

---

**Subject:** Multiple bridge support  
Posted by [dietmar](#) on Wed, 02 Jul 2008 07:36:42 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi all,

In Proxmox VE we want to support multiple bridges. I currently use a patch which adds an bridge parameter to the netif options:

```
NETIF="iface=XXX,bridge=XXX,mac=XXX,host_ifname=XXX,host_mac=XXX"
```

```
--netif_add iface[,mac,host_ifname,host_mac,bridge]
```

I also modified --netif\_add to accept empty parameters, for example:

```
--netif_add eth3,,,vmbr3
```

I wonder if we can include that into the vzctl release - I will post the patch if somebody is interested.

- Dietmar

---

---

**Subject:** Re: Multiple bridge support  
Posted by [Mishin Dmitry](#) on Wed, 02 Jul 2008 17:48:46 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

On Wednesday 02 July 2008 11:36:42 Dietmar Maurer wrote:

```
> Hi all,  
>  
> In Proxmox VE we want to support multiple bridges. I currently use a  
> patch  
> which adds an bridge parameter to the netif options:  
>  
> NETIF="iface=XXX,bridge=XXX,mac=XXX,host_ifname=XXX,host_mac=XXX"  
>  
> --netif_add iface[,mac,host_ifname,host_mac,bridge]  
>  
> I also modified --netif_add to accept empty parameters, for example:  
>  
> --netif_add eth3,,,vmbr3  
>  
> I wonder if we can include that into the vzctl release - I will post  
> the patch if somebody is interested.
```

Dietmar,

it will be useful indeed, please, provide patch to devel@ mailing list.

>  
> - Dietmar  
>  
>  
--  
Thanks,  
Dmitry.

---

---

**Subject:** AW: [Users] Multiple bridge support  
Posted by [dietmar](#) on Thu, 03 Jul 2008 05:20:53 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Attached is the patch.

- Dietmar

>> In Proxmox VE we want to support multiple bridges. I  
> currently use a  
>> patch which adds an bridge parameter to the netif options:  
>>  
>> NETIF="ifname=XXX,bridge=XXX,mac=XXX,host\_ifname=XXX,host\_mac=XXX"  
>>  
>> --netif\_add ifname[,mac,host\_ifname,host\_mac,bridge]  
>>  
>> I also modified --netif\_add to accept empty parameters, for example:  
>>  
>> --netif\_add eth3,,,vmbr3  
>>  
>> I wonder if we can include that into the vzctl release - I  
> will post  
>> the patch if somebody is interested.  
>  
> Dietmar,  
>  
> it will be useful indeed, please, provide patch to devel@  
> mailing list.  
>

---

#### File Attachments

1) [vzctl-bridge.diff.gz](#), downloaded 720 times

---

---

**Subject:** Re: Multiple bridge support  
Posted by [Arjan Schrijver](#) on Thu, 03 Jul 2008 06:50:24 GMT

Dmitry Mishin wrote:

> On Wednesday 02 July 2008 11:36:42 Dietmar Maurer wrote:

>  
>> Hi all,  
>>  
>> In Proxmox VE we want to support multiple bridges. I currently use a  
>> patch  
>> which adds an bridge parameter to the netif options:  
>>  
>> NETIF="ifname=XXX,bridge=XXX,mac=XXX,host\_ifname=XXX,host\_mac=XXX"  
>>  
>> --netif\_add ifname[,mac,host\_ifname,host\_mac,bridge]  
>>  
>> I also modified --netif\_add to accept empty parameters, for example:  
>>  
>> --netif\_add eth3,,,vmbr3  
>>  
>> I wonder if we can include that into the vzctl release - I will post  
>> the patch if somebody is interested.  
>>  
>  
> Dietmar,  
>  
> it will be useful indeed, please, provide patch to devel@ mailing list.  
>  
>  
Please do so. I've written my own solution for this, but yours looks  
much better.

Arjan

---

---

Subject: AW: Multiple bridge support

Posted by [dietmar](#) on Thu, 03 Jul 2008 07:19:30 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

And here is the vzenetaddr we use (attached).

> >> I wonder if we can include that into the vzctl release - I  
> will post  
> >> the patch if somebody is interested.  
> >>  
> >  
> > Dietmar,  
> >  
> > it will be useful indeed, please, provide patch to devel@

> mailing list.  
>>  
>>  
> Please do so. I've written my own solution for this, but  
> yours looks much better.

