This is ethernet Configuration of the enviroment

200.25.96.7-eth0-otherhost-eth1-192.168.156.6  
200.25.96.3-eth0-host-node-eth1-192.168.156.5  
200.25.96.2-eth0-test-vps-eth1-192.168.156.252

-----  
host-node:/home/fox# route

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
200.25.96.2 *		255.255.255.255	UH	0	0	0	veth101.0
192.168.156.252 *		255.255.255.255	UH	0	0	0	veth101.1
1							
localnet *		255.255.255.240	U	0	0	0	eth0
192.168.156.0 *		255.255.255.0	U	0	0	0	eth1
default	gw.somedomain.com	0.0.0.0	UG	0	0	0	eth0

host-node:/home/fox#

-----  
test-vps:/# route

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
191.255.255.1 *		255.255.255.255	UH	0	0	0	venet0
192.168.156.0 *		255.255.255.0	U	0	0	0	eth1
default *		0.0.0.0	U	0	0	0	eth0

test-vps:/#

-----  
otherhost:/home/fox# route

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
localnet *		255.255.255.240	U	0	0	0	eth0
192.168.156.0 *		255.255.255.0	U	0	0	0	eth1
default	gw.somedomain.com	0.0.0.0	UG	0	0	0	eth0

otherhost:/home/fox#

-----  
Fernando

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Subject: Re: Dual veth interfaces  
Posted by [Andrey Mirkin](#) on Fri, 21 Jul 2006 08:36:31 GMT  
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Does otherhost-eth1 connected directly to host-node-eth1?

Please check with help of tcpdump that ICMP packets (ping) from otherhost reach interfaces host-node-eth1 and host-node-veth101.1.

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Subject: Re: Dual veth interfaces  
Posted by [foxxfiles](#) on Fri, 21 Jul 2006 19:50:03 GMT  
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Yes the eth1-host-node and eth1-otherhost connected to a swiche.  
and recibe ping.

from host-node ping to test-vps and recibe this :

```
fox@host-node:~$ ping 192.168.156.252
PING 192.168.156.252 (192.168.156.252) 56(84) bytes of data.
From 200.25.96.3 icmp_seq=2 Destination Host Unreachable
From 200.25.96.3 icmp_seq=3 Destination Host Unreachable
From 200.25.96.3 icmp_seq=4 Destination Host Unreachable
From 200.25.96.3 icmp_seq=6 Destination Host Unreachable
From 200.25.96.3 icmp_seq=7 Destination Host Unreachable
From 200.25.96.3 icmp_seq=8 Destination Host Unreachable
From 200.25.96.3 icmp_seq=10 Destination Host Unreachable
From 200.25.96.3 icmp_seq=11 Destination Host Unreachable
From 200.25.96.3 icmp_seq=12 Destination Host Unreachable
From 200.25.96.3 icmp_seq=14 Destination Host Unreachable
From 200.25.96.3 icmp_seq=15 Destination Host Unreachable
From 200.25.96.3 icmp_seq=16 Destination Host Unreachable
```

```
--- 192.168.156.252 ping statistics ---
18 packets transmitted, 0 received, +12 errors, 100% packet loss, time 16999ms
, pipe 3
fox@host-node:~$
```

-----  
Tcpdump report trafic only on lo device

```
14:47:05.692075 IP host-node.somedomain.com> host-node.somedomain.com: icmp 64: echo
request seq 163
14:47:05.692100 IP host-node.somedomain.com > host-node.somedomain.com: icmp 64: echo
reply seq 163
14:47:06.691569 IP host-node.somedomain.com > host-node.somedomain.com: icmp 64: echo
```

request seq 164

14:47:06.691591 IP host-node.somedomain.com > host-node.somedomain.com: icmp 64: echo  
reply seq 164

14:47:05.692075 IP host-node.somedomain.com > host-node.somedomain.com: icmp 64: echo  
request seq 163

14:47:05.692100 IP host-node.somedomain.com > host-node.somedomain.com: icmp 64: echo  
reply seq 163

14:47:06.691569 IP host-node.somedomain.com > host-node.somedomain.com: icmp 64: echo  
request seq 164

14:47:06.691591 IP host-node.somedomain.com > host-node.somedomain.com: icmp 64: echo  
reply seq 164

Any Idea?

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Subject: Re: Dual veth interfaces

Posted by [Andrey Mirkin](#) on Tue, 25 Jul 2006 12:16:47 GMT

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I'm sorry for not answering so long.

Just assign IPs to veth devices in VE0.

To veth101.0 you must assign IP from 200.25.96.0 network.

To veth101.1 you must assign IP from 192.168.156.0 network.

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Subject: Re: Dual veth interfaces

Posted by [foxxfiles](#) on Tue, 01 Aug 2006 16:07:18 GMT

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Hi

Work but have to much lost packages.

any idea?

Fernando.

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Subject: Re: Dual veth interfaces

Posted by [Andrey Mirkin](#) on Wed, 02 Aug 2006 11:42:38 GMT

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Can you please check what you have in `/proc/sys/net/ipv4/conf/*/rp_filter`.

Also check `/etc/sysctl.conf` and set `rp_filter` values to 0.

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