
Subject: Multiple bridge support

Posted by [dietmar](#) on Wed, 02 Jul 2008 07:36:42 GMT

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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 soembody is interested.

- Dietmar

Subject: Re: Multiple bridge support

Posted by [Mishin Dmitry](#) on Wed, 02 Jul 2008 17:48:46 GMT

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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 soembody 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
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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"
> >
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> > I also modified --netif_add to accept empty parameters, for example:
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> > I wonder if we can include that into the vzctl release - I
> will post
> > the patch if somebody is interested.
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> Dietmar,
>
> it will be useful indeed, please, provide patch to devel@
> mailing list.
>

File Attachments

1) [vzctl-bridge.diff.gz](#), downloaded 678 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]
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>> I also modified --netif_add to accept empty parameters, for example:
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>> --netif_add eth3,,,,vmbr3
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>> I wonder if we can include that into the vzctl release - I will post
>> the patch if soembody 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
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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 soembody 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 702 times

Subject: Re: AW: Multiple bridge support
Posted by [kir](#) on Thu, 03 Jul 2008 11:28:30 GMT
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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=a16e0ecf72d4f2c7bd08aadbbaa8272cbdc9e25a5>
[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
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>>>> the patch if soembody is interested.
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>>> 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
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How do you invoke it? Using EXTERNAL_SCRIPT?

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

Dietmar Maurer wrote:

> And here is the vznetaddbr we use (attached).

>

>

>>>> I wonder if we can include that into the vzctl release - I

>>>>

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>>

>>>> the patch if soembody 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]
> Gesendet: Donnerstag, 03. Juli 2008 13:35
> An: 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 (vmb0).

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
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> 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 626 times

Subject: Re: AW: AW: Multiple bridge support
Posted by [kir](#) on Thu, 10 Jul 2008 17:42:15 GMT
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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]
>> Gesendet: Donnerstag, 03. Juli 2008 13:35
>> An: 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
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> 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