## File Attachments

---

1) [vznetaddbr](#), downloaded 737 times

---

---

Subject: Re: AW: Multiple bridge support  
Posted by [kir](#) on Thu, 03 Jul 2008 11:28:30 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Dietmar,

I have committed both the patch and the script to git, see [1] and [2].  
I have modified the script a bit, hope I haven't break anything.

It would be just great if you can provide a patch to vzctl man page  
describing the new parameter, and the according wiki  
modifications/additions.

[1]

<http://git.openvz.org/?p=vzctl;a=commit;h=a16e0ecf72d4f2c7bd08aadbaa8272cbdc9e25a5>

[2]

<http://git.openvz.org/?p=vzctl;a=commit;h=41fb6973bc205c00e25ba73431110ac8e821d6c9>

Dietmar Maurer wrote:

> And here is the vznetaddbr we use (attached).  
>  
>  
>>> I wonder if we can include that into the vzctl release - I  
>>>  
>> will post  
>>  
>>> the patch if somebody is interested.  
>>>  
>>>  
>> Dietmar,  
>>  
>>> it will be useful indeed, please, provide patch to devel@  
>>  
>> mailing list.  
>>  
>>  
>>  
>> Please do so. I've written my own solution for this, but

>> yours looks much better.

>  
>  
>  
> -----  
>

---

---

Subject: Re: AW: Multiple bridge support  
Posted by [kir](#) on Thu, 03 Jul 2008 11:34:45 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

How do you invoke it? Using EXTERNAL\_SCRIPT?

Would be good to have a patch adding (conditional?) invocation of  
vznetaddr to vznetcfg.

Dietmar Maurer wrote:

> And here is the vznetaddr we use (attached).  
>  
>  
>>> I wonder if we can include that into the vzctl release - I  
>>>  
>> will post  
>>  
>>> the patch if somebody is interested.  
>>>  
>>>  
>> Dietmar,  
>>  
>> it will be useful indeed, please, provide patch to devel@  
>>  
>> mailing list.  
>>  
>>>  
>>  
>> Please do so. I've written my own solution for this, but  
>> yours looks much better.  
>>  
>  
>  
> -----  
>

---

---

Subject: AW: AW: Multiple bridge support  
Posted by [dietmar](#) on Thu, 03 Jul 2008 12:30:59 GMT

Hi Kir,

> Von: Kir Kolyshkin [mailto:[kir@openvz.org](mailto:kir@openvz.org)]  
> Gesendet: Donnerstag, 03. Juli 2008 13:35  
> An: [users@openvz.org](mailto:users@openvz.org); Dietmar Maurer  
> Betreff: Re: AW: [Users] Multiple bridge support  
>  
> How do you invoke it? Using EXTERNAL\_SCRIPT?  
>  
> Would be good to have a patch adding (conditional?)  
> invocation of vznetaddr to vznetcfg.

One idea was to add a new global option in vz.conf:

DEF\_BRIDGE=XXXX

If set, we automatically setup the bridge (we need to pass an additional parameter to vznetcfg, but i guess thats no problem at all). That also avoid a hardcoded default bridge name (vmbr0).

Here is the totally untested code. If you like the idea I will test it  
;-)

---

```
#!/bin/sh
CONFIGFILE='@PKGCONFDIR@/vz.conf'

[ -f "$CONFIGFILE" ] &&. $CONFIGFILE

VZNETCFG='@PKGCONFDIR@/vznet.conf'

[ -f "$VZNETCFG" ] && . "$VZNETCFG"

usage()
{
    echo >&2 "vznetcfg init veth <dev> [<bridge>]"
}

init_veth()
{
    local dev="$1"
    local bridge="$2"

    if [ -n "$DEV_BRIDGE" ]; then
        if [ ! -n "$bridge" ]; then
            bridge=$DEV_BRIDGE
        fi
    fi
```

```

echo "Adding interface $dev to bridge $bridge on CT0 for
CT$VEID"
    /sbin/ifconfig $dev 0
    echo 1 > /proc/sys/net/ipv4/conf/$dev/proxy_arp
    echo 1 > /proc/sys/net/ipv4/conf/$dev/forwarding
    /usr/sbin/brctl addif $bridge $dev
else
    ip link set "$dev" up
fi
}

# Call the external script if defined
if [ -n "$EXTERNAL_SCRIPT" -a -x "$EXTERNAL_SCRIPT" ]; then
    export VEID
    exec "$EXTERNAL_SCRIPT" $@
fi

if test $# -le 2; then
    usage
    exit 0
fi

CMD="$1"
case "$CMD$2" in
    initveth)
        if test $# -le 3; then
            usage
            exit 1
        fi

        init_veth "$3" "$4"
        ;;
    *)
        echo "invalid action"
        exit 1
        ;;
esac
exit 0

```

---

Subject: AW: AW: Multiple bridge support  
 Posted by [dietmar](#) on Mon, 07 Jul 2008 04:34:42 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

> It would be just great if you can provide a patch to vzctl  
 > man page describing the new parameter, and the according wiki  
 > modifications/additions.

