
Subject: Server4you Server and Connecting to the Internet and from the Internet
Posted by [dragon001](#) on Sun, 25 Feb 2007 00:46:27 GMT

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I've got an new Server with 2 IP Adresses.

The Main Adress Is connected and uprunning.

I assigned the IP Adress to the vServer but, i wasn't abble to get an connection to the internet.
I tried it, by assigning the IP by to the hostsystem as eth0:1 or just assigning it into the vServer.
It didn't work at all.

greetz

draco

Subject: Re: Server4you Server and Connecting to the Internet and from the Internet

Posted by [Vasily Tarasov](#) on Mon, 26 Feb 2007 11:17:37 GMT

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Quote:

I assigned the IP Adress to the vServer but, i wasn't abble to get an connection to the internet.
I tried it, by assigning the IP by to the hostsystem as eth0:1 or just assigning it into the vServer.

Hello,

you shouldn't create eth0:1 or assign IP address in VE!

Please, read manuals! You should use ``vzctl set <veid> --ipadd`` command.

Vasily

Subject: Re: Server4you Server and Connecting to the Internet and from the Internet

Posted by [dragon001](#) on Mon, 26 Feb 2007 17:13:53 GMT

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Ok, first of all, I'm Using Debian Linux 3.1 on two boxes.

Here is, what I did:

I Edited the

/etc/network/interfaces

like this:

```
# /etc/network/interfaces - network interfaces configuration
```

```
# loopback interface
```

```
auto lo
```

```
iface lo inet loopback

# ethernet interface

auto eth0
iface eth0 inet static
  address 11.22.33.152
  network 11.22.33.0
  netmask 255.255.255.0
  broadcast 11.22.33.255
  gateway 11.22.33.1

# virtual interfaces
auto eth0:1
iface eth0:1 inet static
address 11.22.33.172
network 11.22.33.0
netmask 255.255.255.0
broadcast 11.22.33.255
gateway 11.22.33.1
```

the I entered following command twice:

```
#ifup -a
```

Then I assigned it to the VE

```
vzctl set 100 --ipadd 11.22.33.172 --save
```

```
vzctl start 100
```

```
vzctl enter 100
```

But all of it didn't work.

Im trying to tell him where to find the router, but if this doesn't work, I don't know what to do else.

Is it possible that IP Tables blocks the VE?

Subject: Re: Server4you Server and Connecting to the Internet and from the Internet

Posted by [Vasily Tarasov](#) on Mon, 26 Feb 2007 17:16:31 GMT

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You forgot to add --save option, when setting IP address:

```
vzctl set 100 --ipadd 11.22.33.172 --save
```

Subject: Re: Server4you Server and Connecting to the Internet and from the Internet

Posted by [dragon001](#) on Mon, 26 Feb 2007 17:56:22 GMT

forgot to type that during entering the commands in this forum.
The IP got assigned to the ve
^^

Subject: Re: Server4you Server and Connecting to the Internet and from the Internet

Posted by [dragon001](#) on Mon, 26 Feb 2007 18:01:44 GMT

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by the way, more about the ve

```
root@localhost:/# ifconfig -a
```

```
lo      Link encap:Local Loopback
        inet addr:127.0.0.1  Mask:255.0.0.0
        inet6 addr: ::1/128 Scope:Host
        UP LOOPBACK RUNNING  MTU:16436  Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
        TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
```

```
venet0  Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
        inet addr:127.0.0.1  P-t-P:127.0.0.1  Bcast:0.0.0.0  Mask:255.255.255.255
        UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
        TX packets:24 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:0 (0.0 b)  TX bytes:1398 (1.3 KiB)
```

```
venet0:0  Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
        inet addr:11.22.33.172  P-t-P:11.22.33.172  Bcast:0.0.0.0  Mask:255.255.255.255
        UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1
```

the /etc/network/interfaces

```
# This configuration file is auto-generated.
# WARNING: Do not edit this file, otherwise your changes will be lost.
# Please edit template /etc/network/interfaces.template instead.
```

```
# Auto generated venet0 interfaces
auto venet0 lo
iface venet0 inet static
    address 127.0.0.1
    netmask 255.255.255.255
```

```
broadcast 0.0.0.0
up route add -net 192.0.2.1 netmask 255.255.255.255 dev venet0
up route add default gw 192.0.2.1
iface lo inet loopback
```

```
auto venet0:0
iface venet0:0 inet static
address 11.22.33.172
netmask 255.255.255.255
broadcast 0.0.0.0
```

I tried to add routing information or korrekt the netmask, but every time i restarted the ve, every setting is reseted to this.

