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Subject: Multicast client can't see traffic inside the virtual machine

Posted by [danielcamara](#) on Tue, 17 Jul 2007 10:36:29 GMT

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Hi people I don't know what, but for sure something I am doing wrong .

I have the following configuration :

```

+=====+ +=====+
| Multicast app | | Multicast app |
++=|  Server  | |  Client  |
|| +-----+ +-----+
|| | eth0  | | eth0  |<==++
|| +-----+ +-----+ || | | | |
|| | Virtual Machine | | Virtual Machine | ||
|| | 104  | | 105  | ||
|| +=====+ +=====+ ||
VV  |          |          ||
--||-----||---
|| |          |          XXXX
|| +-----+ +-----+ ||
++===> | veth104.0 |          | veth105.0 | ++=>=+
++ +-----+ +-----+ ||
|| A          A  || | |
|| |          |  ||
|| | +=====+ |  ||
++===> +----| vzbr0 |----+ ==>=++
+-----+
| eth0  |
+-----+
| Real Machine |
+=====+
```

I have a multicast application that works with broadcast on the address 224.0.0.131. I manage to create the above architecture and pings to both machines, from both machines, work. The three machines, the two virtual and the real one, are in the same network. When I ping the broadcast address, all three machines answer, no problem.

However, when I start the multicast application, in the server, the messages do not reach the eth0 of the client. If I put a tcpdump I can see the messages arriving even at the veth105.0, but not at the eth0 of the Client. Any one has any idea? I followed the how to at <http://wiki.openvz.org/Veth>. I searched through the Internet a little and found that the problem could be in the redirection, so in plus I enabled `/proc/sys/net/ipv4/conf/*/accept_redirects` and `/proc/sys/net/ipv4/conf/*/send_redirects`, and disabled `/proc/sys/net/ipv4/icmp_echo_ignore_all` and `/proc/sys/net/ipv4/icmp_echo_ignore_broadcasts` in both, Real Machine and Client machines. However this also didn't work.

Sorry for bother... but I really must this working and it seems to be so close... seems to be just a

configuration or some thing like that, but I really don't have any guesses and I couldn't find more information. Any guesses are welcomed

Best regards...

Daniel Camara

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Subject: Re: Multicast client can't see traffic inside the virtual machine

Posted by [fcoiffie](#) on Thu, 19 Jul 2007 09:51:36 GMT

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In fact, there were a bug in the OpenVZ kernel about multicast traffic. This problem was recently solved (begin of June). You can found it in the Git repository.

Normally, it should be in the next kernel release : 2.6.20-ovz008.1

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Subject: Re: Multicast client can't see traffic inside the virtual machine

Posted by [Vasily Tarasov](#) on Thu, 19 Jul 2007 10:04:04 GMT

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What kernel version do you use?

The problem with multicasts was fixed in 028stab034 kernel...

Vasily

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Subject: Re: Multicast client can't see traffic inside the virtual machine

Posted by [danielcamara](#) on Thu, 19 Jul 2007 12:14:31 GMT

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On the real machine:

```
> uname -a
```

```
Linux scoubidou 2.6.18-028stab033.1-ovz-enterprise #1 SMP Thu May 31 04:04:19 CEST 2007  
i686 GNU/Linux
```

Well it seems that can be this I will try and afterwards I will put the result here

Thanks to you both,

Daniel

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Subject: Re: Multicast client can't see traffic inside the virtual machine

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Posted by [danielcamara](#) on Thu, 19 Jul 2007 14:58:34 GMT

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Yes it was the Open vz version sorry for that .

However, without enabling the send\_redirects and disabling the icmp\_echo\_ignore\_all and icmp\_echo\_ignore\_broadcasts, it doesn't work. I don't know if the redirect in all interfaces is needed, I didn't have time to test it yet, but any way, at least in this way it works . Could be interesting to add some thing like this at the <http://wiki.openvz.org/Veth> wiki page:

```
[host-node]# enable () { for file in $@; do echo $file; echo 1 > $file; done }
[host-node]# enable /proc/sys/net/ipv4/conf/*/send_redirects
[host-node]# cat 0 > /proc/sys/net/ipv4/icmp_echo_ignore_all
[host-node]# cat 0 > /proc/sys/net/ipv4/icmp_echo_ignore_broadcasts
```

The problem is that I don't know if this is fine for every case, it even maybe cause some trouble to some one. I don't know, what do you think?

Best regards, and thanks again guys, I would get stuck there for a loooooong time prior than thinking in update the kernel

Daniel

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