
Subject: Handle ip from inside VE

Posted by [dagr](#) on Sun, 21 Oct 2007 16:18:54 GMT

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Is there a way to add and remove VE ip from inside VE ? (may be there is special vzctl capability)

Subject: Re: Handle ip from inside VE

Posted by [piavlo](#) on Mon, 22 Oct 2007 06:17:52 GMT

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dagr wrote on Sun, 21 October 2007 18:18: Is there a way to add and remove VE ip from inside VE ? (may be there is special vzctl capability)

You can use veth device instead of venet

http://wiki.openvz.org/Differences_between_venet_and_veth

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

Subject: Re: Handle ip from inside VE

Posted by [dagr](#) on Mon, 22 Oct 2007 07:59:25 GMT

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i checked http://wiki.openvz.org/Virtual_Ethernet_device#Making_a_veth_device_persistent

And found out problem - to make IP work i need to run on HN

```
ip route add 192.168.0.101 dev veth101.0
```

And when i move this IP to another VPS - i will need to change routes on HN.

My goal is to exclude any need to make changes on HN side.

Lets say i have 2 VEs with db and standby: A and B . Each has main ip - ip_A and ip_B.

And also they have migrating production IP (for switchover).

What i want if to be able to migrate prod_ip from A to B and back running commands from inside VEs. (without any access to HN's ssh or else, though VEs have access to each other). Is it possible ?

P.S - Actually changing routes isnt necessary if there are no clients on same HN's which need communicate to prod_ip. In this case it would be possible just to make ifdown/ifup eth0:1 inside VEs. Still i found out problem with arp announce during ifup. I can see it via tcpdump inside VE but not on HN interface. Ie clients cant refresh their arp cache.

i have

```
/proc/sys/net/ipv4/conf/eth0/proxy_arp
```

```
/proc/sys/net/ipv4/conf/eth0/forwarding
```

/proc/sys/net/ipv4/conf/vethX/proxy_arp
/proc/sys/net/ipv4/conf/vethX/forwarding
set to 1.
I also tried to set
/proc/sys/net/ipv4/conf/.../arp_announce to 1 - but no result.
How do i make HN to retransmit arp announce ?

Subject: Re: Handle ip from inside VE
Posted by [piavlo](#) on Mon, 22 Oct 2007 10:05:56 GMT
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Actually I don't know why the wiki suggests to use proxy_arp and add static routes on the bridge device. Besides a minimal speedup proxy_arp may give, i see no more dvantages, only disadvantages like you stated then you want to move VE from one HN to another HN, all the hosts in the LAN will need their arp entries updated.

So in my setup i have a default transparent bridging setup with proxy_arp and forwarding disabled, thus then the the VE is moved between HNs it's transparent for the VE clients in the LAN.

The only thing you need to be careful about is to make sure the real ethX device has the smallest mac address among all veth's enslaved to the bridge.

See http://forum.openvz.org/index.php?t=tree&goto=22118&#msg_22118

Subject: Re: Handle ip from inside VE
Posted by [dagr](#) on Mon, 22 Oct 2007 10:59:44 GMT
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i suppose proxy_arp is arp transmit feature , cause i cant ping veth ip until set proxy_arp to 1. Same when simply using veth or with bridging .

Subject: Re: Handle ip from inside VE
Posted by [piavlo](#) on Mon, 22 Oct 2007 17:58:46 GMT
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http://en.wikipedia.org/wiki/Proxy_ARP

If it might help , this is my network configuration for bridge:

```
projsrv1 ~ # cat /etc/vz/vznet.conf  
#!/bin/bash
```

```
EXTERNAL_SCRIPT="/etc/vz/bin/vzbridge.add"
projsrv1 ~ # cat /etc/vz/bin/vzbridge.add
#!/bin/bash

CONFIGFILE=/etc/vz/conf/$VEID.conf
. $CONFIGFILE
VZHOSTIF=`echo $NETIF |sed 's/^.*host_ifname=\\(.*)\\.*$\\1/g`

BRIDGED_VES_REGEXP='(101|102|103)'
echo "$VEID" | egrep -e "$BRIDGED_VES_REGEXP" > /dev/null
if [ "$?" == "0" ]; then

    if [ ! -n "$VZHOSTIF" ]; then
        echo "According to $CONFIGFILE VE$VEID has no veth interface configured."
        exit 1
    fi

    ifconfig veth${VEID}.0 0
    brctl addif br0 veth${VEID}.0
    exit $?
fi

exit 0
projsrv1 ~ #
The eth0 is enslaved to br0
```
