Subject: OpenVZ with bridged interfaces and VLAN
Posted by deimosfr on Sun, 06 Jun 2010 07:44:18 GMT

View Forum Message <> Reply to Message

Hi !

I've got a problem with OpenVZ with bridged VLAN. Here is my configuration :

```
                                    +------+
 +-------+   +----------+    +---------+ br0  |VE101 |
 |       | | | OpenBSD  |----->| Debian  |------->|      |
 | WAN   |--->| Router   |    | OpenVZ  |       +------+
 |       | | | Firewall |----->| br0 br1 |  br1  +------+
 +-------+   +----------+    +---------+------->|VE102 |
                        |br0          |    |
                        |VLAN br0.110  +------+
                         v
                   +---------+
                   |VE103.110|
                   +---------+
```

I can't make VLAN work on br0 (br0.110) and I would like to understand why. I don't have any switch so no problem with unmanageable switch.

When I say it doesn't work, for example I can't ping the default gateway and it works from other hosts (not in VLAN).

I've configured a VLAN interface on OpenBSD in /etc/hostname.vlan110:
inet 192.168.110.254 255.255.255.0 NONE vlan 110 vlandev sis1

And it seems to be working fine. I've also adapted my PF configuration to work with VLAN but I don't see any incoming traffic.

On my Debian Lenny, here is my interfaces configuration :

```
# The loopback network interface
auto lo
iface lo inet loopback

# br0
auto br0
iface br0 inet static
    address 192.168.100.1
    netmask 255.255.255.0
    gateway 192.168.100.254
    network 192.168.100.0
    broadcast 192.168.100.255
      bridge_ports eth0
```

```
        bridge_fd 9
        bridge_hello 2
        bridge_maxage 12
        bridge_stp off
```

```
# VLAN 110
auto br0.110
iface br0.110 inet static
    address 192.168.110.1
    netmask 255.255.255.0
    network 192.168.110.0
    gateway 192.168.110.254
    broadcast 192.168.110.255
    pre-up vconfig add br0 110
    post-down vconfig rem br0.110
```

It looks OK, but when I start my VE, here is the message:

```
...
Configure veth devices: veth103.0
Adding interface veth103.0 to bridge br0.110 on CT0 for VE103
can't add veth103.0 to bridge br0.110: Operation not supported
VE start in progress...
```

So I've got one error here. I've followed this documentation http://wiki.openvz.org/VLAN but it doesn't work. I've certainly missed something but I don't know why. Someone could help me please?

Thanks

Subject: Re: OpenVZ with bridged interfaces and VLAN
Posted by maratrus on Fri, 11 Jun 2010 12:35:52 GMT
View Forum Message <> Reply to Message

Hello,

I might miss a point but veth103.0 cannot be added to br0.110 because the last one is VLAN interface.
I think that you shouldn't create br0.110 but just leave a single br0 which contains physical interface of the HN (possibly eth0) and veth103.0. Then add vlan interfaces using vconfig utility inside the VE and this should work.

Subject: Re: OpenVZ with bridged interfaces and VLAN
Posted by deimosfr on Sat, 12 Jun 2010 16:30:51 GMT

Hi !

Thanks for your answer. So I'm trying what you told me and I still can't get network in my VE.

On the master host, I pull off the VLAN and br0.110 interface to let only br0.

Then I configured the VE to be on br0 interface :
CONFIG_CUSTOMIZED="yes"
VZHOSTBR="br0"
IP_ADDRESS=""
NAMESERVER="192.168.100.3"
NETIF="ifname=eth0,mac=00:18:51:78:46:C8,host_ifname=veth103.0,host_mac=00:18:51:B1:78:
DE"

Then in my VE interfaces, here is what I've got :
auto lo eth0.110
iface lo inet loopback

iface eth0.110 inet static
 address 192.168.110.10
 netmask 255.255.255.0
 #gateway 192.168.110.254
 #network 192.168.110.0
 broadcast 102.168.110.255
 vlan_raw_device eth0

And to finish, to validate the vlan config :
> cat /proc/net/vlan/eth0.110

eth0.110 VID: 110 REORDER_HDR: 1 dev->priv_flags: 1
        total frames received   1
         total bytes received   46
     Broadcast/Multicast Rcvd   0

     total frames transmitted   15
      total bytes transmitted   2086
        total headroom inc   0
       total encap on xmit   15
Device: eth0
INGRESS priority mappings: 0:0 1:0 2:0 3:0 4:0 5:0 6:0 7:0
EGRESSS priority Mappings:

I can't ping my router (of course on the same subnet) with this VE but I can from another host not in this VLAN for example.

