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

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

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

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

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

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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 looooong time prior than thinking in update the kernel

        Daniel