
Subject: VLAN packets not going through
Posted by [cyu021](#) on Wed, 24 Jun 2009 23:22:54 GMT
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Dear all,

I try to setup a VLAN in a VE and enable the VE to communicate with other PCs/servers in same VLAN but in outside world.

So the network configuration should look like this:

```
++-WORLD--+ ++-MY_PC--+ +---VE----+
|VID=11's |---|eth0   | |   |
|PCs      | |veth101.0|---|eth0   |
|servers  | +-----+ |eth0.11 |
+-----+          +-----+
```

I have the following configurations:

VE's ip route:

```
10.0.0.0/24 dev eth0.11 proto kernel scope link src 10.0.0.101
default dev eth0 scope link
```

MY_PC's ip route:

```
192.168.0.101 dev veth101.0 scope link
192.168.19.0/24 dev eth0 proto kernel scope link src 192.168.19.136
default via 192.168.19.2 dev eth0
```

However, routing of the tagged packets stops at MY_PC's veth101.0.

Following is the tcpdump log on MY_PC, I monitor both MY_PC's veth101.0 and eth0:

Tagged packets do arrive MY_PC's veth101.0

```
/usr/sbin/tcpdump -ne -i veth101.0 -xx not port 22
tcpdump: WARNING: veth101.0: no IPv4 address assigned
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on veth101.0, link-type EN10MB (Ethernet), capture size 96 bytes
03:20:24.366526 00:18:51:50:ec:b7 > Broadcast, ethertype 802.1Q (0x8100), length 46: vlan 11,
p 0, ethertype ARP, arp who-has 10.0.0.10 tell 10.0.0.101
    0x0000: ffff ffff ffff 0018 5150 ecb7 8100 000b
    0x0010: 0806 0001 0800 0604 0001 0018 5150 ecb7
    0x0020: 0a00 0065 0000 0000 0000 0a00 000a
03:20:25.367267 00:18:51:50:ec:b7 > Broadcast, ethertype 802.1Q (0x8100), length 46: vlan 11,
p 0, ethertype ARP, arp who-has 10.0.0.10 tell 10.0.0.101
    0x0000: ffff ffff ffff 0018 5150 ecb7 8100 000b
    0x0010: 0806 0001 0800 0604 0001 0018 5150 ecb7
    0x0020: 0a00 0065 0000 0000 0000 0a00 000a
```

```
03:20:26.368325 00:18:51:50:ec:b7 > Broadcast, ethertype 802.1Q (0x8100), length 46: vlan 11,
p 0, ethertype ARP, arp who-has 10.0.0.10 tell 10.0.0.101
  0x0000: ffff ffff ffff 0018 5150 ecb7 8100 000b
  0x0010: 0806 0001 0800 0604 0001 0018 5150 ecb7
  0x0020: 0a00 0065 0000 0000 0000 0a00 000a
```

Tagged packets never arrive MY_PC's eth0 and passed to WORLD.

```
/usr/sbin/tcpdump -ne -i eth0 -xx not port 22
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on eth0, link-type EN10MB (Ethernet), capture size 96 bytes
```

According to MY_PC's routing table, I don't set any rule for the packets to destination 10.0.0.0/24, so they should be routed to the next stop by default gateway (MY_PC's eth0).

Please advise.

Subject: Re: VLAN packets not going through
Posted by [maratrus](#) on Mon, 29 Jun 2009 07:26:05 GMT
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Hello,

the main problem I suppose is that none of the MY_PC's interfaces know about VLAN existence. To make a route decision on MY_PC's side we have to pick out a VLAN tag of a network packet but it's impossible because MY_PC knows nothing about VLAN existence so the network packet is dropped.

I would recommend to read the following article which might be useful in your case.

http://en.gentoo-wiki.com/wiki/OpenVZ_VLANs