I'm still wondering why it doesn't work as it looks like so simple on the documentation.

Thanks

Subject: Re: OpenVZ with bridged interfaces and VLAN
Posted by Nilesh Bairagi on Mon, 16 Apr 2012 16:44:34 GMT
View Forum Message <> Reply to Message

Can u check your IP forwarding on host machine, if you are not using NAT for containers.

Subject: Re: OpenVZ with bridged interfaces and VLAN
Posted by pateutz on Sat, 07 Jul 2012 20:56:05 GMT
View Forum Message <> Reply to Message

i have same problems

network interface
brctl addbr br0
auto br0
iface br0 inet static
bridge_ports eth1
 address 89.42.231.180
 broadcast 89.42.231.255
 netmask 255.255.255.0
 gateway 89.42.231.1

auto eth1.113
iface eth1.113 inet static
        address 89.42.231.113
        netmask 255.255.255.0
        #gateway 192.168.110.254
        #network 192.168.110.0
        broadcast 89.42.231.255
        vlan_raw_device eth1

113.conf
HOSTNAME="test.smallhosting.ro"
NAMESERVER="193.231.169.2"
SEARCHDOMAIN="smallhosting.ro"
VZHOSTBR="br0"
VETH_IP_ADDRESS=""
HOSTNAME="test.smallhosting.ro"
NAMESERVER="193.231.169.2"
SEARCHDOMAIN="smallhosting.ro"

VZHOSTBR="br0"
VETH_IP_ADDRESS=""
NETIF="ifname=eth1,mac=00:02:04:06:08:02,host_ifname=veth113.0,host_mac=00:19:99:C4:66:87"

and when start vzctl start 113

i have this

root@smallhosting:~# vzctl start 113
Starting container ...
Container is mounted
Setting CPU units: 1000
Set hostname: test.smallhosting.ro
File resolv.conf was modified
Configure veth devices: veth113.0
ifname=
host_ifname=
According to basic VE113 has no veth IPs configured.
/usr/sbin/vznetcfg exited with error
Container start failed
Stopping container ...
Container was stopped
Container is unmounted

help me somone?

i wan to add more ips on container

Subject: Re: OpenVZ with bridged interfaces and VLAN
Posted by deimosfr on Mon, 09 Jul 2012 23:44:35 GMT
View Forum Message <> Reply to Message

Hi,

Try that on the host :

This file describes the network interfaces available on your system
and how to activate them. For more information, see interfaces(5).

The loopback network interface
auto lo
iface lo inet loopback

```
# The primary network interface
allow-hotplug eth0
auto eth0
iface eth0 inet manual

# The bridged interface
auto vmbr0
iface vmbr0 inet static
        address 192.168.100.1
        netmask 255.255.255.0
        gateway 192.168.100.254
        broadcast 192.168.100.255
        network 192.168.100.0
        bridge_ports eth0
        bridge_fd 9
        bridge_hello 2
        bridge_maxage 12
        bridge_stp off

# The DMZ Vlan 110
auto vmbr0.110
iface vmbr0.110 inet static
 address 192.168.110.1
 netmask 255.255.255.0
 broadcast 192.168.110.255
 vlan_raw_device vmbr0
```

On the VE, configure it to get this config :

```
[...]
CONFIG_CUSTOMIZED="yes"
VZHOSTBR="vmbr0"
IP_ADDRESS=""
NETIF="ifname=eth0,mac=00:18:50:FE:EF:0B,host_ifname=veth101.0,host_mac=00:18:50:07:B8
:F4"
[...]
```

