## Subject: Networking problem inside a openvz virtual machine Posted by misch on Thu, 12 Jun 2008 10:15:24 GMT

View Forum Message <> Reply to Message

Hi,

I want to setup a Linux-HA cluster inside a vitual openvz machine. Due to the nature of openvz virtual machines I have a problem with IP address resources.

Let me explain the problem: Inside openvz virtual machine there are two different network devices venet and veth.

As far as I understood the documentation, using venet devices you cannot change the ip address inside the virtual machine. So no chance to set up a cluster using IPaddr2 resource the easy way. So no chance to let heartbeat control the IP adress here. I have a ugly workaround, but that is not the topic here.

Using veth device you can change the IP address inside the virtual machine. But you have to set up proxy arp on the host machine and also the host has to know about routing to that machine. If the IP address resource inside the virtual machine is moved away to an other virtual machine located on the same host or another one, the original host will still advertise its MAC address for the vitual IP adress of the cluster and will route the packets to the virtual machine not serving the IP address any more.

Did I understand OpenVZ documentation right? Is there any way out of this dilemma using heartbeat inside openvz vitual machines?

Greetings,

--

Dr. Michael Schwartzkopff MultiNET Services GmbH

Addresse: Bretonischer Ring 7; 85630 Grasbrunn; Germany

Tel: +49 - 89 - 45 69 11 0 Fax: +49 - 89 - 45 69 11 21 mob: +49 - 174 - 343 28 75

mail: misch@multinet.de web: www.multinet.de

Sitz der Gesellschaft: 85630 Grasbrunn

---

PGP Fingerprint: F919 3919 FF12 ED5A 2801 DEA6 AA77 57A4 EDD8 979B

Skype: misch42

Subject: Re: Networking problem inside a openvz virtual machine Posted by kfh on Thu, 12 Jun 2008 10:49:19 GMT

View Forum Message <> Reply to Message

On Thursday den 12. June 2008 12:15:24 Michael Schwartzkopff wrote: > Hi.

>

> I want to setup a Linux-HA cluster inside a vitual openvz machine. Due to

- > the nature of openvz virtual machines I have a problem with IP address
- > resources.

>

- > Let me explain the problem: Inside openvz virtual machine there are two
- > different network devices venet and veth.

>

- > As far as I understood the documentation, using venet devices you cannot
- > change the ip address inside the virtual machine. So no chance to set up a
- > cluster using IPaddr2 resource the easy way. So no chance to let heartbeat
- > control the IP adress here. I have a ugly workaround, but that is not the
- > topic here.

>

- > Using veth device you can change the IP address inside the virtual machine.
- > But you have to set up proxy arp on the host machine and also the host has
- > to know about routing to that machine.

I don't use HA nor venet, but anyway...

I setup bridge (br0) in VE0, and attach physical network adapter to it.

When I start a VE (ID: 1000), I create a veth pair.

In VE0 called ve1000.0 and in VE1000 called eth0.

I attach ve1000.0 to br0 in script pointed to by EXTERNAL\_SCRIPT= in /etc/vz/vznet.conf

Then there is no need for proxy arp.

The VE itself configures the IP address on eth0.

- > If the IP address resource inside
- > the virtual machine is moved away to an other virtual machine located on
- > the same host or another one, the original host will still advertise its
- > MAC address for the vitual IP adress of the cluster and will route the
- > packets to the virtual machine not serving the IP address any more.

>

> Did I understand OpenVZ documentation right?

> Is there any way out of this dilemma using heartbeat inside openvz vitual > machines?
I assume you can create secondary IP address on eth0 in VE1000.
> Greetings,
Good luck,