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Subject: howto auto add VE veth to a HN bridge upon VE startup?[Solved]

Posted by [piavlo](#) on Wed, 05 Sep 2007 19:13:16 GMT

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I have one specific VE with veth device, i want that during this VE startup ,after the veth device is created, on VE0 (i.e. HN) this veth will be added as bridge interface. This should happen before the internal VE network ralter init.d scripts are started.

All I've found is POST\_CREATE parameter which points /etc/vz/dists/scripts/postcreate.sh which is run in VE0, but is' unclear to me what runs first the postcreate.sh in VE0 or the specific VE init.d scripts?

Also on gentoo wiki i found a similar way to auto mount/umount partitions then VE starts up with /etc/vz/conf/vps.mount and /etc/vz/conf/vps.umount or <VPS-ID>.mount and <VPS-ID>.umount scripts (did not find a detailed info on how this works) Maybe there is a similar way to auto add veth VE device to VE0 bridge?

Thanks  
Alex

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Subject: Re: howto auto add VE veth to a HN bridge upon VE startup?

Posted by [xinhes](#) on Thu, 06 Sep 2007 10:19:34 GMT

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Yes there is a similar interface. But oddly it's not constructed in exactly the same way as vps.mount/vps.umount. There might be some reason for this that I don't know.

I would have liked something like vps.ifup vps.ifdown where you can add your own stuff (per interface which is \$1 to the script) like "brctl addif <bridge> \$1"

Instructions on how to use the startup mechanisms can be found here:  
[http://wiki.openvz.org/Virtual\\_Ethernet\\_device](http://wiki.openvz.org/Virtual_Ethernet_device)

Basically you have to create a script to do your stuff and add this script to the file:  
/etc/vz/vznet.conf like this:

```
#!/bin/bash  
EXTERNAL_SCRIPT="/etc/sysconfig/vz-scripts/veth.ifup"
```

I tried to add this to vps.mount but oddly enough vps.mount is run before any virtual ethernet devices are created.

/Hans Eric Sandström

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Subject: Re: howto auto add VE veth to a HN bridge upon VE startup?

Posted by [piavlo](#) on Thu, 06 Sep 2007 11:53:45 GMT

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Hi Hans,

I've tried the /etc/vz/vznet.conf with custom script which adds the vnet to bridge, and it works, but for some strange reason the VE network is not working, while all network devices and conf seem to be setup correctly.

If instead i start without /etc/vz/vznet.conf

```
vzctl start 101
```

and then manually add veth to bridge

```
brctl addif dmzbr0 veth101.0
```

the VE network works ok

While the VE routing table & interfaces & HN interfaces are exactly the same in both cases.

Maybe the /etc/vz/vznet.conf also removes some setup functionality then it is enabled?

Thanks

Alex

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Subject: Re: howto auto add VE veth to a HN bridge upon VE startup?

Posted by [khorenko](#) on Thu, 06 Sep 2007 14:40:36 GMT

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Hi Alex,

sorry for the intrusion, i just wonder if you just took the script example from [http://wiki.openvz.org/Virtual\\_Ethernet\\_device#Making\\_a\\_veth\\_device\\_persistent](http://wiki.openvz.org/Virtual_Ethernet_device#Making_a_veth_device_persistent)

If yes, i just realized that it simply doesn't add any veth to any bridge. Can you check?

If i'm wrong and you still haven't resolve this, could you please post here VE config, /etc/vz/vznet.conf and a custom script you use?

Thank you,

Konstantin.

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Subject: Re: howto auto add VE veth to a HN bridge upon VE startup?

Posted by [piavlo](#) on Thu, 06 Sep 2007 18:26:22 GMT

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```
/etc/vz/vznet.conf#!/bin/bash
```

```
EXTERNAL_SCRIPT="/etc/vz/veth.bridge.addif"
```

---

```

/etc/vz/veth.bridge.addif
#!/bin/bash

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

if [ "$VEID" == "101" ]; then

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

    brctl addif dmzbr0 veth${VEID}.0
    exit $?
fi

exit 0

```

After the VE 101 is started the bridge has veth101.0

```
# brctl show
```

bridge name	bridge id	STP enabled	interfaces
dmzbr0	8000.00123456789a	no	eth2
			veth101.0

The commands netstat -rn & ifconfig -a both in VE and HN return identical output in both cases (then veth is added to bridge by vznet.conf & then instead it is added manually after VE startup with vznet.conf disabled)

But the networking works only in the latter case with vznet.conf disabled

Which is very strange and the only reason i can think of is that then the vznet.conf is enabled some internal vz net setup functionality gets disabled.

ps. by the way i tried vznet.conf without EXTERNAL\_SCRIPT like this#!/bin/bash

```

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

if [ "$VEID" == "101" ]; then

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

```

```
brctl addif dmzbr0 veth${VEID}.0
exit $?
```

fi

exit 0 Which gives the same result as with EXTERNAL\_SCRIPT  
So i wonder why is there a need for EXTERNAL\_SCRIPT in vznet.conf  
if the device setup can be done just directly in vznet.conf  
without any EXTERNAL\_SCRIPT indirection script?

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Subject: Re: howto auto add VE veth to a HN bridge upon VE startup?

Posted by [piavlo](#) on Fri, 07 Sep 2007 18:29:37 GMT

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Maybe one of the devs has an idea what might be wrong?  
This the only problem preventing me on putting the system in prooduction.