Then on the guest :

```
# This configuration file is auto-generated.
# WARNING: Do not edit this file, your changes will be lost.
# Please create/edit /etc/network/interfaces.head and /etc/network/interfaces.tail instead,
# their contents will be inserted at the beginning and at the end
# of this file, respectively.
#
# NOTE: it is NOT guaranteed that the contents of /etc/network/interfaces.tail
# will be at the very end of this file.
```

```
# Auto generated lo interface
auto lo
iface lo inet loopback

# VE interface
auto eth0
iface eth0 inet manual

# VLAN 110 interface
auto eth0.110
iface eth0.110 inet static
 address 192.168.110.2
 netmask 255.255.255.0
 gateway 192.168.110.254
 broadcast 192.168.110.255
 vlan_raw_device eth0
```

It works for me

Subject: Re: OpenVZ with bridged interfaces and VLAN
Posted by pateutz on Mon, 09 Jul 2012 23:50:11 GMT
View Forum Message <> Reply to Message

deimosfr wrote on Mon, 09 July 2012 19:44Hi,

Try that on the host :

```
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
allow-hotplug eth0
auto eth0
iface eth0 inet manual

# The bridged interface
auto vmbr0
iface vmbr0 inet static
        address 192.168.100.1
        netmask 255.255.255.0
        gateway 192.168.100.254
        broadcast 192.168.100.255
```

```
        network 192.168.100.0
        bridge_ports eth0
        bridge_fd 9
        bridge_hello 2
        bridge_maxage 12
        bridge_stp off

# The DMZ Vlan 110
auto vmbr0.110
iface vmbr0.110 inet static
 address 192.168.110.1
 netmask 255.255.255.0
 broadcast 192.168.110.255
 vlan_raw_device vmbr0
```

On the VE, configure it to get this config :

```
[...]
CONFIG_CUSTOMIZED="yes"
VZHOSTBR="vmbr0"
IP_ADDRESS=""
NETIF="ifname=eth0,mac=00:18:50:FE:EF:0B,host_ifname=veth101.0,host_mac=00:18:50:07:B8
:F4"
[...]
```

Then on the guest :

```
# This configuration file is auto-generated.
# WARNING: Do not edit this file, your changes will be lost.
# Please create/edit /etc/network/interfaces.head and /etc/network/interfaces.tail instead,
# their contents will be inserted at the beginning and at the end
# of this file, respectively.
#
# NOTE: it is NOT guaranteed that the contents of /etc/network/interfaces.tail
# will be at the very end of this file.

# Auto generated lo interface
auto lo
iface lo inet loopback

# VE interface
auto eth0
iface eth0 inet manual

# VLAN 110 interface
auto eth0.110
iface eth0.110 inet static
 address 192.168.110.2
```

netmask 255.255.255.0
 gateway 192.168.110.254
 broadcast 192.168.110.255
 vlan_raw_device eth0

It works for me

i must set a mac to work internet

my isp give me at all ip's a mac to set on nic

and generali i wan to set multiple ip's on openvz container

with one ip and netif mac it work but when i add second ip on container dont work from external

---

Subject: Re: OpenVZ with bridged interfaces and VLAN
Posted by deimosfr on Tue, 10 Jul 2012 11:34:11 GMT
View Forum Message <> Reply to Message

You can play with NAT and iptables for that. You can found several examples on internet to NAT instead of bridge.

Subject: Re: OpenVZ with bridged interfaces and VLAN
Posted by pateutz on Tue, 10 Jul 2012 23:44:32 GMT
View Forum Message <> Reply to Message

i will try with this and i will reply

but i buyed cpanel and i installed centos 6.2 64bits and same problems here
but i will try with NAT on centos too i will come with repley

---

Subject: Re: OpenVZ with bridged interfaces and VLAN
Posted by bdube on Sun, 13 Jan 2013 14:57:35 GMT
View Forum Message <> Reply to Message

For me, as a network & Linux guy & just newb with OpenVZ, it looks weird to try to associate a sub-interface (vlan number) to a bridge (vmbr0).

Sub-interface (vlan numbers) should be associate with physical interface to indicate the use of 802.1Q and the number after the interface name inform us about the tag used. Ex.: eth0.125 indicate the tag, or vlan number, 125 on the interface eth0 using 802.1Q.

Then if you want to associate a bridge with this particular vlan just create a simple bridge (vmbr0)

& map the sub-interface (eth0.125) to it. The bridge don't have to know about the VLAN number.

Regards

Ben