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Subject: Re: Quagga inside a VE

Posted by [seanfulton](#) on Mon, 11 Feb 2008 12:35:29 GMT

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Here is some more info. Again, any help on this issue would be greatly appreciated:

I have set up an IP on eth0 inside the VE with a static route to it and am able to connect to it correctly, and from within the VE out to the internet, so all is working correctly from that perspective. Here is the problem:

I have quagga 99.9 inside the VE. It says it is announcing its routes via RIP over the eth0 link. using tcpdump -vvv on the host node (HN), I can actually see the RIP announcements coming over the pipe. Unfortunately, the routes are not being inserted into the routing table on the host node, and routes announced by the host node are not being picked up within the VE. The HN does not show any of the VE's routes in the log file or when doing sh ip ro, same with the VE. Forwarding is on on both the HN and VE.

Currently the IP address I am trying to announce is on eth0:1 inside the VE, but I have used lo:0 as well with no luck. Also, if I put a static route on the HN to a virtual IP address inside the VE, it works. It's just the RIP announcement that is not happening.

ripd.conf in VE:

```
interface eth0
no ip rip authentication mode
```

```
router rip
version 2
network 74.201.36.0/22
network 74.201.40.0/22
redistribute kernel
redistribute static
redistribute connected
```

zebra.conf in VE:

```
! Interface's description.
!
interface lo
! description test of desc.
```

```
interface eth0
description ourlan
```

Relevant zebra.log on VE:

```
2008/02/10 09:20:34 RIP: update timer fire!
2008/02/10 09:20:34 RIP: SEND UPDATE to eth0 ifindex 5
2008/02/10 09:20:34 RIP: multicast announce on eth0
```

```

2008/02/10 09:20:34 RIP: update routes on interface eth0 ifindex 5
2008/02/10 09:20:34 RIP: rip_send_packet 74.201.38.7 > 224.0.0.9 (eth0)
2008/02/10 09:20:34 RIP: SEND to 224.0.0.9.520
2008/02/10 09:20:34 RIP: SEND RESPONSE version 2 packet size 44
2008/02/10 09:20:34 RIP: 0.0.0.0/0 -> 0.0.0.0 family 2 tag 0 metric 1
2008/02/10 09:20:34 RIP: 74.201.40.7/32 -> 0.0.0.0 family 2 tag 0 metric 1
2008/02/10 09:20:34 RIP: multicast announce on eth0
2008/02/10 09:20:34 RIP: update routes on interface eth0 ifindex 5
2008/02/10 09:20:34 RIP: rip_send_packet 74.201.40.7 > 224.0.0.9 (eth0)
2008/02/10 09:20:34 RIP: SEND to 224.0.0.9.520
2008/02/10 09:20:34 RIP: SEND RESPONSE version 2 packet size 44
2008/02/10 09:20:34 RIP: 0.0.0.0/0 -> 0.0.0.0 family 2 tag 0 metric 1
2008/02/10 09:20:34 RIP: 74.201.38.7/32 -> 0.0.0.0 family 2 tag 0 metric 1
2008/02/10 09:20:34 RIP: ignore packet comes from myself
2008/02/10 09:20:34 RIP: ignore packet comes from myself

```

```

ripd.conf on the HN:
interface eth0
! no ip rip split-horizon
no ip rip authentication mode
!
interface eth1
! no ip rip split-horizon
no ip rip authentication mode
!

```

```

interface veth6007.0
no ip rip authentication mode

```

```

router rip
version 2
redistribute kernel
redistribute connected
redistribute static
network 74.201.36.0/22
network 74.201.40.0/22
network eth0
network eth1
network veth6007.0
!

```

Output of tcpdump on the HN (You can see that it is getting the rip announcement OK.

```
[root@web1 ~]# tcpdump -vvv -i veth6007.0
```

```
tcpdump: WARNING: veth6007.0: no IPv4 address assigned
```

```
tcpdump: listening on veth6007.0, link-type EN10MB (Ethernet), capture size 96 bytes
```

```
09:23:10.883604 IP (tos 0x0, ttl 1, id 0, offset 0, flags [DF], proto: UDP (17), length: 72)
```

```
74.201.38.7.router > RIP2-ROUTERS.MCAST.NET.router: [udp sum ok]
```

RIPv2, Response, length: 44, routes: 2

AFI: IPv4: 0.0.0.0/0 , tag 0x0000, metric: 1, next-hop: self

AFI: IPv4: 74.201.40.7/32, tag 0x0000, metric: 1, next-hop: self

0x0000: 0202 0000 0002 0000 0000 0000 0000 0000

0x0010: 0000 0000 0000 0001 0002 0000 4ac9 2807

0x0020: ffff ffff 0000 0000 0000 0001

09:23:11.194741 IP (tos 0x0, ttl 1, id 0, offset 0, flags [DF], proto: UDP (17), length: 72)

74.201.40.7.router > RIP2-ROUTERS.MCAST.NET.router: [udp sum ok]

RIPv2, Response, length: 44, routes: 2

AFI: IPv4: 0.0.0.0/0 , tag 0x0000, metric: 1, next-hop: self

AFI: IPv4: 74.201.38.7/32, tag 0x0000, metric: 1, next-hop: self

0x0000: 0202 0000 0002 0000 0000 0000 0000 0000

0x0010: 0000 0000 0000 0001 0002 0000 4ac9 2607

0x0020: ffff ffff 0000 0000 0000 0001