
Subject: Network Problem

Posted by [pooyan](#) on Fri, 14 Nov 2008 15:30:42 GMT

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Hello I have installed OpenVz on ubuntu and my Ve templates are Centos-4 .

I have little problem

I have installed VE and I add this ip 192.168.2.1 .

I want to add another valid address to this vps so I could access It from internet i tried everything but i couldn't solve it.

can you tell me how to add this static IP 83.147.250.101

to my vps to do this i should add a subnet of 255.255.254.0 and default gateway of 83.147.250.2 to connect to internet with my Ve.

i can connect to internet from my HN.

But my Ve dosen't work

thnx.

Subject: Re: Network Problem

Posted by [maratrus](#) on Fri, 14 Nov 2008 15:42:21 GMT

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Hello,

first of all could you please specify the preferable interface which you are intend to use inside VE (venet or veth)?

in case of venet:

- you should set appropriate sysctl parameters as described for example here:

http://wiki.openvz.org/Quick_installation#sysctl

- to add 83.147.250.101 use standard "vzctl set \$VEID --ipadd \$IP --save" syntax (don't bother about netmask. Because you have default gateway pointing to venet0 inside VE every packet that's going out of your VE first of all reaches HN and you should set appropriate route on the HN (may be pointing to 83.147.250.2 or may be you already have such route on the HN and in this case you haven't to do additional steps))

Subject: Re: Network Problem

Posted by [pooyan](#) on Fri, 14 Nov 2008 18:55:46 GMT

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Hello again

I use Venet

I have added this setting to my /etc/sysctl.conf

but after I add 83.147.250.101 to my Ve But I can not access it from outside I don't know what is my problem.

it is my routing table

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
192.168.2.1	*	255.255.255.255	UH	0	0	0	venet0
83.147.250.101	*	255.255.255.255	UH	0	0	0	venet0
83.147.250.0	*	255.255.254.0	U	0	0	0	eth0
default	83.147.250.2	0.0.0.0	UG	100	0	0	eth0

I think you can help.

what do i need to change to connect it to internet?

it is better to know that eth0 is connected to internet

Subject: Re: Network Problem

Posted by [maratrus](#) on Fri, 14 Nov 2008 19:05:57 GMT

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Hello,

1. First of all make sure that 83.147.250.101 is a valid ip address, i.e. it is workable and you are allowed to use it (this information should be obtained from your provider).
2. Make sure that you are able to get your VE from HN for example try to ping 83.147.250.101 from inside the HN. Is it possible?
3. Make sure that you have no iptables rules that may be a reason of the problem (either on the HN or inside the VE).
4. Please show "arp -n" from the HN.
5. Try to ping your VE from outside, at the same time run tcpdump on the HN on eth0 and venet0 interfaces and inside the VE on the venet interce and show the output please.
6. Also show "ip a l", "ip rule list", "ip r l" (from the HN and from inside the VE)

Subject: Re: Network Problem

Posted by [pooyan](#) on Fri, 14 Nov 2008 19:31:27 GMT

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1.it is a valid address and I have this range from 83.147.250.1 to 83.147.250.255 expect 83.147.250.2 as the gateway and 83.147.250.16 as my DNS server and i have set 83.147.250.190 for my HN and it is working from outside and i control it by SSH.

2.yes it is able to ping 83.147.250.101 from inside of the HN.

```
ping 83.147.250.101
PING 83.147.250.101 (83.147.250.101) 56(84) bytes of data.
64 bytes from 83.147.250.101: icmp_seq=1 ttl=64 time=0.160 ms
64 bytes from 83.147.250.101: icmp_seq=2 ttl=64 time=0.111 ms
64 bytes from 83.147.250.101: icmp_seq=3 ttl=64 time=0.108 ms
64 bytes from 83.147.250.101: icmp_seq=4 ttl=64 time=0.109 ms
```

```
3.iptables -L
sudo iptables -L
[sudo] password for pooyan:
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
```

```
4.ping 83.147.250.101
Pinging 83.147.250.101 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 83.147.250.101:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

5.I don't know how to it

6.From HN

```
----root@ubuntu:/home/pooyan# ip a l
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 00:17:9a:78:57:5e brd ff:ff:ff:ff:ff:ff
    inet 83.147.250.190/23 brd 83.147.251.255 scope global eth0
    inet6 fe80::217:9aff:fe78:575e/64 scope link
        valid_lft forever preferred_lft forever
3: eth1: <BROADCAST,MULTICAST> mtu 1500 qdisc noop qlen 1000
    link/ether 00:15:e9:82:69:10 brd ff:ff:ff:ff:ff:ff
4: venet0: <BROADCAST,POINTOPOINT,NOARP,UP,LOWER_UP> mtu 1500 qdisc noqueue
    link/void
----root@ubuntu:/home/pooyan# ip rule list
0:    from all lookup local
```

32766: from all lookup main
32767: from all lookup default

```
----root@ubuntu:/home/pooyan# ip r l
192.168.2.1 dev venet0 scope link
83.147.250.101 dev venet0 scope link
83.147.250.0/23 dev eth0 proto kernel scope link src 83.147.250.190
default via 83.147.250.2 dev eth0 metric 100
```

From Ve It self

```
-----[root@ubuntu ~]# ip a l
1: lo: <LOOPBACK,UP,10000> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: venet0: <BROADCAST,POINTOPOINT,NOARP,UP,10000> mtu 1500 qdisc noqueue
    link/void
    inet 127.0.0.1/32 scope host venet0
    inet 192.168.2.1/32 brd 192.168.2.1 scope global venet0:0
    inet 83.147.250.101/32 brd 83.147.250.101 scope global venet0:1
    inet 192.168.2.2/32 brd 192.168.2.2 scope global venet0:2
```

```
-----[root@ubuntu ~]# ip rule list
0:    from all lookup local
32766: from all lookup main
32767: from all lookup default
```

```
----ip r l
192.0.2.0/24 dev venet0 scope host
169.254.0.0/16 dev venet0 scope link
default via 192.0.2.1 dev venet0
```

Subject: Re: Network Problem
Posted by [maratrus](#) on Mon, 17 Nov 2008 07:36:39 GMT
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Hello,

I have a suspicion what could it be.

You have set several ip addresses to your VE and when a packet goes out of your VE it has to have a source ip address and it is set as "192.168.2.1". Of course, internet becomes unreachable.

Why do you need 192.168.2.1 and 192.168.2.2 ip addresses inside your VE?

To avoid this situation try to explicitly add appropriate routes inside VE for example:

```
# ip r del default
# ip r add 192.168.2.0/24 dev venet0 src 192.168.2.1
# ip r add default dev venet0 src 83.147.250.101
```

It's just an example. You can change it accordingly your purposes.
