
Subject: MDNS service discovery with VETH interface

Posted by [Daniel Pittman](#) on Mon, 04 Jun 2007 14:09:27 GMT

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G'day. I have a VE that I set up using a VETH interface rather than a VENET interface so I could test ZeroConf service discovery and other broadcast/multicast protocols.

I have the VETH device bridged with the physical Ethernet device on the hardware node and can see standard broadcast packets without any problem.

I don't see the multicast packets cross the interface boundary though; it is my belief that the VETH device doesn't correctly handle the packets being sent to the Ethernet MAC '01:00:5e:00:00:fb'

This is running kernel '2.6.18-028stab033.1-ovz'

Have I missed some critical step in getting multicast services working with the VETH device or so?

I think, reading the veth.c source, that the problem is in the veth_xmit function on line 305 in the current HEAD in get -- the code tests:

```
if (!is_broadcast_ether_addr(((struct ethhdr *)skb->data)->h_dest)) {
```

This should probably also pass a multicast packet through to the VE, not just the broadcast packets. That way multicast traffic is seen inside the system.

The appropriate test would be 'is_multicast_ether_addr(...)' in addition to the broadcast.

I have not supplied a patch here because I don't know what, if any, extra implications permitting multicast packets in have -- or if there is some other mechanism that I have missed that would cause them to pass through as expected.

Regards,
Daniel

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