
Subject: *SOLVED* multiples interfaces ?
Posted by [pollux](#) on Fri, 01 Sep 2006 14:21:19 GMT
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I have a host system with 2 interfaces, one with a public address (eth0) and a private address (eth1)

I have added 2 ip addresses using vzctl to the VPS, one in each network:

```
vzctl set 108 --ipadd 134.214.51.158 --save  
vzctl set 108 --ipadd 10.0.0.108 --save
```

Seems ok, but from the VPS I am unable to access hosts in the private network:

```
webmail:~# ping 10.0.0.12
```

```
PING 10.0.0.12 (10.0.0.12) 56(84) bytes of data.
```

```
--- 10.0.0.12 ping statistics ---
```

```
2 packets transmitted, 0 received, 100% packet loss, time 999ms
```

The same ping from the host works. The routing table from host seems ok:

```
vz:~# netstat -nr
```

Kernel IP routing table

Destination	Gateway	Genmask	Flags	MSS	Window	irtt	Iface
10.0.0.108	0.0.0.0	255.255.255.255	UH	0 0	0	0	venet0
134.214.51.157	0.0.0.0	255.255.255.255	UH	0 0	0	0	venet0
134.214.51.158	0.0.0.0	255.255.255.255	UH	0 0	0	0	venet0
10.0.0.0	0.0.0.0	255.255.255.0	U	0 0	0	0	eth1
134.214.50.0	0.0.0.0	255.255.254.0	U	0 0	0	0	eth0
0.0.0.0	134.214.50.1	0.0.0.0	UG	0 0	0	0	eth0

Does someone else have this problem ? Or do I miss any configuration ?

Thanks

Subject: Re: multiples interfaces ?
Posted by [Andrey Mirkin](#) on Fri, 01 Sep 2006 15:24:42 GMT
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Can you please post here tcpdump output on host-node for eth1 and venet0 interfaces when you pinging 10.0.0.12 host from VPS, i.e.:

```
[host-node]# tcpdump -i eth1 host 10.0.0.12
```

```
and
```

```
[host-node]# tcpdump -i venet0 host 10.0.0.12
```

when

```
[vps]# ping 10.0.0.12
```

Please also try to ping host 10.0.0.12 in following way:

```
[vps]# ping 10.0.0.12 -I 10.0.0.108
```

Subject: Re: multiples interfaces ?

Posted by [pollux](#) on Fri, 01 Sep 2006 15:42:41 GMT

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Here you are:

```
host# tcpdump -i eth1 -n host 10.0.0.12
```

```
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
```

```
listening on eth1, link-type EN10MB (Ethernet), capture size 96 bytes
```

```
17:37:19.184178 IP 134.214.51.158 > 10.0.0.12: ICMP echo request, id 53255, seq 1, length 64
```

```
17:37:20.184319 IP 134.214.51.158 > 10.0.0.12: ICMP echo request, id 53255, seq 2, length 64
```

```
17:37:21.184164 IP 134.214.51.158 > 10.0.0.12: ICMP echo request, id 53255, seq 3, length 64
```

```
3 packets captured
```

```
6 packets received by filter
```

```
0 packets dropped by kernel
```

Note that the source address is clearly wrong (should have been 10.0.0.108)

```
host# tcpdump -i venet0 -n host 10.0.0.12
```

```
tcpdump: WARNING: arptype 65535 not supported by libpcap - falling back to cooked socket
```

```
tcpdump: WARNING: venet0: no IPv4 address assigned
```

```
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
```

```
listening on venet0, link-type LINUX_SLL (Linux cooked), capture size 96 bytes
```

```
17:38:23.179430 IP 134.214.51.158 > 10.0.0.12: ICMP echo request, id 53255, seq 65, length 64
```

```
17:38:24.179289 IP 134.214.51.158 > 10.0.0.12: ICMP echo request, id 53255, seq 66, length 64
```

```
17:38:25.179117 IP 134.214.51.158 > 10.0.0.12: ICMP echo request, id 53255, seq 67, length 64
```

```
17:38:26.179034 IP 134.214.51.158 > 10.0.0.12: ICMP echo request, id 53255, seq 68, length 64
```

```
4 packets captured
```

```
8 packets received by filter
```

```
0 packets dropped by kernel
```

Same comment.

And finally:

```
vps# ping 10.0.0.12 -I 10.0.0.108
```

```
PING 10.0.0.12 (10.0.0.12) from 10.0.0.108 : 56(84) bytes of data.
```

```
64 bytes from 10.0.0.12: icmp_seq=1 ttl=63 time=0.102 ms
```

```
64 bytes from 10.0.0.12: icmp_seq=2 ttl=63 time=0.099 ms
```

So it's working when specifying the source address. Is there any way to make this working without arguments ? (maybe using source routing ?)

Thanks for your help

Subject: Re: multiples interfaces ?
Posted by [Andrey Mirkin](#) on Fri, 01 Sep 2006 16:02:31 GMT
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You can see http://wiki.openvz.org/Source_based_routing for details.

Or you can use veth devices if you use 2.6.16 ovz kernel. With veth devices you can easily solve this problem.

Subject: Re: multiples interfaces ?
Posted by [pollux](#) on Fri, 01 Sep 2006 16:10:08 GMT
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Yes, except that I fail to see how source routing would help setting the source address (but I'm not very familiar with it). Is it really possible using routing ?

I'd appreciate some help on this point.

Subject: Re: multiples interfaces ?
Posted by [Andrey Mirkin](#) on Tue, 05 Sep 2006 09:27:09 GMT
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Do you have problems with another programs?
Ping use by default first IP address, that is why you can't ping 10.0.0.12 by default. But if tcp packet will has correct source IP, then everything will work fine. Just configure applications you want use (httpd, smb, etc.) correctly.

Subject: Re: multiples interfaces ?
Posted by [pollux](#) on Tue, 05 Sep 2006 09:35:12 GMT
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Yes, TCP connections have the same problem:

```
vz:~# man telnet
```

```
Reformatting telnet(1), please wait...
```

```
vz:~# telnet 10.0.0.12 110
```

```
Trying 10.0.0.12...
```

```
vz:~# telnet -b 10.0.0.108 10.0.0.12 110
Trying 10.0.0.12...
Connected to 10.0.0.12.
Escape character is '^]'.
+OK Hello there.
```

Thanks for your help.

Subject: Re: multiples interfaces ?
Posted by [Andrey Mirkin](#) on Tue, 05 Sep 2006 11:00:53 GMT
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Did you try to make veth network configuration?
See http://wiki.openvz.org/Virtual_Ethernet_device for details.
With two virtual ethernet adapters you will not need to specify source IP address in applications.

Subject: Re: multiples interfaces ?
Posted by [pollux](#) on Thu, 07 Sep 2006 09:49:18 GMT
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Yes, I know I could have used a veth to do that. I was trying to avoid this solution because the docs mention some problems with that .. (and that it should also work with venet, veth is only a workaround)

Anyway, I have found:
vz# ip route add 10.0.0.0/24 dev venet0 src 10.0.0.108

Thanks for you help.
