
Subject: VLAN not working in VE? <SOLVED>

Posted by [januszzz](#) on Mon, 13 Oct 2008 12:23:38 GMT

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Hi,

I got 2 interfaces on HE and wanted one for management and the second for VE's (I need several VLANs there).

So I setup HE interfaces like this (fat trimmed)

```
eth0   Link encap:Ethernet HWaddr 00:21:5e:26:b3:cc
       inet addr:126.66.64.151 Bcast:126.66.65.255 Mask:255.255.254.0
```

```
eth1   Link encap:Ethernet HWaddr 00:21:5e:26:b3:ce
       inet6 addr: fe80::221:5eff:fe26:b3ce/64 Scope:Link
eth1.20 Link encap:Ethernet HWaddr 00:21:5e:26:b3:ce
       inet6 addr: fe80::221:5eff:fe26:b3ce/64 Scope:Link
```

```
eth1.980 Link encap:Ethernet HWaddr 00:21:5e:26:b3:ce
        inet6 addr: fe80::221:5eff:fe26:b3ce/64 Scope:Link
```

```
venet0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
       UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1
       RX packets: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)
```

(lo, sit0, other VLANs ommitted).

Then I added the vlan to VE like this:

```
vzctl set 110 --netif_add vlan980 --save
```

Then I setup the VE settings like this:

```
(snippet from 110.conf)
IP_ADDRESS="10.0.0.2"
NETIF=" ifname=vlan980,mac=00:18:51:F6:CD:87,host_ifname=veth110.980
,host_mac=00:18:51:70:E9:7F "
```

And the problem is I still cannot access the other ip on the network (PING 10.0.0.1 (10.0.0.1) 56(84) bytes of data.

From 10.0.0.2 icmp_seq=1 Destination Host Unreachable)! How to debug this??

BTW. when I assign an address from the VLAN to eth1.980 on HN it works, but VE - its not.

Thanks!

Subject: Re: VLAN not working in VE?
Posted by [maratrus](#) on Mon, 13 Oct 2008 15:13:48 GMT
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Hello,

you should configure eth0 interface inside VE the same way you've done it on your HN.

```
# vzctl set 110 --netif_add eth0 --save (So, eth0 interface must appear inside VE).  
Then enter your VE and configure appropriate vlan just like on the HN.
```

Subject: Re: VLAN not working in VE?
Posted by [januszzz](#) on Mon, 13 Oct 2008 18:13:29 GMT
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Yeah that sounds cool, but why the f%\$!k I need to add eth0??

And it still doesn't work.

I added eth1 to VE like you said, I got eth1 inside VE. I configured the VLAN 980, set the ip and still nothing:

```
eth1    Link encap:Ethernet HWaddr 00:18:51:44:65:A8  
        inet6 addr: fe80::218:51ff:fe44:65a8/64 Scope:Link  
        UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0  
        TX packets:24 errors:0 dropped:0 overruns:0 carrier:0  
        collisions:0 txqueuelen:0  
        RX bytes:0 (0.0 b) TX bytes:1176 (1.1 Kb)
```

```
eth1.980 Link encap:Ethernet HWaddr 00:18:51:44:65:A8  
        inet addr:10.0.0.3 Bcast:10.0.0.255 Mask:255.255.255.0  
        inet6 addr: fe80::218:51ff:fe44:65a8/64 Scope:Link  
        UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0  
        TX packets:18 errors:0 dropped:0 overruns:0 carrier:0  
        collisions:0 txqueuelen:0  
        RX bytes:0 (0.0 b) TX bytes:1044 (1.0 Kb)
```

```
ping 10.0.0.1  
PING 10.0.0.1 (10.0.0.1) 56(84) bytes of data.  
From 10.0.0.3 icmp_seq=2 Destination Host Unreachable
```

I just think this is impossible, after spending a whole day on this I get use to that this is just fake that OpenVZ ever supported VLANs? please admit that this is not true...

Subject: Re: VLAN not working in VE?

