Subject: VE in separate subnet (other than HN) Posted by kuckus on Sat, 13 Sep 2008 15:49:57 GMT View Forum Message <> Reply to Message Hi all. I am on a Debian 4.0 system and got OpenVZ installed without complications (I've done it before). Now, there is one VE that I have created successfully, however, this VE so far is not able to communicate with the world outside of my HN. What's working fine is pinging the VE from the HN as well as the HN from inside the VE, or doing things like SSH'ing from the HN to the VE and back to the HN. Also, if I set the VE's IP as a second IP for the HN, the HN can be reached through this same IP over the Internet. The setup I'd like to get to work is as follows: HN's IP is 81.x.y.z, HN's default gateway is 81.x.y.1. The IP that I have available to use for the VE is 85.a.b.c/32 (broadcast address 85.a.b.255). After assigning this IP to the VE, this is the routing table on the HN: h50522.serverko * 255.255.255.255 UH 0 0 eth0 81.x.v.1 h50522.serverko 255,255,255,255 UGH 0 0 0 eth085.a.b.c * 255.255.255.255 UH 0 0 0 venet0 default 81.x.y.1 0.0.0.0 UG 0 0 0 eth0 What could I be missing here to get the VE connected to the rest of the network/Internet? If you need any more information, please let me know - any help would be greatly appreciated. Thanks, kuckus

Some more details:

/*edit:

- `ip route` in VE 192.0.2.1 dev venet0 scope link default via 192.0.2.1 dev venet0
- `ip -V` in VE ip utility, iproute2-ss071016
- Kernel version running on HN: 2.6.18-12-fza-686
- `sysctl -p` on HN
 net.ipv4.conf.default.forwarding = 1
 net.ipv4.conf.default.proxy_arp = 0
 net.ipv4.ip_forward = 1
 net.ipv4.conf.all.rp_filter = 1
 kernel.sysrq = 1
 net.ipv4.conf.default.send_redirects = 1
 net.ipv4.conf.all.send_redirects = 0

Subject: Re: VE in separate subnet (other than HN) Posted by den on Tue, 16 Sep 2008 19:49:23 GMT

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Hmm...

*/

Your default gateway (81.x.y.1) need to know how to get to 85.a.b.c. It should have a direct route via VE0 or HWN should answer to arp requests for 85.a.b.c

Could you pls check that

- arp requests for 85.a.b.c are seen on eth0
- arp replies sent back

Basically, arp replies should be sent if ip r g 85.a.b.c from 81.x.y.1 iif eth0 returns route to venet.

Regards, Den

Subject: Re: VE in separate subnet (other than HN)
Posted by Avi Brender on Wed, 17 Sep 2008 13:20:32 GMT
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In the vz config file (/etc/sysconfig/vz) make sure this is set:

Subject: Re: VE in separate subnet (other than HN) Posted by kuckus on Wed, 01 Oct 2008 12:47:19 GMT

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Avi, thanks, but I had this setting in place already.

Den, thank you too - I can see that ping requests are seen on eth0 but no replies are sent back.

I'm not quite the linux networking/routing expert yet though... could you maybe give me some more pointers on what exactly you would check here?

Thanks again, kuckus

Subject: Re: VE in separate subnet (other than HN) Posted by den on Wed, 01 Oct 2008 13:14:34 GMT

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Basically, we should go step by step and check the packet on each interface. In you case:

- VE0, eth0 (seen)
- VE0, venet0
- VEnnn, venet0

When you'll find a place where packets are lost. Next we'll have to check actual reason by netstat -s and investigating iptables.

Right now I think you should start with 'ip r g' in VE0 as I have suggested previously.

Subject: Re: VE in separate subnet (other than HN) Posted by kuckus on Wed, 01 Oct 2008 18:35:40 GMT

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I actually didn't quite recognize the `ip r g` as a command, d'uh.

Anyway:

ip r g 85.a.b.c from 81.x.y.1 iif eth0 85.a.b.c from 81.x.y.1 dev venet0 src 81.x.y.z cache <src-direct> mtu 1500 advmss 1460 hoplimit 64 iif eth0 In the guest VE, pings other than from VE0 are not seen (on venet0:0).

I'm using tcpdump to check this. venet0 on VE0 doesn't have its own IP, what would I use to check the packet there?

ip r g inside VEnnn returns
ip r g 85.a.b.c from 81.x.y.1 iif venet0:0
local 85.a.b.c from 81.x.y.1 dev lo src 85.a.b.c
cache <local.src-direct> iif venet0

Subject: Re: VE in separate subnet (other than HN) Posted by den on Fri, 03 Oct 2008 07:27:19 GMT

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I am complete lost with what you are doing.

OK. Lets assume you are trying to ping from VE to the world. You should subsequently check that ICMP echo requests are going through:

- venet in VE
- venet in VE0
- eth0 in VE0

and you see ICMP echo replies on

- eth0 in VE0
- venet in VE0
- venet in VE

Could you specify which positions of these exact locations are missed.

Subject: Re: VE in separate subnet (other than HN) Posted by kuckus on Fri, 03 Oct 2008 10:50:00 GMT

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OK, sorry.

ICMP echo requests from VE to the world are seen on venet0:0 in VE and venet0 in VE0, but not on eth0 in VE0.

Replies aren't seen on any of the interfaces.

(ICMP echo requests from VE to VE0 are seen on venet0:0 in VE and venet0 in VE0, and replies

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