
Subject: HN and VPS with differen /24 are not working - is this not possible?

Posted by [disaster](#) on Fri, 06 Jun 2008 08:29:48 GMT

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Hello!

HN: IP XX.158.176.27

VPS: IP XX.158.183.99

But VPS cannot reach the internet. When i switch the IP on the VPS to XX.158.176.28 it will work.

Any ideas?

Stefan

Subject: Re: HN and VPS with differen /24 are not working - is this not possible?

Posted by [maratrus](#) on Fri, 06 Jun 2008 09:01:00 GMT

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Hi,

Quote:

HN: IP XX.185.176.27

...

i switch the IP on the VPS to XX.185.176.27

Do HN and VPS have the same IP address?

//-----//-----//-----//-----

It could be many reasons:

- firewall on the HN rejects traffic
- your network configuration doesn't allow to set random IP (your router can reject such kind of traffic)

Without additional details it's very difficult to find out the reason.

Please look at this page

http://forum.openvz.org/index.php?t=tree&goto=27545&#msg_27545

May be additional information can help us. Thank You.

Subject: Re: HN and VPS with differen /24 are not working - is this not possible?

Posted by [disaster](#) on Fri, 06 Jun 2008 09:22:07 GMT

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Sorry i meant XX.185.176.28. So it is on the same /24.

- firewall on the HN rejects traffic

No:

```
# iptables -t nat -L && iptables -t filter -L && iptables -t mangle -L
```

Chain PREROUTING (policy ACCEPT)

```
target    prot opt source                destination
```

Chain POSTROUTING (policy ACCEPT)

```
target    prot opt source                destination
```

Chain OUTPUT (policy ACCEPT)

```
target    prot opt source                destination
```

Chain INPUT (policy ACCEPT)

```
target    prot opt source                destination
```

Chain FORWARD (policy ACCEPT)

```
target    prot opt source                destination
```

```
ACCEPT    0    -- VPSIP anywhere
```

```
ACCEPT    0    -- anywhere            VPSIP
```

Chain OUTPUT (policy ACCEPT)

```
target    prot opt source                destination
```

Chain PREROUTING (policy ACCEPT)

```
target    prot opt source                destination
```

Chain INPUT (policy ACCEPT)

```
target    prot opt source                destination
```

Chain FORWARD (policy ACCEPT)

```
target    prot opt source                destination
```

Chain OUTPUT (policy ACCEPT)

```
target    prot opt source                destination
```

Chain POSTROUTING (policy ACCEPT)

```
target    prot opt source                destination
```

- your network configuration doesn't allow to set random IP (your router can reject such kind of traffic)

Mhm what do you mean with random IP? Also other Servers on the same Switch uses XX.185.183.XX IPs without problems.

OK here are more informations:

HN:

```
ip route list
XX.158.176.0/24 dev eth0 proto kernel scope link src XX.158.176.27
default via XX.158.176.1 dev eth0
```

VPS:

```
# route -n
Kernel IP routing table
Destination Gateway Genmask Flags Metric Ref Use Iface
192.0.2.1 0.0.0.0 255.255.255.255 UH 0 0 0 venet0
0.0.0.0 192.0.2.1 0.0.0.0 UG 0 0 0 venet0
```

I've checked with tcpdump, that traffic goes OUT but not in and this is an ARP problem. If i ping the IP of the VPS from another server in the same network than the HN does not respond.

```
arp -v
Address HWtype HWaddress Flags Mask Iface
VPSIP (incomplete) eth0
```

Subject: Re: HN and VPS with differen /24 are not working - is this not possible?
Posted by [disaster](#) on Fri, 06 Jun 2008 09:30:36 GMT
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Some more informations:
HN:

```
# cat /etc/network/options
ip_forward=yes
spoofprotect=no
syncookies=no
```

sysctl:

```
# sysctl -p
net.ipv4.conf.default.forwarding = 1
net.ipv4.conf.default.proxy_arp = 0
net.ipv4.conf.all.rp_filter = 1
kernel.sysrq = 1
net.ipv4.conf.default.send_redirects = 1
net.ipv4.conf.all.send_redirects = 0
```

net.ipv4.tcp_max_orphans = 131072
net.ipv4.tcp_mem = 720896 865075 1038090
net.ipv4.ip_forward = 1

Subject: Re: HN and VPS with differen /24 are not working - is this not possible?
Posted by [maratrus](#) on Fri, 06 Jun 2008 09:35:07 GMT
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Hi,

one more question before I start thinking
you said that your HN has
Quote:
HN: IP XX.185.176.27

but in the next message
Quote:

XX.158.176.0/24 dev eth0 proto kernel scope link src XX.158.176.27

Subject: Re: HN and VPS with differen /24 are not working - is this not possible?
Posted by [maratrus](#) on Fri, 06 Jun 2008 09:44:19 GMT
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Hi,

how do you set IP address to your VE?
If through vzctl, please show the output:

vzctl set VE_ID --ipadd x.x.x.x

then please show the output (from HN)

arp -n

Subject: Re: HN and VPS with differen /24 are not working - is this not possible?

Posted by [disaster](#) on Fri, 06 Jun 2008 09:52:55 GMT

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.158. is correct - sorry

oh sorry i missed to copy one line on the ip route command
HN:

```
# ip route list
XX.158.183.99 dev venet0 scope link
XX.158.176.0/24 dev eth0 proto kernel scope link src XX.158.176.27
default via XX.158.176.1 dev eth0
```

```
#vzctl set 103 --ipadd XX.158.183.99
Adding IP address(es): XX.158.183.99
WARNING: Settings were not saved and will be resetted to original values on next start (use
--save flag)
```

```
arp -n
Address                HWtype  HWaddress      Flags Mask    Iface
XX.158.176.1           ether    00:14:22:15:DB:0D  C             eth0
```

I can ping the VPS IP from the HN without any problems:

```
ping XX.158.183.99
PING XX.158.183.99 (XX.158.183.99) 56(84) bytes of data.
64 bytes from XX.158.183.99: icmp_seq=1 ttl=64 time=0.046 ms
64 bytes from XX.158.183.99: icmp_seq=2 ttl=64 time=0.012 ms
```

Subject: Re: HN and VPS with differen /24 are not working - is this not possible?

Posted by [maratrus](#) on Fri, 06 Jun 2008 11:19:53 GMT

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Hi,

sorry for the little delay

please try the following (on the HN):

ip neigh add proxy XX.158.183.99 dev eth0

does it help?

Subject: Re: HN and VPS with differen /24 are not working - is this not possible?

Posted by [disaster](#) on Fri, 06 Jun 2008 12:25:40 GMT

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Yeah this helps. Is this a bug in OpenVZ? Or is it a problem by me?

Subject: Re: HN and VPS with differen /24 are not working - is this not possible?

Posted by [disaster](#) on Fri, 06 Jun 2008 14:22:07 GMT

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it seems to be a feature

http://bugzilla.openvz.org/show_bug.cgi?id=771