Posted by [januszzz](#) on Mon, 13 Oct 2008 18:54:47 GMT

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OK, I.m posting all relevant info:

2.6.18-028stab056

110.conf:

```
NETIF=" ifname=eth1,mac=00:18:51:44:65:A8,host_ifname=veth110.1,host
_mac=00:18:51:42:20:9A "
```

Networking in HE:

```
eth0  Link encap:Ethernet HWaddr 00:21:5e:26:b3:cc
      inet addr:126.66.64.151 Bcast:126.66.65.255 Mask:255.255.254.0
      inet6 addr: fe80::221:5eff:fe26:b3cc/64 Scope:Link
      UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
      RX packets:3880 errors:0 dropped:0 overruns:0 frame:0
      TX packets:1188 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:1000
      RX bytes:319773 (312.2 KiB) TX bytes:297744 (290.7 KiB)
      Interrupt:90 Memory:ce000000-ce011100
```

```
eth1  Link encap:Ethernet HWaddr 00:21:5e:26:b3:ce
      inet6 addr: fe80::221:5eff:fe26:b3ce/64 Scope:Link
      UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
      RX packets:2257 errors:0 dropped:0 overruns:0 frame:0
      TX packets:24 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:1000
      RX bytes:182530 (178.2 KiB) TX bytes:2040 (1.9 KiB)
      Interrupt:169 Memory:ca000000-ca011100
```

```
eth1.20 Link encap:Ethernet HWaddr 00:21:5e:26:b3:ce
      inet6 addr: fe80::221:5eff:fe26:b3ce/64 Scope:Link
      UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
      RX packets:2258 errors:0 dropped:0 overruns:0 frame:0
      TX packets:6 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:0
      RX bytes:132922 (129.8 KiB) TX bytes:468 (468.0 B)
```

```
eth1.980 Link encap:Ethernet HWaddr 00:21:5e:26:b3:ce
      inet6 addr: fe80::221:5eff:fe26:b3ce/64 Scope:Link
      UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
```

RX packets:1 errors:0 dropped:0 overruns:0 frame:0
TX packets:6 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:46 (46.0 B) TX bytes:468 (468.0 B)

eth1.990 Link encap:Ethernet HWaddr 00:21:5e:26:b3:ce
inet6 addr: fe80::221:5eff:fe26:b3ce/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:1 errors:0 dropped:0 overruns:0 frame:0
TX packets:6 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:46 (46.0 B) TX bytes:468 (468.0 B)

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:52 errors:0 dropped:0 overruns:0 frame:0
TX packets:52 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:3792 (3.7 KiB) TX bytes:3792 (3.7 KiB)

sit0 Link encap:IPv6-in-IPv4
NOARP MTU:1480 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)

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: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)

veth110.1 Link encap:Ethernet HWaddr 00:18:51:42:20:9a
inet6 addr: fe80::218:51ff:fe42:209a/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:12 errors:0 dropped:0 overruns:0 frame:0
TX packets:4 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:792 (792.0 B) TX bytes:244 (244.0 B)

Networking in VE:

eth1 Link encap:Ethernet HWaddr 00:18:51:44:65:A8
inet6 addr: fe80::218:51ff:fe44:65a8/64 Scope:Link

UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:4 errors:0 dropped:0 overruns:0 frame:0
TX packets:12 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:244 (244.0 b) TX bytes:792 (792.0 b)

eth1.980 Link encap:Ethernet HWaddr 00:18:51:44:65:A8
inet addr:10.0.0.3 Bcast:10.0.0.255 Mask:255.255.255.0
inet6 addr: fe80::218:51ff:fe44:65a8/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:6 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:0 (0.0 b) TX bytes:492 (492.0 b)

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)

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: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)

Physical eth1 is connected to trunk port... and it works if I configure it in HE.

What else I can do?

Subject: Re: VLAN not working in VE?
Posted by [maratrus](#) on Tue, 14 Oct 2008 04:00:33 GMT
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- First of all, make sure that you've configured eth0 interface inside VE properly
http://wiki.openvz.org/Veth#Simple_configuration_with_virtual_Ethernet_device

- Then check your routing records inside VE. (make sure that network packets don't leave your VE from venet0 interface.)

