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Subject: connection between two VE's

Posted by [justasp](#) on Tue, 19 May 2009 14:13:04 GMT

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Hello,

I have a strange problem - one VE can't reach other one. What I'm trying to do:

1) I ping FROM VE 107 to VE 106

2) On HN while tcpdumping veth107.0 I see arp-who-has ip-of-106 tell to ip-of-107 but no reply

Quote:listening on veth107.0, link-type EN10MB (Ethernet), capture size 96 bytes

17:10:22.722419 arp who-has 213.197.185.1 tell 213.197.185.2

Quote:on HN:

```
ovz-vps4:/etc/network# arp 213.197.185.1
```

Address	HWtype	HWaddress	Flags	Mask	Iface
213.197.185.1	ether	00:18:51:09:E6:C3	C		veth106.0

So HN have information about MAC of VE106.

Both VE 106 and VE 107 can reach internet without problems.

HN have two interfaces - eth1 is connected to private network, eth0 to public. We use source based routing to direct all traffic from VE106 & VE107 to eth0.

Network config on HN:

Quote:

```
SERVER1_IP="213.197.164.179"
```

```
SERVER1_DEV="veth106.0"
```

```
ifconfig $SERVER1_DEV 0
```

```
echo 1 > /proc/sys/net/ipv4/conf/$SERVER1_DEV/forwarding
```

```
echo 1 > /proc/sys/net/ipv4/conf/$SERVER1_DEV/proxy_arp
```

```
ip route add $SERVER1_IP dev $SERVER1_DEV
```

```
iptables -A FORWARD -i $SERVER1_DEV -s $SERVER1_IP -d 0/0 -j GOOD;
```

```
iptables -A FORWARD -i eth0 -s 0/0 -d $SERVER1_IP -j GOOD;
```

```
ip route add 213.197.185.1 dev $SERVER1_DEV
```

```
iptables -A FORWARD -i $SERVER1_DEV -s 213.197.185.1 -d 0/0 -j GOOD;
```

```
iptables -A FORWARD -i eth0 -s 0/0 -d 213.197.185.1 -j GOOD;
```

```
ip route add 213.197.164.180 dev $SERVER1_DEV
```

```
iptables -A FORWARD -i $SERVER1_DEV -s 213.197.164.180 -d 0/0 -j GOOD;
```

```
iptables -A FORWARD -i eth0 -s 0/0 -d 213.197.164.180 -j GOOD;
```

```
#####
```

```
NS2NEWSYSTEMS_IP="213.197.185.2"
```

```
NS2NEWSYSTEMS_DEV="veth107.0"
```

```
ifconfig $NS2NEWSYSTEMS_DEV 0
```

```
echo 1 > /proc/sys/net/ipv4/conf/$NS2NEWSYSTEMS_DEV/forwarding
```

```
echo 1 > /proc/sys/net/ipv4/conf/$NS2NEWSYSTEMS_DEV/proxy_arp
```

```
ip route add 213.197.185.2 dev veth107.0
```

```
iptables -A FORWARD -i $NS2NEWSYSTEMS_DEV -s $NS2NEWSYSTEMS_IP -d 0/0 -j GOOD;
```

```
iptables -A FORWARD -i eth0 -s 0/0 -d $NS2NEWSYSTEMS_IP -j GOOD;
```

```
iptables -A FORWARD -i veth106.0 -s 0/0 -d $NS2NEWSYSTEMS_IP -j GOOD;
#####
ip route del dev eth0
ip rule add from 213.197.164.179 table 10
ip rule add from 213.197.164.180 table 10
ip rule add from 213.197.185.1 table 10
ip rule add from 213.197.185.2 table 10
ip route add default dev eth0 via 213.197.164.183 table 10
#####
```

Any help would be highly appreciated!

J

