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Subject: Re: Some VE on one HW node cannot communicate each other (getting Time to live exceeded)

Posted by [Jan Tomasek](#) on Thu, 28 Dec 2006 12:24:48 GMT

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Hello again,

I bit moved forward in solving my problem, but still need help.  
Recapitulation first.

I've two network cards, first is connected to 195.113.233.0/24 network:

```
> auto eth0
> iface eth0 inet static
>     address 195.113.233.254
>     netmask 255.255.255.0
>     network 195.113.233.0
>     broadcast 195.113.233.255
>     gateway 195.113.233.1
```

Second is connected to 195.113.187.0/26 network:

```
> iface eth1 inet static
>     address 195.113.187.37
>     netmask 255.255.255.192
>     network 195.113.187.0
>     broadcast 195.113.187.63
>     post-up /etc/network/post-up-eth1
>     post-down /etc/network/post-down-eth1
```

Everything is in this setup working, except of communication between VE systems using eth1 and eth0.

Ping from VE (195.113.187.33) using eth1 to system using eth0 (195.113.233.253):

```
ermon:~# ping 195.113.233.253
PING 195.113.233.253 (195.113.233.253) 56(84) bytes of data.
From 195.113.187.37 icmp_seq=1 Time to live exceeded
From 195.113.187.37 icmp_seq=2 Time to live exceeded
```

Pinging to everywhere else is ok.

I discovered that I have to add route for network 195.113.233.0/24 to be routed to eth1 and GW 195.113.187.1 default is to eth0, which sends that TTL exceeded error.

But after setting that route, I'm still not able reach boxes using 195.113.233.0/24 on local eth0 interface. For this I've setup route via venet0 interface.

File "/etc/network/post-up-eth1":

```
#!/bin/bash

ip rule add from 195.113.187.33 table 6
ip rule add from 195.113.187.35 table 6
ip route add default dev eth1 via 195.113.187.1 table 6
ip route add 195.113.233.0/24 dev eth1 via 195.113.187.1 table 6
ip route add 195.113.233.252 dev venet0 table 6
ip route add 195.113.233.253 dev venet0 table 6

# Ignore any error of above commands
exit 0;
```

File "/etc/network/post-down-eth1":

```
#!/bin/bash

ip rule delete from 195.113.187.33 table 6
ip rule delete from 195.113.187.35 table 6
ip route delete 195.113.233.252 dev venet0 table 6
ip route delete 195.113.233.253 dev venet0 table 6

# Ignore any error of above commands
exit 0;
```

```
chlivek:~# ip rule
0:    from all lookup 255
32764: from 195.113.187.35 lookup 6
32765: from 195.113.187.33 lookup 6
32766: from all lookup main
32767: from all lookup default
```

```
chlivek:~# ip route
195.113.187.33 dev venet0 scope link src 195.113.233.254
192.168.1.2 dev venet0 scope link src 195.113.233.254
195.113.233.253 dev venet0 scope link src 195.113.187.37
195.113.233.252 dev venet0 scope link src 195.113.233.254
195.113.187.0/26 dev eth1 proto kernel scope link src 195.113.187.37
195.113.233.0/24 dev eth0 proto kernel scope link src 195.113.233.254
default via 195.113.233.1 dev eth0
```

```
chlivek:~# ip route show table 6
195.113.233.253 dev venet0 scope link
```

195.113.233.252 dev venet0 scope link  
195.113.233.0/24 via 195.113.187.1 dev eth1  
default via 195.113.187.1 dev eth1

It seems to work but it is bit complicated. If anyone know simpler way please tell me.

Best regards

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