I tried this as Routes

```
up route add -net 11.22.33.1 netmask 255.255.255.0 venet0
up route add default gw 11.22.33.1 venet0
```

But as i said, vzctl overwrites my settings.

Subject: Re: Server4you Server and Connecting to the Internet and from the Internet

Posted by [rickb](#) on Mon, 26 Feb 2007 19:03:42 GMT

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From in the VE context, you cannot manage ip addressing at all. Any attempts via config files or ifconfig will be futile. Instead, you should use "vzctl set VEID --ipadd x.x.x.x --save" from the HN as already explained and documented in the manual. So, just to be clear, you do not need to / cannot use debians interface management scripts/configs from inside the VE. The VE ifconfig output you provided shows that the address was added correctly to your VE. Assuming your HN can route that address properly, your VE will have network connectivity.

Rick

Subject: Re: Server4you Server and Connecting to the Internet and from the Internet

Posted by [dragon001](#) on Mon, 26 Feb 2007 20:09:28 GMT

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but how do i change the netmask?
My Providers only accepts 255.255.255.0
Also how do I tell him to use the default gateway of the provider?
I enter a nameserver into the ve (resolv.conf)

I don't get it, why it doesn't work???????

Subject: Re: Server4you Server and Connecting to the Internet and from the Internet

Posted by [rickb](#) on Mon, 26 Feb 2007 20:29:12 GMT

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First, have you read the openvz manual?

Everyone on this forum is very friendly and happy to help solve problems to push the project forward. Openvz has excellent documentation and community support- but we cannot learn it for you.

Give a man a fish and he'll eat for a day. Teach a man how to fish and he'll eat for a lifetime.

Subject: Re: Server4you Server and Connecting to the Internet and from the Internet

Posted by [dragon001](#) on Sun, 01 Apr 2007 20:08:05 GMT

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I tried and tried almost everything.

I don't know how to go on any further.

I created it, like it was shown in several Tutorials.

I can't ping inside of the server to the outside.

The only thing that happens is, that ping tries to send an ICMP Request.

But nothing happens.

I tried to check the firewall, but thats not the Problem.

Can't anybody help me?

Subject: Re: Server4you Server and Connecting to the Internet and from the Internet

Posted by [curx](#) on Sun, 01 Apr 2007 21:11:51 GMT

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Hi,

a possible solution can be, to set a private IP to VE, and use DNAT descibed in the wiki (->

http://wiki.openvz.org/Using_NAT_for_VE_with_private_IPs)

with your offical ip (eth0:alias) eth0:1

Subject: Re: Server4you Server and Connecting to the Internet and from the Internet

Posted by [dragon001](#) on Tue, 03 Apr 2007 19:09:19 GMT

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I assined the IP directly to that VPS.

But the Problem is the Subnet mask, that is propaly not working.

How do I find out, if the IP isn't or is accepted by anykind of Firewall?

thx

draco

Subject: Re: Server4you Server and Connecting to the Internet and from the Internet

Posted by [dragon001](#) on Wed, 04 Apr 2007 18:49:26 GMT

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Ok,

ping on the host system works over

eth0 and eth0:1

this is, what ifconfig prints:

```
lo    Link encap:Local Loopback
      inet addr:127.0.0.1  Mask:255.0.0.0
      inet6 addr: ::1/128 Scope:Host
      UP LOOPBACK RUNNING MTU:16436 Metric:1
      RX packets:0 errors:0 dropped:0 overruns:0 frame:0
      TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:0
      RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)

venet0  Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
      inet addr:127.0.0.1 P-t-P:127.0.0.1 Bcast:0.0.0.0 Mask:255.255.255.255
      UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1
      RX packets:0 errors:0 dropped:0 overruns:0 frame:0
      TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:0
      RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)

venet0:0  Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
      inet addr:11.22.33.172 P-t-P:11.22.33.172 Bcast:0.0.0.0 Mask:255.255.255.0
      UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1
```

Ass you can see, venet0:0 is setup correctly, the only mismatching is the subnetmask with 255.255.255.0

How can I correct this, or wath went wrong?

