## Subject: Dual networks. Routing issue? Posted by Einar S. Ids on Wed, 31 Aug 2011 08:02:22 GMT View Forum Message <> Reply to Message

Hi,

We currently run a setup with a number of nodes. All of them are connected to two different networks: Frontend ("the internet") and backend (10.0.0.x). These two networks are connected to via separate switches from separate ethernet ports. In this setup, all nodes can communicate with eachother via both the frontend and backend. All virtual hosts have IPs in the frontend-range, and can communicate with eachother. However, I would like some of the virtual hosts to also be able to communicate via the backend network, but so far I have been unable to make this work.

I have tried to run vzctl with --ipadd 10.0.0.x. Upon entering the virtual host, I see that if config correctly reports venet0:1 with the given IP (venet0:0 has the frontend IP). Trying to ping back and forth between hosts and nodes on the backend network, this is what I've found:

- 1. Virtual hosts can ping their local node. This is regardless of whether the virtual host has had an IP in the backend network added.
- 2. Virtual hosts can ping other virtual hosts on the local node. Similarly to (1), the pinging host does not need to have an IP on the backend network.
- 3. Virtual hosts can not ping non-local nodes or non-local virtual hosts.
- 4. Nodes can ping non-local virtual hosts.

(Please recall that the frontend network works flawlessly. These issues only concern the backend.)

My guess is that this is a routing issue, but to be honest I don't know enough about routing to work out what's needed. Here's the output from route on a node with two virtual hsots (I've masked the frontend IP range as 9.9.9.x):

## # route -n

Kernel IP routing table							
Destination	Gateway	y Genmask	I	Flags	Me	tric	Ref Use Iface
9.9.9.173 0.0	0.0.0	255.255.255.255	UH	0	0		0 venet0
10.0.0.179	0.0.0.0	255.255.255.2	255	UH	0	0	0 venet0
10.0.0.173	0.0.0.0	255.255.255.2	255	UH	0	0	0 venet0
9.9.9.179 0.0	0.0.0	255.255.255.255	UH	0	0		0 venet0
9.9.9.128 0.0	0.0.0	255.255.255.192	U	0	0		0 eth0
10.0.0.0	0.0.0.0	255.255.255.0	U	0	0		0 eth1
169.254.0.0	0.0.0.0	255.255.0.0	U	10	02	0	0 eth0
169.254.0.0	0.0.0.0	255.255.0.0	U	10	003	0	0 eth1

0.0.0.0 9.9.9.129 0.0.0.0 UG 0 0 0 eth0

The node IP is 9.9.9.138/10.0.0.138. The two virtual hosts are 9.9.9.179/10.0.0.179 and 9.9.9.173/10.0.0.173.

Here's the same output from the virtual host on x.x.x.179:

# route -n

Kernel IP routing table

Destination Gateway Genmask Flags Metric Ref Use Iface 169.254.0.0 0.0.0.0 255.255.0.0 1002 0 0 venet0 U 0.0.0.0 0.0.0.0 0.0.0.0 0 U 0 0 venet0

Can anyone advice?

Cheers, Einar