- Use tcpdump utility to find out:
* do the packets leave your VE propely

- * do they reach HN
 - * do they leave HN
 - * does the external node respond
 - * does the response reach veth interface on the HN
 - * does the response reach eth* interface inside VE
- (try to ping something and at the same moment run tcpdump on eth* interface inside VE, veth* interface on the HN and eth* interface on the HN)

<http://wiki.openvz.org/VLAN>

Make sure that firewall in the HN/VE allow your VE to communicate with external nodes.

Subject: Re: VLAN not working in VE?

Posted by [januszzz](#) on Tue, 14 Oct 2008 07:02:27 GMT

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- First of all, make sure that you've configured eth0 interface inside VE properly

Now its like in wiki, previously I've used vconfig to add vlan.

- Then check your routing records inside VE. (make sure that network packets don't leave your VE from venet0 interface.)

Its OK: ip r s

```
127.0.0.0/8 via 127.0.0.1 dev lo
```

```
default dev eth0 scope link
```

- Use tcpdump utility to find out:

- * do the packets leave your VE propely

they leave VE,

- * do they reach HN

they reach HE,

- * do they leave HN

I don't know, as I don't have a second node and netadmin is on holiday

<http://wiki.openvz.org/VLAN>

Excuse me, I try to stay positive, but there is no doc in here, those three lines simply doesn't work, either when I try to move venet interface or create new veth in VE. Maybe because I do have two physical interfaces?

Make sure that firewall in the HN/VE allow your VE to communicate with external nodes.
There is no netfilter setup.

I attach screenlog.

File Attachments

1) [screenlog.0](#), downloaded 275 times

Subject: Re: VLAN not working in VE?

Posted by [maratrus](#) on Tue, 14 Oct 2008 07:29:08 GMT

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Quote:

Now its like in wiki, previously I've used vconfig to add vlan.

As far as I can understand from your screenlog you've configured eth0 interface inside VE. Ok, after that you should create vlan interface inside VE via vconfig utility. But you haven't done that.

Subject: Re: VLAN not working in VE?

Posted by [januszzz](#) on Tue, 14 Oct 2008 07:37:46 GMT

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OK, lets try that:

Do I have to configure vlan on physical interface in HE? Do I have to add ip to that interface? I guess answer is yes and no?

So on HE I should have (Gentoo net config):

```
config_eth0=("126.66.64.151 netmask 255.255.254.0")
routes_eth0=("default via 126.66.65.249")
```

```
vlangs_eth1="20 980 990"
config_eth1=( "null" )
```

```
vconfig_eth1=( "set_name_type DEV_PLUS_VID_NO_PAD" )
```

```
config_eth1_980=( "null" )
config_eth1_990=( "null" )
```

Subject: Re: VLAN not working in VE?

Posted by [maratrus](#) on Tue, 14 Oct 2008 07:51:08 GMT

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Quote:

Do I have to configure vlan on physical interface in HE?

No.

I'd like emphasize that we should consider VE as a common machine (at least try to do that). So, if you have a standard machine and eth0 interface on it, what should you do to enable vlan functionality? You should create vlan interface and then do appropriate settings.

The way enabling VLAN inside container can be divided into two steps:

- enable eth0 inside container
- create vlan interface inside container and issue some settings

You've already created eth0 interface inside your VE.
So, you have to pass through the second step.

Subject: Re: VLAN not working in VE?
Posted by [januszzz](#) on Tue, 14 Oct 2008 08:01:18 GMT
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ok, I configured vlan in VE, still nothing. Host unreachable this time.

I'm switching to one NIC only (trunked; although I doubt it would help in this maze).

Subject: Re: VLAN not working in VE?
Posted by [maratrus](#) on Tue, 14 Oct 2008 08:12:44 GMT
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- did you change default route inside VE? (sreenlog shows that it was eth0)
- could you please show tcpdump output? (from inside the VE and from inside the HN)

Subject: Re: VLAN not working in VE?
Posted by [januszzz](#) on Tue, 14 Oct 2008 08:38:23 GMT
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OK....

maybe this will be easier - I have one interface now, with 3 vlans, all interfaces are configured with ip, all works fine. I got this Gentoo VE and want to set up vlans inside.

Have anyone step-by step example of VLAN configuration? Sorry, I'm too dumb to crack it by myself.... (concerning 4 years of running openvz thats strange, but this is how no documentation works...)

