
Subject: *SOLVED* Unable to access VE from outside
Posted by [marcot](#) on Wed, 13 Sep 2006 23:59:03 GMT
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Hi all,

after going through the doc's and lists over and over again i still can't get my stuff working :-/.

I'm using Suse 10.0 as the host system, and the precached Suse10 within the VE.

I do have several public IPs, whereas the host owns one and one of the others is assigned to the VE. However, both IPs are not within the same subnet.

Works fine:

- ping the VE from the HN
- ping the HN from the VE
- ping the Internet (incl. DNS) from the VE

Doesn't work:

- ping / access the VE from the Internet.

I've thought about adding the (additional) public IP to the physical eth card on the HN and to assign a private IP to the VE, routing the traffic in between them (SNAT / DNAT), however i think i'm on the wrong road here and there's an easier way how to do it.

As far as i read the posts assigning the public IP to the VE should be the only thing to make it happen ?

Any clue what i've missed / what might be wrong ?

sysctl net.ipv4.ip_forward is set to 1, and the problem persists with and w/o the firewall on HN being present.

Thanks & Rgds,
Marco

Subject: Re: Unable to access VE from outside
Posted by [Vasily Tarasov](#) on Thu, 14 Sep 2006 06:30:36 GMT
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Hell, Marco,

It should work without SNAT/DNAT if you have public IP for VE.

Can you, please, provide output of
ifconfig -a and route -nv inside VE and on HN?

Thanks.

Subject: Re: Unable to access VE from outside
Posted by [marcot](#) on Thu, 14 Sep 2006 10:08:20 GMT
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Hi Vass,

shure, here we are.

In below´s config i´ve been adding xx.yy.180.203 as eth1:203 to the HN (this one is pingable from outside world) whereas the VE carries xx.yy.180.202 (which is unreachable from outside).

Both are public IPs.

HN:

ifconfig -a

```
eth1    Link encap:Ethernet  HWaddr 00:16:17:18:19:BC
        inet addr:xx.yy.9.37  Bcast:xx.yy.9.63  Mask:255.255.255.224
        inet6 addr: xx::yy:zz:aa:bb/64 Scope:Link
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:22815 errors:0 dropped:0 overruns:0 frame:0
        TX packets:20538 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1000
        RX bytes:2501799 (2.3 Mb)  TX bytes:3500666 (3.3 Mb)
        Interrupt:177 Base address:0x6000

eth1:203 Link encap:Ethernet  HWaddr 00:16:17:18:19:BC
        inet addr:xx.yy.180.203  Bcast:xx.yy.180.207  Mask:255.255.255.248
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        Interrupt:177 Base address:0x6000

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)
```

```

sit0    Link encap:IPv6-in-IPv4
        NOARP MTU:1480 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
        UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1
        RX packets:37 errors:0 dropped:0 overruns:0 frame:0
        TX packets:29 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:2779 (2.7 Kb) TX bytes:7312 (7.1 Kb)

```

```
route -nv
```

```

Kernel IP routing table
Destination Gateway Genmask Flags Metric Ref Use Iface
xx.yy.180.202 0.0.0.0 255.255.255.255 UH 0 0 0 venet0
xx.yy.180.200 xx.yy.180.201 255.255.255.248 UG 0 0 0 eth1
xx.yy.9.32 0.0.0.0 255.255.255.224 U 0 0 0 eth1
169.254.0.0 0.0.0.0 255.255.0.0 U 0 0 0 eth1
127.0.0.0 0.0.0.0 255.0.0.0 U 0 0 0 lo
0.0.0.0 xx.yy.9.33 0.0.0.0 UG 0 0 0 eth1

```

```
VE:
```

```
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:29 errors:0 dropped:0 overruns:0 frame:0
        TX packets:37 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:7312 (7.1 Kb) TX bytes:2779 (2.7 Kb)

```

```
venet0:0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
  inet addr:xx.yy.180.202 P-t-P:xx.yy.180.202 Bcast:0.0.0.0 Mask:255.255.255.255
  UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1
```

route -nv

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
191.255.255.0	0.0.0.0	255.255.255.0	U	0	0	0	venet0
127.0.0.0	0.0.0.0	255.0.0.0	U	0	0	0	lo
0.0.0.0	191.255.255.1	0.0.0.0	UG	0	0	0	venet0

Thanks in advance !

Subject: Re: Unable to access VE from outside
Posted by [Vasily Tarasov](#) on Thu, 14 Sep 2006 10:42:08 GMT
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Hmmm... Seems, that it should work....

BTW, If you set xx.yy.180.203 ip for VE does it work?
Maybe it's a bad IP .202, I mean, it's blocked somewhere on gateway...

Subject: Re: Unable to access VE from outside
Posted by [marcot](#) on Thu, 14 Sep 2006 10:51:50 GMT
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Hi Vass,

no, just tried to assign another IP and restarted VE - no luck.

As from the HN there's no issue at all, i can access the VE as desired.

One point which puzzles me: When just assigning the IP to the VE and nowhere else, how does the external gateway know that my HN will take requests for that IP ?

Thanks & Rgds,
Marco

Subject: Re: Unable to access VE from outside
Posted by [marcot](#) on Thu, 14 Sep 2006 11:00:12 GMT
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Dough !

I've put the venet device to the DMZ zone in one of my previous trials - this caused the issue

Setting it back to external zone did it - now it works fine

(still no clue why it didn't work with FW turned off in previous trials, however)

Thanks for your support and sorry for the hazzle...

Rgds,
Marco
