Subject: Problems receiving multicast data in VE (using IGMP snooping)
Posted by ngoelles on Wed, 10 Oct 2007 12:43:26 GMT

View Forum Message <> Reply to Message

Hello,

I am using the following setup

kernel: 2.6.22-ovz003.2

Two identical VEs running
VE101, hostname s1951
VE102, hostname s1952

VE101(eth0) links to VE0(veth101.0)
VE102(eth0) links to VE0(veth102.0)

In VE0 I linked VE0(veth101.0), VE0(veth102.0) and VE0(eth0), which is connected to my LAN.

My switch is configured for IGMP snooping so it will only transmit multicast data for which my application has JOINED the multicast address using IGMP.

On VE101, I start a multicast receiver, listening on address
239.255.255.42

From another node on the network, I am transmitting packages on this address.

I don't receive the messages on VE101, nor on VE0 (verfified using wireshark)

The multicast address are correctly registered on VE101(eth0), as shown from the following output:

root@s1951# ip maddr show
1: lo

 inet 224.0.0.1

 inet6 ff02::1
3: venet0

 inet6 ff02::1
5: eth0

 link 01:00:5e:7f:ff:2a

 link 33:33:ff:77:8f:a9

 link 01:00:5e:00:00:01

link 33:33:00:00:00:01

inet 239.255.255.42

inet 224.0.0.1

inet6 ff02::1:ff77:8fa9

inet6 ff02::1

Look at 5: eth0 inet 239.255.255.42

But on VE0(veth101.0), the multicast addresses are not registered. Is this normal ?

```
root@localhost# ip maddr show
1: venet0
 inet  224.0.0.1
 inet6 ff02::1
2: lo
 inet  224.0.0.1
 inet6 ff02::1
3: veth101.0
 link  33:33:ff:b2:a0:2f
 link  01:00:5e:00:00:01
 link  33:33:00:00:00:01
 inet  224.0.0.1
 inet6 ff02::1:ffb2:a02f
 inet6 ff02::1
4: eth0
 link  33:33:ff:f3:35:05
 link  01:00:5e:00:00:01
 link  33:33:00:00:00:01
 inet  224.0.0.1
 inet6 ff02::1:fff3:3505
 inet6 ff02::1
5: veth102.0
 link  33:33:ff:c1:70:88
 link  01:00:5e:00:00:01
 link  33:33:00:00:00:01
 inet  224.0.0.1
 inet6 ff02::1:ffc1:7088
 inet6 ff02::1
6: eth1
 link  33:33:00:00:00:01
 inet6 ff02::1
8: eth2
 link  33:33:00:00:00:01
```

```
 inet6 ff02::1
10: vzbr0
 link  33:33:ff:f3:35:05
 link  01:00:5e:00:00:01
 link  33:33:00:00:00:01
 inet  224.0.0.1
 inet6 ff02::1:fff3:3505
 inet6 ff02::1
```

If I transmit messages on 239.255.255.42 from VE102, they do arrive at the bridge and on VE101!

So it seems something is wrong in the veth driver with respect to IGMP snooping (multicast group join/drop). Any help would be highly appreciated.