Subject: Re: VLAN not working in VE?

Posted by [januszzz](#) on Tue, 14 Oct 2008 09:55:36 GMT

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I'm posting tcpdump (its the same on HN as in VE):

```
11:35:59.979932 IP 10.0.0.3 > 10.0.0.1: ICMP echo request, id 23060, seq 179, length 64
```

```
11:36:00.979954 arp who-has 10.0.0.1 tell 10.0.0.3
```

```
11:36:00.979959 arp reply 10.0.0.1 is-at 00:18:51:3a:d4:5d
```

```
11:36:00.979984 IP 10.0.0.3 > 10.0.0.1: ICMP echo request, id 23060, seq 180, length 64
```

etc. There is no echo reply.

If I configure devices without vlan in VE I can ping HE and VE each other, I suspect that I could ping also remote interface, but there is no vlan so I cant. Its all about those vlans.

Maybe a step-by-step howto for one interface, multiple vlans?

Subject: Re: VLAN not working in VE?

Posted by [januszzz](#) on Tue, 14 Oct 2008 13:03:31 GMT

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- enable eth0 inside container
- create vlan interface inside container and issue some settings

well, I have setup eth0.980 5 minutes since installation of the kernel, but it doesn't work. Kernel IP routing table (HE):

| Destination | Gateway | Genmask | Flags | Metric | Ref | Use | Iface |
|-------------|---------------|-----------------|-------|--------|-----|-----|-----------|
| 10.0.0.2 | 0.0.0.0 | 255.255.255.255 | UH | 0 | 0 | 0 | veth110.0 |
| 126.66.64.0 | 0.0.0.0 | 255.255.254.0 | U | 0 | 0 | 0 | eth0.20 |
| 127.0.0.0 | 0.0.0.0 | 255.0.0.0 | U | 0 | 0 | 0 | lo |
| 0.0.0.0 | 126.66.65.249 | 0.0.0.0 | UG | 0 | 0 | 0 | eth0.20 |

I do all the stuff:

```
echo 1 > /proc/sys/net/ipv4/conf/veth110.0/forwarding
```

```
echo 1 > /proc/sys/net/ipv4/conf/veth110.0/proxy_arp
```

```
echo 1 > /proc/sys/net/ipv4/conf/eth0/forwarding
```

```
echo 1 > /proc/sys/net/ipv4/conf/eth0/proxy_arp
```

And I setup vlan the Gentoo way in VE (so its standard Linux way):

```
vlans_eth0="980"
```

```
config_eth0=( "null" )
```

```
vconfig_eth0=( "set_name_type DEV_PLUS_VID_NO_PAD" )
```

```
config_eth0_980=( "10.0.0.2 netmask 255.255.255.0" )
```

i get these routes:

```
10.0.0.0    0.0.0.0    255.255.255.0 U  0  0    0 eth0.980
127.0.0.0   127.0.0.1   255.0.0.0    UG 0  0    0 lo
```

this doesn't work, (Destination Host Unreachable) so packets do not reach HE.

If I do in VE:

```
ifconfig eth0 0
ip r a default dev eth0
```

it doesn't work either (sorry! this doesn't work, but ping goes to HE, I forgot to remove previous route!).

I do in VE:

```
cat /proc/net/vlan/config
VLAN Dev name | VLAN ID
Name-Type: VLAN_NAME_TYPE_RAW_PLUS_VID_NO_PAD
eth0.980     | 980 | eth0
```

I do in HE:

```
cat /proc/net/vlan/config
VLAN Dev name | VLAN ID
Name-Type: VLAN_NAME_TYPE_RAW_PLUS_VID_NO_PAD
eth0.20       | 20 | eth0
```

Its ok, because I'm using vlan 20 for accessing the HE.

I'm loosing the second day on this....

Subject: Re: VLAN not working in VE?

Posted by [maratrus](#) on Tue, 14 Oct 2008 13:13:53 GMT

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Quote:

Do I have to configure vlan on physical interface in HE?

Quote:

No.