```
piavlo wrote on Thu, 06 September 2007 21:26/etc/vz/vznet.conf#!/bin/bash
EXTERNAL_SCRIPT="/etc/vz/veth.bridge.addif"
/etc/vz/veth.bridge.addif
#!/bin/bash
```

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

```
if [ "$VEID" == "101" ]; then
```

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

```
    brctl addif dmzbr0 veth${VEID}.0
    exit $?
```

fi

```
exit 0
```

After the VE 101 is started the bridge has veth101.0

```
# brctl show
```

```
bridge name    bridge id          STP enabled    interfaces
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               veth101.0
```

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But the networking works only in the latter case with vznet.conf disabled

Which is very strange and the only reason i can think of is that then the vznet.conf is enabled some internal vz net setup functionality gets disabled.

ps. by the way i tried vznet.conf without EXTERNAL\_SCRIPT like this#!/bin/bash

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

```
if [ "$VEID" == "101" ]; then
```

```
    if [ ! -n "$VZHOSTIF" ]; then
```

```
        echo "According to $CONFIGFILE VE$VEID has no veth interface configured."
```

```
        exit 1
```

```
    fi
```

```
    brctl addif dmzbr0 veth${VEID}.0
```

```
    exit $?
```

```
fi
```

exit 0 Which gives the same result as with EXTERNAL\_SCRIPT

So i wonder why is there a need for EXTERNAL\_SCRIPT in vznet.conf

if the device setup can be done just directly in vznet.conf

without any EXTERNAL\_SCRIPT indirection script?

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Subject: Re: howto auto add VE veth to a HN bridge upon VE startup?

Posted by [piavlo](#) on Sun, 09 Sep 2007 17:57:17 GMT

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bump

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Subject: Re: howto auto add VE veth to a HN bridge upon VE startup?

Posted by [piavlo](#) on Tue, 11 Sep 2007 18:38:14 GMT

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up

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Subject: Re: howto auto add VE veth to a HN bridge upon VE startup?

Posted by [khorenko](#) on Thu, 13 Sep 2007 13:30:13 GMT

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ok, i have good news for you.

When you add a veth device to the bridge manually it (veth101.0 interface) is already in the UP state.

At the same time when the script /etc/vz/veth.bridge.addif runs veth101.0 is still down cause avahi-daemon hasn't brought it UP yet. Thus brctl adds downed interface into the bridge and that's why veth doesn't work.

To correct this it's enough to add a line to the /etc/vz/veth.bridge.addif:

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

+ ifconfig veth${VEID}.0 0
  brctl addif dmzbr0 veth${VEID}.0
  exit $?
```

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Subject: Re: howto auto add VE veth to a HN bridge upon VE startup?

Posted by [piavlo](#) on Sun, 16 Sep 2007 11:37:54 GMT

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finist wrote on Thu, 13 September 2007 16:30ok, i have good news for you.

When you add a veth device to the bridge manually it (veth101.0 interface) is already in the UP state.

Yes indeed i did not notice that the veth device was in DOWN state, now it work. Thanks a lot.

Quote:At the same time when the script /etc/vz/veth.bridge.addif runs veth101.0 is still down cause avahi-daemon hasn't brought it UP yet. Thus brctl adds downed interface into the bridge and that's why veth doesn't work.

I don't use avahi at all, so it would be good to know why when the vznet.conf is used veth ends up in DOWN state?

Or more correctly that setup functionality is removed then vznet.conf is used?

Thanks

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Subject: Re: howto auto add VE veth to a HN bridge upon VE startup?

Posted by [piavlo](#) on Sun, 16 Sep 2007 12:07:01 GMT

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OK just found out the vznetcfg script which sources the vznet.conf file, and runs EXTERNAL\_SCRIPT prior to bringing the veth device up.

IMHO the vznetcfg script should be modified upstream to use EXTERNAL\_SCRIPT\_PREUP and EXTERNAL\_SCRIPT\_POSTUP instead of just EXTERNAL\_SCRIPT to allow more granularity in configuring the

network devices.

Alex

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Subject: Re: howto auto add VE veth to a HN bridge upon VE startup?  
Posted by [khorenko](#) on Mon, 17 Sep 2007 09:29:33 GMT

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piavlo wrote on Sun, 16 September 2007 16:07OK just found out the vznetcfg script which sources the vznet.conf file, and runs EXTERNAL\_SCRIPT prior to bringing the veth device up.

Alex, you are right that vznetcfg brings up the veth device in case of EXTERNAL\_SCRIPT variable is empty. But it doesn't run EXTERNAL\_SCRIPT \_prior\_ to bringing the veth device up, if EXTERNAL\_SCRIPT is filled it (EXTERNAL\_SCRIPT) is executed instead of vznetcfg normal configuration. It was by design - in theory the administrator can write down his own network start up script and it should not depend on what vznetcfg does (cause it can and i suppose it will change its behaviour).

Konstantin.

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Subject: Re: howto auto add VE veth to a HN bridge upon VE startup?  
Posted by [piavlo](#) on Mon, 17 Sep 2007 09:39:13 GMT

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finist wrote on Mon, 17 September 2007 11:29piavlo wrote on Sun, 16 September 2007 16:07OK just found out the vznetcfg script which sources the vznet.conf file, and runs EXTERNAL\_SCRIPT prior to bringing the veth device up.

Alex, you are right that vznetcfg brings up the veth device in case of EXTERNAL\_SCRIPT variable is empty. But it doesn't run EXTERNAL\_SCRIPT \_prior\_ to bringing the veth device up, if EXTERNAL\_SCRIPT is filled it (EXTERNAL\_SCRIPT) is executed instead of vznetcfg normal configuration. It was by design - in theory the administrator can write down his own network start up script and it should not depend on what vznetcfg does (cause it can and i suppose it will change its behaviour).

Konstantin.

Yes of course you are right , in a rush i did not notice the exec in exec \${EXTERNAL\_SCRIPT} \$@

Thanks

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