
Subject: Howto set static MAC for bridge device?

Posted by [piavlo](#) on Sun, 21 Oct 2007 11:05:30 GMT

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Hi,

Is there a way to assign a static mac to bridge device?

What i've noticed is that each time i add vethXXX.0 device to bridge, the bridge mac address gets changed to the mac of the newly added vethXXX.0 device.

This causes a delay for active connections to all the VE's and the VE0 , since the remote hosts arp entry is now wrong and needs to be revalidated.

The second BIG problem this causes is then i try live migration of one of the VE - on the host to which the VE is migrated the bridge mac gets changed to the mac of the migrated VE, while on the host from which the VE is migrating the bridge has still the same mac. Thus the migration get's stuck and both openvz host bridges have the same macs and everything is in a big mess

```
projsrv1 ~ # brctl show
```

```
bridge name      bridge id          STP enabled      interfaces
br0              8000.00142275864a  no              eth0
```

```
projsrv1 ~ # ip addr
```

```
2: eth0: <BROADCAST,MULTICAST,PROMISC,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
```

```
    link/ether 00:14:22:75:86:4a brd ff:ff:ff:ff:ff:ff
```

```
10: br0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue
```

```
    link/ether 00:14:22:75:86:4a brd ff:ff:ff:ff:ff:ff
```

```
    inet 132.72.41.116/21 brd 132.72.47.255 scope global br0
```

```
projsrv1 ~ # vzctl start 103
```

```
Warning: configuration file for distribution cs-nis-gentoo-amd64-11-10-2007 not found default used
Starting VE ...
```

```
VE is mounted
```

```
Setting CPU units: 120000
```

```
Configure meminfo: 606496
```

```
Configure veth devices: veth103.0
```

```
VE start in progress...
```

```
projsrv1 ~ # ip addr
```

```
2: eth0: <BROADCAST,MULTICAST,PROMISC,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
```

```
    link/ether 00:14:22:75:86:4a brd ff:ff:ff:ff:ff:ff
```

```
10: br0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue
```

```
    link/ether 00:0c:29:8d:0c:cf brd ff:ff:ff:ff:ff:ff
```

```
    inet 132.72.41.116/21 brd 132.72.47.255 scope global br0
```

```
23: veth103.0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue
```

```
    link/ether 00:0c:29:8d:0c:cf brd ff:ff:ff:ff:ff:ff
```

And live migration from projsrv1 to projsrv3 gets stuck.

```

projsrv1# vzmigrate -v -r no --keep-dst --online projsrv3 102
OPT:-v
OPT:-r
OPT:--keep-dst
OPT:--online
OPT:projsrv3
Starting online migration of VE 102 on projsrv3
* status: started
  Loading /etc/vz/vz.conf and /etc/vz/conf/102.conf files
  Check IPs on destination node:
Preparing remote node
  Copying config file
102.conf                                100% 1871    1.8KB/s  00:00
Saved parameters for VE 102
  Creating remote VE root dir
  Creating remote VE private dir
Initializing remote quota
  Quota init
  Turning remote quota on
Syncing private
Live migrating VE
  Suspending VE
Setting up checkpoint...
  suspend...
  get context...
Checkpointing completed succesfully
  Dumping VE
Setting up checkpoint...
  join context..
  dump...
Checkpointing completed succesfully
  Copying dumpfile
dump.102                                100% 161MB 40.3MB/s  00:04
  Syncing private (2nd pass)
Syncing 2nd level quota
  Dumping 2nd level quota
  Copying 2nd level quota
quotadump.102                            100%  21    0.0KB/s  00:00
  Load 2nd level quota
  Undumping VE
Restoring VE ...
Warning: configuration file for distribution cs-nis-gentoo-amd64-11-10-2007 not found default used
Starting VE ...
vzquota : (warning) Quota is running for id 102 already
VE is mounted
  undump...
Setting CPU units: 200000

```

Configure meminfo: 606496
Configure veth devices: veth102.0
... STUCK HERE ...

From ps i see that the following ssh process is stuck

```
ssh,7118 root@projsrv3 vzctl restore 102 --undump --dumpfile /var/tmp/dump.102  
--skip_arpdetect
```

From remote host arp i see that both projsrv1 & projsrv3
get the same MAC address

```
remotehostonthelan# arp -a | grep projsrv  
projsrv3 (132.72.41.118) at 00:0C:29:6D:7B:0E [ether] on eth0  
projsrv1 (132.72.41.116) at 00:0C:29:6D:7B:0E [ether] on eth0
```

Subject: Re: Howto set static MAC for bridge device?
Posted by [piavlo](#) on Sun, 21 Oct 2007 13:54:22 GMT
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I found an option to set mac manually with ifconfig
like ifconfig br0 hw ether 00:14:22:75:86:7e
i can add this command to the EXTERNAL_SCRIPT run by /etc/vz/vznet.conf then VE starts up,
but there is no
such script then VE is shut down, is there any place
i can put the ifconfig br0 hw ether 00:14:22:75:86:7e
command then any of the VE is shuts down?

Thanks

Subject: Re: Howto set static MAC for bridge device?
Posted by [piavlo](#) on Sun, 21 Oct 2007 14:17:08 GMT
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Looks like i found a proper solution, the bridge driver
always sets the mac of the bridge to the lowest mac number
among the interfaces which are enslaved to him.
So the solution is to make sure that VE macs are bigger than eth0 mac or just change the eth0
mac to the lowest possible like
00:0c:00:00:00:01