Oops, it seems that was a wrong answer.

a packet leaves VE from eth0.980 interface then it reaches veth110.0 interface and then according your routing table on the HN goes to eth0.20 but it's wrong way. I'm terribly sorry. You

should direct the packet through .980 vlan on the HN.

Subject: Re: VLAN not working in VE?

Posted by [januszzz](#) on Wed, 15 Oct 2008 13:18:40 GMT

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OK, partly works (first vlan i VE works ok).

Now I'm trying to add second VLAN to veth device and it goes ok, but packets are not going back to VE. Why?

In VE 130 I've got two vlans added:

```
eth0.20 Link encap:Ethernet HWaddr 00:18:51:DB:4E:F2
        inet addr:126.66.64.158
eth1.980 Link encap:Ethernet HWaddr 00:18:51:05:AF:37
        inet addr:10.0.0.5 Bcast:10.0.0.255 Mask:255.255.255.0
```

Routes are set OK iv VE:

Kernel IP routing table

| Destination | Gateway | Genmask | Flags | Metric | Ref | Use | Iface |
|-------------|-----------|---------------|-------|--------|-----|-----|-------|
| 10.0.0.0 | 0.0.0.0 | 255.255.255.0 | U | 0 | 0 | 0 | eth0 |
| 126.66.64.0 | 0.0.0.0 | 255.255.254.0 | U | 0 | 0 | 0 | eth0 |
| 127.0.0.0 | 127.0.0.1 | 255.0.0.0 | UG | 0 | 0 | 0 | lo |

And routes in HN aore set OK:

Kernel IP routing table

| Destination | Gateway | Genmask | Flags | Metric | Ref | Use | Iface |
|---------------|---------------|-----------------|-------|--------|-----|-----|-----------|
| 10.0.0.5 | 0.0.0.0 | 255.255.255.255 | UH | 0 | 0 | 0 | veth130.0 |
| 126.66.64.158 | 0.0.0.0 | 255.255.255.255 | UH | 0 | 0 | 0 | veth130.0 |
| 10.0.0.2 | 0.0.0.0 | 255.255.255.255 | UH | 0 | 0 | 0 | veth110.0 |
| 10.0.1.2 | 0.0.0.0 | 255.255.255.255 | UH | 0 | 0 | 0 | veth130.0 |
| 10.0.0.0 | 0.0.0.0 | 255.255.255.0 | U | 0 | 0 | 0 | eth0.980 |
| 10.0.1.0 | 0.0.0.0 | 255.255.255.0 | U | 0 | 0 | 0 | eth0.990 |
| 126.66.64.0 | 0.0.0.0 | 255.255.254.0 | U | 0 | 0 | 0 | eth0.20 |
| 127.0.0.0 | 0.0.0.0 | 255.0.0.0 | U | 0 | 0 | 0 | lo |
| 0.0.0.0 | 126.66.65.249 | 0.0.0.0 | UG | 0 | 0 | 0 | eth0.20 |

Packets goes fine to HN, but not going back (tcpdump outpup from HN):

```
15:08:32.501126 IP 126.66.64.158 > 10.0.0.1: ICMP echo request, id 45655, seq 14, length 64
```

Any ideas how to define source ip on VE?

BTW: I can ping interface in vlan on HN (ping 10.0.0.254 issued in VE is ok, but to 10.0.0.1 - which is gateway - its not working). Ping to 10.0.0.1 from HN - it works.

Subject: Re: VLAN not working in VE?
Posted by [maratrus](#) on Thu, 16 Oct 2008 07:01:25 GMT
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I think the routing table inside VE is wrong.

It should be
"""

```
10.0.0.0 0.0.0.0 255.255.255.0 U 0 0 0 eth1.980
126.66.64.0 0.0.0.0 255.255.254.0 U 0 0 0 eth0.20
"""
```

Please, try to change it. Does this help?

Subject: Re: VLAN not working in VE?
Posted by [januszzz](#) on Thu, 16 Oct 2008 08:34:01 GMT
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no, it doesn't help: why I would want to set up route through vlan interface now; I was said that I shouldn't and it really works through eth0 not eth0.<vlanid> (of course - only one works then...)

