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Subject: Multiple interfaces eth0, eth1 on different subnets

Posted by [pyite](#) on Thu, 01 Feb 2007 19:05:44 GMT

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Hello there. I am trying to put my OpenVZ machine on multiple networks so I can create a VPS on any of the VLAN's here.

I am running into two problems:

1) When I start a VPS, it always does the arpsend on eth0. This isn't fatal, just a warning

2) The fatal error: VPS on the eth1 interface are unable to route anywhere - they can only connect to the local network. I am assuming that this is because the default route on the machine is on eth0. Is there any way to set a default route inside of the VPS that is different from the default route outside?

Thanks,  
Mark

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Subject: Re: Multiple interfaces eth0, eth1 on different subnets

Posted by [Reiner030](#) on Wed, 14 Feb 2007 14:46:22 GMT

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Hi,

it's my problem, too...

It seems, that the person on [message #7394] "Dual NIC environment" had the same problem, but the other reader didn't understand his explanations and thought he played a joke with them...

As i found in the searches, the main problem seems the problem with the wrong interface / and even now the wrong interface used by arpsend ... even it's "only" a warning...

My config:

VHost:

eth0: a.b.c.d/255.255.255.224

eth1: 10.0.0.1/255.255.255.0

VE (with standard openvz rules):

veneth0: 127.0.0.1

veneth0:0: a.b.c.e

veneth0:1: 10.0.0.222

1) from VHost AND other server outside:

ping a.b.c.e => works

ping 10.0.0.222 => works

2) from VE to VHost:

ping a.b.c.d => works

ping 10.0.0.1 => works

3) from VE to other server outside:

ping a.b.c.g => works

ping www.heise.de, www.t-online.de and so on => works

ping 10.0.0.3 => didn't work

but

ping -I 10.0.0.222 10.0.0.3 => work

I've used tcdump -I veneth0 on VHost to verify the packet transfer

=> so the source routing for 10.0.0.222 is'nt right...

I thought "no problem", I found here the tipp to change debian-add\_ip.sh ... so i change the script to add routes behind

veneth0:0

up route add -net a.b.c.a netmask 255.255.255.224 dev veneth0:0

and veneth0:1

up route add -net 10.0.0.0 netmask 255.255.255.0 dev veneth0:1

now all pings and my webinterface connection to the mysql server on 10.0.0.3 works correctly ...

BUT

the dns server could'nt be queried ((

I tried to change the default route from the VE FAKEGATEWAY to my Gateway:

up route del default gw 191.255.255.1

up route add default dev venet0:0

but it didnt help either.

If I remove theses routes, dns works / use of 10.0.0.222 is wrong again...

==>

Is it possible to change the arpsend command and when yes, where? I grepped the /etc/vz/ files for arpsend, but didn't find it...

Or is there an easier way to get the right routing?

Thanks.

Reiner

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Subject: Re: Multiple interfaces eth0, eth1 on different subnets

Posted by [Andrey Mirkin](#) on Thu, 15 Feb 2007 14:56:44 GMT

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Please, take a look at this article [https://wiki.openvz.org/Source\\_based\\_routing](https://wiki.openvz.org/Source_based_routing)  
I hope it will help to solve your problems with routing.

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