Subject: Multiple IPs from multiple Networks
Posted by creiss on Wed, 18 Feb 2015 12:41:01 GMT
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Hey folks,

[The Issue]

I am in a bit of a pickle here. So far I am successfully running OpenVZ in several instances, but this newest setting is driving me nuts. It's a network related issue.

[The Setup]

Here is my setup:

46.229.x.y is my public IP space,
10.1.0.x is my private space.

I have a private-only OpenVZ server running in the 10-space, the containers are also in the 10-space, all is good. The issue now arrives with the new server (CentOS 6.6, fully updated) using these vz packages:

vzkernel-2.6.32-042stab104.1.x86_64
vzctl-core-4.8-1.x86_64
vzquota-3.1-1.x86_64
vzstats-0.5.3-1.noarch
vzctl-4.8-1.x86_64

Kernel is 2.6.32-042stab104.1.

The HN has two network devices (eth0 => 46.x, eth1 => 10.x) and one venet0.
The containers all have one public and one private ip, where the public one is primary (venet0) and the other secondary (venet0:0).

[The Situation]

Container 1 can ping outside IP addresses, but can not ping any internal ip. But it can ping the internal IP of the HN. The Container is ping-able from all public servers (I didn't check *all*, tho) and also it IS pingable from all internal servers. The only issue is the container not being able to contact any internal servers.

[What I tried]

- Switching IPs (private first, public second). Then I was able to ping all internal servers but public connections are no longer working

- Trying to understand source routing in the wiki. Uhh.
- Reading the forums

[Update]

It seems that if I ping an internal IP from inside the container pings originate from 46.x not 10.x, as seen on this tcpdump done on the HN:
16:16:57.723679 IP 46.X > server3.public.com: ICMP echo request, id 8471, seq 5, length 64

I am sure it's easily solve-able with your help
Thanks in advance!

Subject: Re: Multiple IPs from multiple Networks
Posted by creiss on Mon, 23 Feb 2015 09:12:08 GMT
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[Solved]

I had to put this in each /etc/rc.local for each openvz Container:

/sbin/ip address delete 10.1.0.89/32 dev venet0 label venet0:1
/sbin/ip address add 10.1.0.89/24 dev venet0 label venet0:1

This assigns a netmask for the secondary IP, making it correctly routed.