Now I get immortal "destination host unreachable", on two vlans

I thought its worth new thread so I marked this solved and started new one (there are different ips and vlans but thats the same, I got several tens of vlans to test on)

Subject: Re: VLAN not working in VE?
Posted by [januszzz](#) on Thu, 16 Oct 2008 08:36:31 GMT
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and what about the kernel itself? maybe there is some newer than mine which is ready to production? I took 2.6.18-028stab056.

Subject: Re: VLAN not working in VE?
Posted by [maratrus](#) on Thu, 16 Oct 2008 08:55:14 GMT
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Quote:

why I would want to set up route through vlan interface now

because you should mark a packet as belonging to vlan interface.
If a packet pass eth0 interface how it could be marked?

Quote:

15:08:32.501126 IP 126.66.64.158 > 10.0.0.1: ICMP echo request, id 45655, seq 14, length 64

why do you expect 10.0.0.1 answer to the ip from different that 10.0.0.0/24 network?

Subject: Re: VLAN not working in VE?

Posted by [januszzz](#) on Thu, 16 Oct 2008 09:05:29 GMT

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well, I understand that, that is why I obssecically did set routes through vlan interfaces (and it didn't work).

If I set like you say now I got:

```
route -n
```

```
Kernel IP routing table
```

| Destination | Gateway | Genmask | Flags | Metric | Ref | Use | Iface |
|-------------|-----------|---------------|-------|--------|-----|-----|----------|
| 10.0.0.0 | 0.0.0.0 | 255.255.255.0 | U | 0 | 0 | 0 | eth1.980 |
| 126.66.64.0 | 0.0.0.0 | 255.255.254.0 | U | 0 | 0 | 0 | eth0.20 |
| 127.0.0.0 | 127.0.0.1 | 255.0.0.0 | UG | 0 | 0 | 0 | lo |

```
130 / # ping 10.0.0.1
```

```
PING 10.0.0.1 (10.0.0.1) 56(84) bytes of data.
```

```
From 10.0.0.5 icmp_seq=2 Destination Host Unreachable
```

```
From 10.0.0.5 icmp_seq=3 Destination Host Unreachable
```

```
From 10.0.0.5 icmp_seq=4 Destination Host Unreachable
```

```
--- 10.0.0.1 ping statistics ---
```

```
4 packets transmitted, 0 received, +3 errors, 100% packet loss, time 3005ms
```

```
, pipe 3
```

```
130 / # ping 126.66.64.1
```

```
PING 126.66.64.1 (126.66.64.1) 56(84) bytes of data.
```

```
From 126.66.64.158 icmp_seq=2 Destination Host Unreachable
```

```
From 126.66.64.158 icmp_seq=3 Destination Host Unreachable
```

```
From 126.66.64.158 icmp_seq=4 Destination Host Unreachable
```

```
--- 126.66.64.1 ping statistics ---
```

```
4 packets transmitted, 0 received, +3 errors, 100% packet loss, time 3009ms
```

```
, pipe 3
```

```
130 / #
```

Subject: Re: VLAN not working in VE?

Posted by [januszzz](#) on Fri, 17 Oct 2008 06:44:46 GMT

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Hey, I've just been too quick - adding vlans using standard way works, but not exactly:

PING 10.0.1.1 (10.0.1.1) 56(84) bytes of data.

