Subject: vlan networking problem
Posted by cleavoy on Fri, 24 Mar 2006 22:27:26 GMT

Does openvz work with VLANS? Hardware node 'storm' can ping virtual node 192.168.77.25, but hosts on vlan id 0 are unable to ping it. tcpdump on the hw node shows the arp requests, but no response. tcpdump on virutal node 'rain' doesnt seem to be receiving the arp requests.

[root@storm ~]# ifconfig eth0.0
eth0.0   Link encap:Ethernet HWaddr 00:90:27:25:1D:FD
          inet addr:192.168.77.2 Bcast:192.168.77.255 Mask:255.255.255.0

[root@storm ~]# vzlist
    VPSID   NPROC STATUS IP_ADDR   HOSTNAME
     101   20 running 192.168.77.25   rain

[root@storm ~]# ping 192.168.77.25
PING 192.168.77.25 (192.168.77.25) 56(84) bytes of data.
64 bytes from 192.168.77.25: icmp_seq=0 ttl=64 time=0.128 ms

[root@storm ~]# tcpdump -ni eth0.0
17:04:23.346793 arp who-has 192.168.77.25 tell 192.168.77.1
17:04:24.341127 arp who-has 192.168.77.25 tell 192.168.77.1
17:04:25.341112 arp who-has 192.168.77.25 tell 192.168.77.1

Where should I look to figure out whats wrong?

Could someone explain what this option in /etc/sysconfig/vz would be used for?
#VE_ROUTE_SRC_DEV="eth0"

--Chris

Subject: Re: vlan networking problem
Posted by dev on Sat, 25 Mar 2006 18:06:01 GMT

cleavoy, OpenVZ works with VLANs.
I suppose you simply need to setup correct routing rules in host system. Something like:
/sbin/ip r a 192.168.77.0/24 dev eth0.0 src 192.168.77.2

Also according to 'man vz', this option should also help you:

Quote:
  Network interface parameters
    VE_ROUTE_SRC_DEV="device"
        This parameter specifies the network device name which ip address will used for source

ip. If on HN configured > 1 network interfaces and
needed to specify the source ip address, set corresponding device. By default takes the first in network device list.

this parameter is used in /usr/lib/vzctl/scripts/vps-net_add scripts.

Subject: Re: vlan networking problem
Posted by cleavoy on Tue, 28 Mar 2006 05:34:09 GMT
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My troubles continue.. The vlan interfaces are up and working, however when i try to cat /proc/net/vlan/conf, it segfaults. I'm going to try bringing the system upto date with centos 4.3 and the latest openvz utils/kernel. Hopefully this issue is fixed. Has anyone else run into this problem?

Btw, I did a quick test, and the Centos 2.6.9-22.EL stock kernels are not causing segfaults, so i think this might be a bug with the openvz kernel config/modules.

[root@storm ~]# uname -a
Linux storm.dawn.local 2.6.8-022stab070.1 #1 Mon Feb 20 19:17:39 MSK 2006 i686 athlon i386 GNU/Linux

[root@storm ~]# cat /proc/net/vlan/config
Segmentation fault
[root@storm ~]# dmesg |tail -n 25
eth0.0: add 01:00:5e:00:00:01 mcast address to master interface
loop: loaded (max 8 devices)
Unable to handle kernel paging request at virtual address 10101069
 printing eip:
f4beac68
*pde = 00000000
Oops: 0000 [#5]
Modules linked in: loop simfs vznetdev vzdquota vzmon vzdev af_packet ipt_length ipt_ttl ipt_tcpmss ipt_TCPMSS iptable_mangle ipt_multiport ipt_limit ipt_tos ipt_REJECT ip_tables parport_pc lp parport w83627hf eeprom i2c_sensor i2c_isa i2c_viapro i2c_dev i2c_core sunrpc 8021q thermal processor fan button battery asus_acpi ac ohci_hcd ehci_hcd uhci_hcd usbcore pciehp e100 mii floppy ide_cd cdrom
CPU: 0, VCPU: 0:0
EIP: 0060:[<f4beac68>]   Not tainted
EFLAGS: 00010206   (2.6.8-022stab070.1)
EIP is at vlan_skip+0x8/0x20 [8021q]
eax: 10101011   ebx: 00000000   ecx: d5aa0f4c   edx: 00000001
esi: e364e480   edi: 00000001   ebp: 00000047   esp: d5aa0f34
ds: 007b   es: 007b   ss: 0068
Process cat (pid: 8366, veid=0, threadinfo=d5aa0000 task=eeb638c0)
Stack: c017e6b1 10101011 00000001 d5aa0f4c e364e498 00000000 00000001 00000000

```
       00000000 00000000 00000000 e191b480 d5aa0fac 00000400 c015fd08 e191b480
       0804d858 00000400 d5aa0fac 00000000 00000000 e191b480 fffffff7 00000400
Call Trace:
 [<c017e6b1>] seq_read+0x1c1/0x2f0
 [<c015fd08>] vfs_read+0xb8/0x130
 [<c015ffb1>] sys_read+0x51/0x80
 [<c03e8123>] syscall_call+0x7/0xb
Code: f6 40 58 01 75 0f 89 f6 8b 40 28 85 c0 74 06 f6 40 58 01 74
```

[root@storm ~]# lspci|grep Ethernet
00:06.0 Ethernet controller: Intel Corporation 82557/8/9 [Ethernet Pro 100] (rev 05)

Subject: Re: vlan networking problem
Posted by cleavoy on Tue, 28 Mar 2006 07:31:09 GMT
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Well its working now and my source routing problem is fixed too. cat /proc/net/vlan/config no
longer seg faults. I suspect it was fixed in either the updates to centos 4.3 (from 4.2) or to openvz
kernel 2.6.8-022stab072.2 (from 70.1)

One other thing, if anyone has this problem:

Mar 28 01:47:33 storm ifup: e100 device eth0.0 does not seem to be present, delaying
initialization.
Mar 28 01:47:33 storm network: Bringing up interface vlan0: failed

I had to hack /etc/sysconfig/network-scripts/ifup to fix support for vlan id 0. Maybe there is support
for vid 0, but for whatever reason its not working with my config. If i do vconfig add eth0 0 then
ifup eth0.0 it works fine. But i needed this dirty patch for it to work on startup. Maybe someone
with better knowledge of the initscripts can check into this.

Search for,
    if [-n "$VID"]; then
add this above it,
    if ["$DEVICE" == "eth0.0"]; then
      VID="0"
    fi

For reference:

[root@storm etc]# grep eth0 modprobe.conf
alias eth0 e100
alias eth0.0 e100
alias eth0.1 e100
alias eth0.2 e100

```
[root@storm sysconfig]# cat network
NETWORKING=yes
HOSTNAME=storm.dawn.local
VLAN=yes

[root@storm network-scripts]# cat ifcfg-vlan0
DEVICE=eth0.0
IPADDR=192.168.77.2
NETMASK=255.255.255.0
ONBOOT=yes
TYPE=Ethernet
BOOTPROTO=none
USERCTL=no
IPV6INIT=no
PEERDNS=yes
```

-- Chris