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Subject: Unable to talk to outside networks.

Posted by [Aravind Gottipati](#) on Mon, 03 Dec 2007 21:15:56 GMT

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Hi,

We have quite a few private networks and need VEs to talk to them. The openvz HN has one bonded interface (bond0) and a bunch of virtual interfaces (bond0.60, bond0.81 etc) on each of these networks (setup as vlans). I have a bunch of real servers sitting on the 10.2.81/24 and the 10.2.74/24 subnets. These servers can talk to each other. The HN itself has an ip of 10.2.81.92 and can talk to servers in the 10.2.74/24 subnets

I have a VE sitting in the 10.2.81/24 network with an ip of 10.2.81.101. This server can ping and talk to other servers in the 10.2.81/24 network. However, it is unable to talk to anything in the 10.2.74/24 network. With tcpdump, I see the requests go out on the HN and the responses coming in to the virtual interface (bond0.81) on the HN. However, it appears that none of these packets make it back to the VE. I have verified the appropriate sysctl parameters are setup. Forwarding is enabled and there are no firewall rules (in iptables). I looked at some basic debugging (with help from the irc chanel) and I see that the FORWARD policy packet count doesn't seem to go up.

What information should I be looking at to figure this out or what can I provide to help debug this.

Thank you,

Aravind.

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Subject: Re: Unable to talk to outside networks.

Posted by [Aravind Gottipati](#) on Mon, 03 Dec 2007 21:55:59 GMT

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On Mon, Dec 03, 2007 at 01:15:56PM -0800, Aravind Gottipati wrote:

> What information should I be looking at to figure this out or what can  
> I provide to help debug this.

I should have mentioned the specs on the machines. The HN is running rhel5 with the 2.6.18-8.1.15.el5.028stab049.1 kernel. The VEs are running rhel5 as well. The network interfaces in the VE are all venet devices.

Thank you,

Aravind.

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Subject: Re: Unable to talk to outside networks.  
Posted by [vaverin](#) on Wed, 05 Dec 2007 12:54:51 GMT  
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Dear Aravind,  
as far as I understand You see replies on external interface (bond0). But are you seen these packets on venet interface (I mean on HW-node side)?  
Could You please give me acces to Your node (via PM)?

thank you,  
Vasily Averin

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Subject: Re: Unable to talk to outside networks.  
Posted by [vaverin](#) on Wed, 05 Dec 2007 13:06:04 GMT  
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If pakets are not visible on venet intarface -- it looks like routing issue. Could you please check your routing rules ?  
could you please show output of the following command:  
ip route get 10.2.81.101 from 10.2.74/24

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Subject: Re: Re: Unable to talk to outside networks.  
Posted by [Aravind Gottipati](#) on Wed, 05 Dec 2007 16:50:38 GMT  
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On Dec 5, 2007 5:06 AM, vaverin <[vvs@sw.ru](mailto:vvs@sw.ru)> wrote:  
> If pakets are not visible on venet intarface -- it looks like routing issue. Could you please check your routing rules ?  
> could you please show output of the following command:  
> ip route get 10.2.81.101 from 10.2.74/24

The routing on the HN side seems to make sense. I was able to get stuff to work using an ugly bridge setup on the machine. Since the original machine is working, I didn't want to disturb it. I replicated the old setup on a different machine. I can get you access to this machine, I will be logged on the freenode chanel as aravind. Please find me there and we can go from there.

Aravind.

Here is the output of the command.

>From the HN:

```
[root@dm-openvz01 ~]# ip route get 10.2.81.102 from 10.2.74/24
10.2.81.102 from 10.2.74.0 dev venet0
    cache mtu 1500 advmss 1460 hoplimit 64
[root@dm-openvz01 ~]#
```

>From the VE:

```
[root@ml-app02 /]# ip route get 10.2.81.102 from 10.2.74/24
local 10.2.81.102 from 10.2.74.0 dev lo
    cache <local> mtu 16436 advmss 16396 hoplimit 64
[root@ml-app02 /]#
```

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Subject: Re: Re: Unable to talk to outside networks.

Posted by [Aravind Gottipati](#) on Wed, 05 Dec 2007 17:05:23 GMT

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On Dec 5, 2007 4:54 AM, vaverin <vvs@sw.ru> wrote:

> Dear Aravind,

> as far as I understand You see replies on external interface (bond0). But are you seen these packets on venet interface (I mean on HW-node side)?

> Could You please give me acces to Your node (via PM)?

I packets make their way back to bond0.81 (which is the right interface), but I don't see anything on the venet0 interface. So, for some reason, they are not being forwarded from bond0.81 to venet0 (on the HN). There are no firewalling rules in between.

Aravind.

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