
Subject: CentOS 6 bridging problem.

Posted by [2young2die](#) on Tue, 26 Jun 2012 08:34:30 GMT

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Hi all.

I have currently an OpenVZ server:

```
uname -a
```

```
Linux vader8.superhost.pl 2.6.32-042stab055.16 #1 SMP Fri Jun 8  
19:22:28 MSD 2012 x86_64 x86_64 x86_64 GNU/Linux
```

```
cat /etc/redhat-release
```

```
CentOS release 6.2 (Final)
```

```
lspci | grep -i eth
```

```
01:00.0 Ethernet controller: Realtek Semiconductor Co., Ltd.  
RTL8111/8168B PCI Express Gigabit Ethernet controller (rev 03)
```

```
cd /etc/sysconfig/network-scripts
```

```
cat ifcfg-eth0
```

```
DEVICE="eth0"
```

```
BOOTPROTO=none
```

```
NM_CONTROLLED="no"
```

```
ONBOOT="yes"
```

```
TYPE="Ethernet"
```

```
HWADDR=00:25:22:0D:C2:2A
```

```
DOMAIN=domain.eu
```

```
IPV4_FAILURE_FATAL=yes
```

```
IPV6INIT=no
```

```
NAME="System eth0"
```

```
UUID=5fb06bd0-0bb0-7ffb-45f1-d6edd65f3e03
```

```
BRIDGE=vmbr0
```

```
cat ifcfg-eth0.20
```

```
DEVICE=eth0.20
```

```
BOOTPROTO=none
```

```
ONBOOT=yes
```

```
VLAN=yes
```

```
BRIDGE=vmbr20
```

```
cat ifcfg-vmbr20
```

```
DEVICE=vmbr20
```

```
BOOTPROTO=none
```

```
DHCPCLASS=
```

```
IPADDR=10.20.0.108
```

```
NETMASK=255.255.0.0
```

```
ONBOOT=yes
TYPE=Bridge
```

```
cat ifcfg-vmbr0
DEVICE=vmbr0
BOOTPROTO=none
DHCPCLASS=
IPADDR=195.218.152.219
NETMASK=255.255.255.0
ONBOOT=yes
TYPE=Bridge
```

```
cat ifcfg-vmbr0:1
DEVICE=vmbr0:1
BOOTPROTO=none
IPADDR=192.168.2.203
NETMASK=255.255.255.0
ONBOOT=yes
```

```
cat ifcfg-venet0
DEVICE=venet0
ONBOOT=yes
STARTMODE=onboot
```

```
route -n
Kernel IP routing table
Destination    Gateway        Genmask        Flags Metric Ref    Use Iface
192.168.2.0    0.0.0.0        255.255.255.0 U    0    0    0 vmbr0
195.218.152.0  0.0.0.0        255.255.255.0 U    0    0    0 vmbr0
10.20.0.0      0.0.0.0        255.255.0.0   U    0    0    0 vmbr20
169.254.0.0    0.0.0.0        255.255.0.0   U   1003    0    0 vmbr0
169.254.0.0    0.0.0.0        255.255.0.0   U   1006    0    0 vmbr20
0.0.0.0        193.218.152.1 0.0.0.0       UG    0    0    0 vmbr0
```

```
iptables -L
Chain INPUT (policy ACCEPT)
target    prot opt source                destination
```

```
Chain FORWARD (policy ACCEPT)
target    prot opt source                destination
```

```
Chain OUTPUT (policy ACCEPT)
target    prot opt source                destination
```

```
ip route show
192.168.2.0/24 dev vmbr0 proto kernel scope link src 192.168.2.203
193.218.152.0/24 dev vmbr0 proto kernel scope link src 193.218.152.219
10.20.0.0/16 dev vmbr20 proto kernel scope link src 10.20.0.108
```

```
169.254.0.0/16 dev vmbr0 scope link metric 1003
169.254.0.0/16 dev vmbr20 scope link metric 1006
default via 193.218.152.1 dev vmbr0
```

ip addr show

```
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue state UNKNOWN
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast
state UNKNOWN qlen 1000
    link/ether 00:25:22:0d:c2:2a brd ff:ff:ff:ff:ff:ff
    inet6 fe80::225:22ff:fe0d:c22a/64 scope link
        valid_lft forever preferred_lft forever
3: vmbr0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue
state UNKNOWN
    link/ether 00:25:22:0d:c2:2a brd ff:ff:ff:ff:ff:ff
    inet 193.218.152.219/24 brd 193.218.152.255 scope global vmbr0
    inet 192.168.2.203/24 brd 192.168.2.255 scope global vmbr0:1
    inet6 fe80::225:22ff:fe0d:c22a/64 scope link
        valid_lft forever preferred_lft forever
4: venet0: <BROADCAST,POINTOPOINT,NOARP,UP,LOWER_UP> mtu 1500 qdisc
noqueue state UNKNOWN
    link/void
    inet6 fe80::1/128 scope link
        valid_lft forever preferred_lft forever
5: eth0.20@eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc
noqueue state UP
    link/ether 00:25:22:0d:c2:2a brd ff:ff:ff:ff:ff:ff
    inet6 fe80::225:22ff:fe0d:c22a/64 scope link
        valid_lft forever preferred_lft forever
6: vmbr20: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue
state UNKNOWN
    link/ether 00:25:22:0d:c2:2a brd ff:ff:ff:ff:ff:ff
    inet 10.20.0.108/16 brd 10.20.255.255 scope global vmbr20
    inet6 fe80::225:22ff:fe0d:c22a/64 scope link
        valid_lft forever preferred_lft forever
```

tcpdump -n -i eth0 icmp and dst host 10.20.0.98
shows that there is no traffic on interface.

So I have a setup in which:

- eth0 is my physical interface
- it is bridged with vmbr0 with ip 193.218.152.219 and this address is accessible across the network
- eth0.20 is a logical interface in VLAN 20 on eth0
- it is bridged with vmbr20 with ip 10.20.0.108 and this address IS

NOT accessible across the network

- vmbr0 bridge has an alias vmbr0:1 with ip 192.168.2.203 and this address is accessible across the network

When I set up the network for testing:

- eth0 as a physical interface 195.218.152.219

- eth0.20 as a VLAN interface 10.20.0.108

both addresses are accessible across the network (VLANs on the switch are set up correctly, VLAN 1 untagged, VLAN 20 tagged).

Do you see an error in my configuration? Why is 10.20.0.108 not available? Are there any known errors with OpenVZ kernel connected with vlan tagging?

Best regards,
Rafal.