I will try to setup the vps today brandnew and try to bring her up then

thx

draco

Subject: Re: Server4you Server and Connecting to the Internet and from the Internet

Posted by [dragon001](#) on Wed, 04 Apr 2007 20:34:39 GMT

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Here is what i did on this run.

First

```
apt-get install debootstrap
debootstrap --arch i386 sarge /vz/private/777 http://ftp.freenet.de/debian
vzctl set 777 --applyconfig vps.basic --save
echo "OSTEMPLATE=debian-3.1" >> /etc/vz/conf/777.conf
vzctl set 777 --ipadd x.x.x.x --save
vzctl set 777 --nameserver x.x.x.x --save
as Nameserver i used this on:
nameserver 134.109.192.18
```

```
cat << EOF > /vz/private/777/etc/apt/sources.list
deb http://ftp.freenet.de/debian stable main contrib non-free
deb http://security.debian.org stable/updates main contrib non-free
EOF
```

```
vzctl set 777 --hostname hostname --save
```

```
vzctl start 777
```

```
vzctl enter 777
export PATH=/sbin:/usr/sbin:/bin:/usr/bin
```

```
pwconv
```

```
apt-get update
```

The only thing is, I see is failure resolbing
or failed to fetch

I did everything as mentioned inside the manuals.

I don't know what to do else.

I am, how should i say, helpless.

I don't know what i am doing wrong.

Please can someone help me!

thx
draco

Subject: Re: Server4you Server and Connecting to the Internet and from the Internet

Posted by [mh720](#) on Thu, 05 Apr 2007 16:24:55 GMT

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I'm going to take a guess here, are the two IP addresses from your provider on DIFFERENT subnets? If so, give this a try (works for me). Please report back so that I can update the wiki.

Example with hwnode on 1.2.3.0/24 and VE somewhere on 2.3.4.0/29 with a gateway of 2.3.4.1:

Configure hwnode subnet normally. Then to add the second subnet for the VE:

```
node# route add -net 2.3.4.0/29 eth0
node# ip rule add from 2.3.4.0/29 table 1
node# ip route add default dev eth0 via 2.3.4.1 table 1
```

Then do your 'vzctl set veid --ipadd 2.3.4.2 --save' as normal.

That should be it. You can 'man ip' to read more about 'Route tables'. If you add yet another subnet, you might use table 2.

I believe I originally read about this on
https://wiki.openvz.org/Source_based_routing

-mike

Subject: Re: Server4you Server and Connecting to the Internet and from the Internet

Posted by [dragon001](#) on Thu, 05 Apr 2007 20:27:25 GMT

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I got an error message, but i don't know what i did wrong:

```
echo447:~# route add -net 2.3.4.0/29 eth0
route: Netzmaske passt nicht zur Routenadresse
```


Benutzung: route [-nNvee] [-FC] [<AF>] Kernelroutentabelle anzeigen
route [-v] [-FC] {add|del|flush} ... Routentabelle für AF ändern.

route {-h|--help} [<AF>] Genaue Syntax für AF anzeigen.
route {-V|--version} Version/Autor anzeigen und Ende.

-v, --verbose Ausführliche Ausgaben
-n, --numeric don't resolve names
-e, --extend display other/more information
-F, --fib display Forwarding Information Base (default)
-C, --cache Routencache statt FIB anzeigen

<AF>=Use '-A <af>' or '--<af>'; default: inet

Liste möglicher Adressfamilien, die Routen unterstützen:

inet (DARPA Internet) inet6 (IPv6) ax25 (AMPR AX.25)
netrom (AMPR NET/ROM) ipx (Novell IPX) ddp (Appletalk DDP)
x25 (CCITT X.25)

I entered route on the host and got this screen:

host:~# route

Kernel IP Routentabelle

Ziel	Router	Genmask	Flags	Metric	Ref	Use	Iface
8.1.1.1	*	255.255.255.192	U	0	0	0	eth0
7.1.1.1	*	255.255.255.0	U	0	0	0	eth0

MFG
draco
