
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
```

```
DHCPCCLASS=
```

```
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 195.218.152.219 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.
