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Subject: \*SOLVED\* Access two subnets on two different NICs from VE with venet adapter

Posted by [christoph](#) on Wed, 20 Jun 2007 15:34:07 GMT

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Hello!

I've the following problem, when I like to access two different subnets on two different NICs on HN from a VE with venet adapter.

Ok, here is my situation in detail.

HN: eth0 10.0.0.101/24  
eth1 192.168.255.1/24

VE: venet0:0 10.0.0.123  
venet0:1 192.168.255.33

Now I try to ping to some other machine on the network from within the VE.

```
-bash-3.00# ping 10.0.0.102
```

```
PING 10.0.0.102 (10.0.0.102) 56(84) bytes of data.
```

```
64 bytes from 10.0.0.102: icmp_seq=0 ttl=63 time=0.138 ms
```

```
64 bytes from 10.0.0.102: icmp_seq=1 ttl=63 time=0.135 ms
```

```
--- 10.0.0.102 ping statistics ---
```

```
2 packets transmitted, 2 received, 0% packet loss, time 999ms
```

```
rtt min/avg/max/mdev = 0.135/0.136/0.138/0.011 ms, pipe 2
```

```
-bash-3.00# ping 192.168.255.2
```

```
PING 192.168.255.2 (192.168.255.2) 56(84) bytes of data.
```

```
--- 192.168.255.2 ping statistics ---
```

```
3 packets transmitted, 0 received, 100% packet loss, time 1999ms
```

```
-bash-3.00# logout
```

```
exited from VE 1001
```

```
[root@HN ~]# ping 192.168.255.2
```

```
PING 192.168.255.2 (192.168.255.2) 56(84) bytes of data.
```

```
64 bytes from 192.168.255.2: icmp_seq=0 ttl=64 time=0.176 ms
```

I also checked with tcpdump on 192.168.255.2 and found out that the echo request arrives, but with a source IP of 10.0.0.123.

I don't want to use the veth adapter for security reasons.  
How can I best solve that problem with venet adapter?

Thank you,  
Christoph

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Subject: Re: Access two subnets on two different NICs from VE with venet adapter  
Posted by [Andrey Mirkin](#) on Thu, 21 Jun 2007 10:23:42 GMT

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You need to use source based routing ([http://wiki.openvz.org/Source\\_based\\_routing](http://wiki.openvz.org/Source_based_routing))

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Subject: Re: Access two subnets on two different NICs from VE with venet adapter  
Posted by [christoph](#) on Thu, 21 Jun 2007 13:14:42 GMT

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Andrey,

thank you for your response.

I already checked the source based routing page before, however I wasn't really able to get it working.

I tried the following additional rule:

```
# ip rule show
```

```
0:    from all lookup local
```

```
32765: from all to 192.168.255.0/24 lookup 123
```

```
32766: from all lookup main
```

```
32767: from all lookup default
```

```
# ip route show table 123
```

```
default dev eth1  scope link
```

Any hints?

Thank you,  
Christoph

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Subject: Re: Access two subnets on two different NICs from VE with venet adapter  
Posted by [christoph](#) on Thu, 21 Jun 2007 15:18:24 GMT

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Hello Andrey,

I just found a solution for my problem.

First I ensured that ip\_conntrack was enabled for VE0.

Then I added the following iptables rule, and now it works fine:

```
iptables -t nat -A POSTROUTING -d 192.168.255.0/24 -j MASQUERADE -o eth1
```

Do you see any disadvantage in that way?

Christoph

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Subject: Re: Access two subnets on two different NICs from VE with venet adapter  
Posted by [Andrey Mirkin](#) on Fri, 22 Jun 2007 08:03:21 GMT  
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contracks are not needed in this case.  
You just need to add correct route inside VE for 192.168.255.0 subnetwork.

In your case:

```
venet0:0 10.0.0.123  
venet0:1 192.168.255.33
```

```
# ip ro add 192.168.255.0/24 dev venet0 src 192.168.255.33
```

That's all.

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Subject: Re: Access two subnets on two different NICs from VE with venet adapter  
Posted by [christoph](#) on Tue, 26 Jun 2007 13:46:39 GMT  
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Andrey,

perfect, that's really the way to go!

Thank you,  
Christoph

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Subject: Re: \*SOLVED\* Access two subnets on two different NICs from VE with venet adapter  
Posted by [kraln](#) on Fri, 16 May 2008 15:05:21 GMT  
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I think I have a similar issue.

