Subject: Problems with multicast between two VEs
Posted by fernandomm on Wed, 18 Nov 2009 12:59:34 GMT
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Hello,

I need to setup multicast between two VEs on different HN. I read other posts on forum where they mention that you have to use bridge (veth and not venet).

So, after configuring it, i can only use multicast from a HN to a VE. But i can't use from a VE to HN or from a VE to other VE.

Any ideas of what i can do?

My current configuration:

HN1 - ifconfig:

```
eth0      Link encap:Ethernet  HWaddr 00:14:4f:20:a4:9c
          inet6 addr: fe80::214:4fff:fe20:a49c/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:204459 errors:0 dropped:0 overruns:0 frame:0
          TX packets:135769 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:17659469 (16.8 MiB)  TX bytes:17230927 (16.4 MiB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:16436  Metric:1
          RX packets:17461 errors:0 dropped:0 overruns:0 frame:0
          TX packets:17461 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:4918796 (4.6 MiB)  TX bytes:4918796 (4.6 MiB)

venet0    Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
          UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1
          RX packets:52 errors:0 dropped:0 overruns:0 frame:0
          TX packets:43 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:3311 (3.2 KiB)  TX bytes:3390 (3.3 KiB)

veth101.0 Link encap:Ethernet  HWaddr 00:18:51:0e:30:3a
          inet6 addr: fe80::218:51ff:fe0e:303a/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:474 errors:0 dropped:0 overruns:0 frame:0
          TX packets:5652 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
```

RX bytes:24856 (24.2 KiB) TX bytes:272558 (266.1 KiB)

vmbr0 Link encap:Ethernet HWaddr 00:14:4f:20:a4:9c
inet addr:192.168.100.11 Bcast:192.168.100.255 Mask:255.255.255.0
inet6 addr: fe80::214:4fff:fe20:a49c/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:199375 errors:0 dropped:0 overruns:0 frame:0
TX packets:129945 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:14358033 (13.6 MiB) TX bytes:16791230 (16.0 MiB)

HN1 - VE1 configuration:

NETIF="ifname=eth0,mac=00:18:51:77:98:ED,host_ifname=veth101.0,host_mac=00:18:51:0E:30:3A"

HN1 - VE1 ifconfig:

```
# ifconfig
eth0      Link encap:Ethernet  HWaddr 00:18:51:77:98:ed
          inet addr:192.168.100.101  Bcast:192.168.100.255  Mask:255.255.255.0
          inet6 addr: fe80::218:51ff:fe77:98ed/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:6342 errors:0 dropped:0 overruns:0 frame:0
          TX packets:519 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:306409 (299.2 KiB)  TX bytes:26596 (25.9 KiB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:16436  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)
```

HN1 - VN1 route -n:

```
# route -n
Kernel IP routing table
Destination     Gateway         Genmask         Flags Metric Ref    Use Iface
192.168.100.0   0.0.0.0         255.255.255.0   U     0      0        0 eth0
224.0.0.0       0.0.0.0         240.0.0.0       U     0      0        0 eth0
0.0.0.0         192.168.100.1   0.0.0.0         UG    0      0        0 eth0
```

For HN2 and VE2, the configuration is the same, just with different IPs and mac address.

My tests:

Run on VE1

ssmpingd

Run on VE2

ssmping 192.168.100.101
Failed to join multicast channel: Invalid argument
errno=22

I appreciate any kind of help for this

Thanks!

Subject: Re: Problems with multicast between two VEs
Posted by fernandomm on Fri, 20 Nov 2009 15:53:16 GMT
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I have isolated the problem. It is caused when using proxmox kernels.

Using a Debian openvz kernel, fix the problem.

Subject: Re: Problems with multicast between two VEs
Posted by maratrus on Fri, 20 Nov 2009 16:43:04 GMT
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Hello Fernando,

I have been trying to reproduce your situation but was unable to do it. Everything is working just fine on my system. I was ready to answer you but noticed that the problem had already been solved
The only thing I would like to add is that ip address should be assigned to physical network interface not to the bridge. It is an OpenVZ peculiarity

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