
Subject: Exposing a virtual node as a public machine
Posted by [simeshev](#) on Fri, 11 Apr 2008 02:57:35 GMT
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Hi,

We have just set up our first virtual node. Now we would like to expose the virtual node to the Internet as a first-class machine. It should have its own public IP address and should not communicate with the HN in any way.

The HN is CentOS 5, it has eth0 and its public IP address let say 111.111.111.111. The virtual node should be accessible at the address let say 222.222.222.222.

I guess it's a pretty common use case but, the docs are not very clear on how to do it. Any ideas?

TIA.

Slava

Subject: Re: Exposing a virtual node as a public machine
Posted by [vaverin](#) on Fri, 11 Apr 2008 05:26:32 GMT
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Usually all VE traffic going via HN. However there is a possibility for a VE to directly access a physical network adapter by using "vzctl set --netdev add" command.

thank you,
Vasily Averin

Subject: Re: Exposing a virtual node as a public machine
Posted by [simeshev](#) on Fri, 11 Apr 2008 06:48:49 GMT
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Thanks. It is going through HN, indeed.

I am not sure if the proposed solution answers my question. The final set up should be

HN: 111.111.111.111 - public IP
VE1: 222.222.222.222 - public IP
VEN: nnn.nnn.nnn.nnn - public IP

Will just this

vzctl set 1 --ipadd 222.222.222.222 --save

be enough?

Slava

Subject: Re: Exposing a virtual node as a public machine

Posted by [vaverin](#) on Fri, 11 Apr 2008 06:58:03 GMT

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At the first glance it should be enough.
However I don't understand the cause of Your questions.
Do You have some troubles with these settings?

thank you,
Vasily Averin

Subject: Re: Exposing a virtual node as a public machine

Posted by [simeshev](#) on Fri, 11 Apr 2008 07:34:10 GMT

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Actually, we've just tried

vzctl set 1 --ipadd 222.222.222.222 --save

and it works only firewall on the HN is down. If we bring it up the VE is blocked. With firewall up it is not working

I think the question needs to be extended: How do we expose VE with a public IP address with a firewall up on the HN?

Slava

Subject: Re: Exposing a virtual node as a public machine

Posted by [kir](#) on Fri, 11 Apr 2008 08:20:31 GMT

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This is done pretty much the same as assigning a second IP address to the system. In this case, however, you should assign that IP to a container, not to the host system (using `vzctl set CTID --ipadd x.x.x.x --save`). Usually, this is all what's required. Surely this x.x.x.x IP address should be routable to your box (i.e. you can not assign arbitrary addresses -- use only those dedicated to you by your hosting/colocation/Internet provider).

Note that

1. Host system acts as a router for container, so traffic goes through the host system anyway.
2. If you don't want host system to be used as a router, you can use it as a bridge. See <http://wiki.openvz.org/Veth> for details.
3. If you don't want container's traffic to go through host system, you can assign a real network card/interface to that container, as described in this thread by vaverin.

Finally, see <http://wiki.openvz.org/Category:Networking>

Subject: Re: Exposing a virtual node as a public machine

Posted by [kir](#) on Fri, 11 Apr 2008 08:22:54 GMT

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Quote:I think the question needs to be extended: How do we expose VE with a public IP address with a firewall up on the HN?

You need to understand that host system acts as a router for container's traffic. So traffic goes through eth0 and then to venet0 (and back). This is all what's needed to be understood.

Then you know it, set up your firewall as on router, to let the traffic for your container IP to go through.

Subject: Re: Exposing a virtual node as a public machine

Posted by [simeshev](#) on Fri, 11 Apr 2008 08:45:39 GMT

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Kir,

Thank you for the detailed explanation. By any chance, do you have any recommendations on how to set up shorewall on HN for such configuration?

Slava