I have two subnets assigned to me, but only one interface (and one default route). I managed to fix this once, but when I just had to reboot the machine, one of the subnets stopped working.

I have 38.100.42.248/29, HN is 38.100.42.250, 38.100.42.249 is the default gateway.

I also have 38.105.84.192/28.

When the machine came back up, the nodes in the 38.100.42.248 subnet all work but the ones in the 38.105.84.192 subnet all don't.

I don't have any iptables or such malarky running. Help?

(more info:)

[root@pyxis ~]# vzlist

VEID	NPROC	STATUS	IP_ADDR
100	66	running	38.100.42.251
101	6	running	38.100.42.252
105	37	running	38.100.42.253
197	10	running	38.105.84.197
199	8	running	38.105.84.199
200	3	running	38.100.42.254
201	6	running	38.105.84.201
202	23	running	38.105.84.202

[root@pyxis ~]# ip r

38.105.84.197 dev venet0 scope link  
38.105.84.199 dev venet0 scope link  
38.100.42.251 dev venet0 scope link  
38.100.42.252 dev venet0 scope link  
38.105.84.201 dev venet0 scope link  
38.100.42.253 dev venet0 scope link  
38.105.84.202 dev venet0 scope link  
38.100.42.254 dev venet0 scope link  
38.100.42.248/29 dev eth0 proto kernel scope link src 38.100.42.250  
38.105.84.192/28 dev eth0 scope link src 38.100.42.250  
169.254.0.0/16 dev eth0 scope link  
default via 38.100.42.249 dev eth0

[root@pyxis ~]# route

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
38.105.84.197	*	255.255.255.255	UH	0	0	0	venet0
38.105.84.199	*	255.255.255.255	UH	0	0	0	venet0
38.100.42.251	*	255.255.255.255	UH	0	0	0	venet0
38.100.42.252	*	255.255.255.255	UH	0	0	0	venet0
38.105.84.201	*	255.255.255.255	UH	0	0	0	venet0
38.100.42.253	*	255.255.255.255	UH	0	0	0	venet0
38.105.84.202	*	255.255.255.255	UH	0	0	0	venet0
38.100.42.254	*	255.255.255.255	UH	0	0	0	venet0
38.100.42.248	*	255.255.255.248	U	0	0	0	eth0
38.105.84.192	*	255.255.255.240	U	0	0	0	eth0
169.254.0.0	*	255.255.0.0	U	0	0	0	eth0
default	38.100.42.249	0.0.0.0	UG	0	0	0	eth0

[root@pyxis ~]# ifconfig

eth0 Link encap:Ethernet HWaddr 00:30:48:97:E2:70  
inet addr:38.100.42.250 Bcast:38.100.42.255 Mask:255.255.255.248  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
RX packets:316748 errors:0 dropped:0 overruns:0 frame:0

Base address:0x4000 Memory:d0100000-d0120000

eth0:1 Link encap:Ethernet HWaddr 00:30:48:97:E2:70  
inet addr:38.105.84.193 Bcast:38.105.84.207 Mask:255.255.255.240  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
Base address:0x4000 Memory:d0100000-d0120000

venet0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00  
UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1  
RX packets:478279 errors:0 dropped:0 overruns:0 frame:0  
TX packets:301962 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:0  
RX bytes:194917730 (185.8 MiB) TX bytes:42197245 (40.2 MiB)

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Subject: Re: \*SOLVED\* Access two subnets on two different NICs from VE with venet adapter

Posted by [oeginc](#) on Mon, 23 Feb 2009 23:19:11 GMT

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kraln wrote on Fri, 16 May 2008 11:05I think I have a similar issue.

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I don't have any iptables or such malarky running. Help?

I am having the exact same problem, have you found a solution yet? Unfortunately, this post is marked FIXED so I doubt anyone is reading it anymore...

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Subject: Re: \*SOLVED\* Access two subnets on two different NICs from VE with venet adapter

Posted by [maratrus](#) on Tue, 24 Feb 2009 08:40:01 GMT

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Hello,

try to set  
NEIGHBOUR\_DEVS variable in /etc/vz/vz.conf to "all".

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Subject: Re: \*SOLVED\* Access two subnets on two different NICs from VE with  
venet adapter

Posted by [oeginc](#) on Tue, 24 Feb 2009 21:56:16 GMT

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That worked, perfect! Thank you so much!

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