Here is the patch for the man page.

I am not sure how to edit the wiki. Howto indicate that the feature is only available in newest version from git. Can I use 'version > 3.0.22' ?

- Dietmar

#### File Attachments

1) [vzctl.8.diff](#), downloaded 662 times

---

---

Subject: Re: AW: AW: Multiple bridge support  
Posted by [kir](#) on Thu, 10 Jul 2008 17:42:15 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

I don't quite get it. Is it supposed to be a replacement for vznetaddbr, an addition to it, or is it orthogonal to it? Who and when calls vznetaddbr?

Dietmar Maurer wrote:

> Hi Kir,  
>  
>  
>> Von: Kir Kolyshkin [mailto:[kir@openvz.org](mailto:kir@openvz.org)]  
>> Gesendet: Donnerstag, 03. Juli 2008 13:35  
>> An: [users@openvz.org](mailto:users@openvz.org); Dietmar Maurer  
>> Betreff: Re: AW: [Users] Multiple bridge support  
>>  
>> How do you invoke it? Using EXTERNAL\_SCRIPT?  
>>  
>> Would be good to have a patch adding (conditional?)  
>> invocation of vznetaddbr to vznetcfg.  
>>  
>  
> One idea was to add a new global option in vz.conf:  
>  
> DEF\_BRIDGE=XXXX  
>  
> If set, we automatically setup the bridge (we need to pass an additional  
> parameter to vznetcfg, but i guess thats no problem at all). That also  
> avoid a hardcoded default bridge name (vmbr0).  
>  
> Here is the totally untested code. If you like the idea I will test it  
> ;-)  
>  
> -----  
> #!/bin/sh  
> CONFIGFILE='@PKGCONFDIR@/vz.conf'

```

>
> [ -f "$CONFIGFILE" ] &&. $CONFIGFILE
>
> VZNETCFG='@PKGCONFDIR@/vznet.conf'
>
> [ -f "$VZNETCFG" ] && . "$VZNETCFG"
>
> usage()
> {
>     echo >&2 "vznetcfg init veth <dev> [<bridge>]"
> }
>
> init_veth()
> {
>     local dev="$1"
>     local bridge="$2"
>
>     if [ -n "$DEV_BRIDGE" ]; then
>         if [ ! -n "$bridge" ]; then
>             bridge=$DEV_BRIDGE
>         fi
>         echo "Adding interface $dev to bridge $bridge on CT0 for
> CT$VEID"
>         /sbin/ifconfig $dev 0
>         echo 1 > /proc/sys/net/ipv4/conf/$dev/proxy_arp
>         echo 1 > /proc/sys/net/ipv4/conf/$dev/forwarding
>         /usr/sbin/brctl addif $bridge $dev
>     else
>         ip link set "$dev" up
>     fi
> }
>
> # Call the external script if defined
> if [ -n "$EXTERNAL_SCRIPT" -a -x "$EXTERNAL_SCRIPT" ]; then
>     export VEID
>     exec "$EXTERNAL_SCRIPT" $@
> fi
>
> if test $# -le 2; then
>     usage
>     exit 0
> fi
>
> CMD="$1"
> case "$CMD$2" in
>     initveth)
>         if test $# -le 3; then
>             usage

```

```
>           exit 1
>       fi
>
>       init_veth "$3" "$4"
>       ;;
*>   *)
>       echo "invalid action"
>       exit 1
>       ;;
> esac
> exit 0
>
>
>
```

---

---

Subject: AW: AW: AW: Multiple bridge support

Posted by [dietmar](#) on Fri, 11 Jul 2008 04:46:57 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

> I don't quite get it. Is it supposed to be a replacement for  
> vznetaddbr, an addition to it, or is it orthogonal to it? Who  
> and when calls vznetaddbr?

It merges vznetaddbr into vznetcfg, making  
vznetaddbr obsolete.

- Dietmar

---