64 bytes from 10.0.1.1: icmp_seq=5 ttl=254 time=0.471 ms
64 bytes from 10.0.1.1: icmp_seq=6 ttl=254 time=0.819 ms
64 bytes from 10.0.1.1: icmp_seq=7 ttl=254 time=0.470 ms
64 bytes from 10.0.1.1: icmp_seq=8 ttl=254 time=0.447 ms
64 bytes from 10.0.1.1: icmp_seq=9 ttl=254 time=0.452 ms
64 bytes from 10.0.1.1: icmp_seq=10 ttl=254 time=0.462 ms
64 bytes from 10.0.1.1: icmp_seq=11 ttl=254 time=0.442 ms
64 bytes from 10.0.1.1: icmp_seq=12 ttl=254 time=0.460 ms
64 bytes from 10.0.1.1: icmp_seq=13 ttl=254 time=0.453 ms
64 bytes from 10.0.1.1: icmp_seq=14 ttl=254 time=4.93 ms
64 bytes from 10.0.1.1: icmp_seq=39 ttl=254 time=0.455 ms
64 bytes from 10.0.1.1: icmp_seq=40 ttl=254 time=0.463 ms
64 bytes from 10.0.1.1: icmp_seq=41 ttl=254 time=0.473 ms
64 bytes from 10.0.1.1: icmp_seq=42 ttl=254 time=0.471 ms
64 bytes from 10.0.1.1: icmp_seq=43 ttl=254 time=2.93 ms
64 bytes from 10.0.1.1: icmp_seq=44 ttl=254 time=1.61 ms
64 bytes from 10.0.1.1: icmp_seq=45 ttl=254 time=0.464 ms
64 bytes from 10.0.1.1: icmp_seq=46 ttl=254 time=0.470 ms
64 bytes from 10.0.1.1: icmp_seq=71 ttl=254 time=3.94 ms
64 bytes from 10.0.1.1: icmp_seq=72 ttl=254 time=0.482 ms

On HN I see:

08:39:48.008360 IP 10.0.1.2 > 10.0.1.1: ICMP echo request, id 58639, seq 16, length 64
08:39:49.008382 IP 10.0.1.2 > 10.0.1.1: ICMP echo request, id 58639, seq 17, length 64
08:39:50.008406 IP 10.0.1.2 > 10.0.1.1: ICMP echo request, id 58639, seq 18, length 64
08:39:50.016660 IP 10.0.1.254 > 10.0.1.1: ICMP host 10.0.1.2 unreachable, length 92
08:39:50.016668 IP 10.0.1.254 > 10.0.1.1: ICMP host 10.0.1.2 unreachable, length 92
08:39:50.016670 IP 10.0.1.254 > 10.0.1.1: ICMP host 10.0.1.2 unreachable, length 92
08:39:51.008434 IP 10.0.1.2 > 10.0.1.1: ICMP echo request, id 58639, seq 19, length 64
08:39:52.008458 IP 10.0.1.2 > 10.0.1.1: ICMP echo request, id 58639, seq 20, length 64
08:39:53.008482 IP 10.0.1.2 > 10.0.1.1: ICMP echo request, id 58639, seq 21, length 64
08:39:54.008508 IP 10.0.1.2 > 10.0.1.1: ICMP echo request, id 58639, seq 22, length 64
08:39:54.026760 IP 10.0.1.254 > 10.0.1.1: ICMP host 10.0.1.2 unreachable, length 92
08:39:54.026771 IP 10.0.1.254 > 10.0.1.1: ICMP host 10.0.1.2 unreachable, length 92
08:39:54.026774 IP 10.0.1.254 > 10.0.1.1: ICMP host 10.0.1.2 unreachable, length 92
08:39:54.727549 IP 126.66.64.151 > 126.66.48.19: ICMP echo reply, id 12562, seq 0, length 55
08:39:54.758427 IP 126.66.64.151 > 126.66.48.19: ICMP echo reply, id 12562, seq 1, length 55
08:39:54.811496 IP 126.66.64.151 > 126.66.48.19: ICMP echo reply, id 12562, seq 2, length 55
08:39:55.008534 IP 10.0.1.2 > 10.0.1.1: ICMP echo request, id 58639, seq 23, length 64
08:39:56.008559 IP 10.0.1.2 > 10.0.1.1: ICMP echo request, id 58639, seq 24, length 64
08:39:57.008585 IP 10.0.1.2 > 10.0.1.1: ICMP echo request, id 58639, seq 25, length 64
08:39:58.008609 IP 10.0.1.2 > 10.0.1.1: ICMP echo request, id 58639, seq 26, length 64

The same goes for the second vlan. From HN pings goes ok, to both vlans.

Any ideas why?

Subject: Re: VLAN not working in VE? <SOLVED>
Posted by [januszzz](#) on Sun, 26 Oct 2008 18:47:23 GMT
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Ok, I got it. There are several ways how to do this, but in my opinion openvz wiki does bad job and explains nothing.

Moreover, there is nothing about setting vlans permanently.

I do explain later on another wiki how to set it up and post a link here.

Thanks a lot maratrus for your offsite help!

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