
Subject: *SOLVED* DNS lookup not working inside the VPS

Posted by [bfullmer](#) on Wed, 11 Apr 2007 00:25:59 GMT

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I created the VPS. The VPS can ping outside IP addresses, but fails to find domains. However on the Node side, both are possible. I configured the VPS with valid nameserver ip addresses. The IP address can be reached from inside the VE. What am I missing?

Subject: Re: DNS lookup not working inside the VPS

Posted by [curx](#) on Wed, 11 Apr 2007 07:22:01 GMT

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Is a "firewall" enabled on your hostnode (VE0) ?

Subject: Re: DNS lookup not working inside the VPS

Posted by [bfullmer](#) on Wed, 11 Apr 2007 21:32:38 GMT

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That was it! Thank you.

Subject: Re: DNS lookup not working inside the VPS

Posted by [bfullmer](#) on Wed, 18 Apr 2007 07:29:24 GMT

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Okay.

I rebuilt the box. Again I have the same issue. I can ping the ip and domain from node. But can not resolve dns inside the VPS. I believe I have disabled the firewall on the Node. This is very frustrating! It was working before, but now it doesn't.

```
[root@ut-ve0001 ~]# service iptables stop
Flushing firewall rules:                [ OK ]
Setting chains to policy ACCEPT: mangle filter [ OK ]
Unloading iptables modules:             [FAILED]
[root@ut-ve0001 ~]#
```

What do I do next?

Subject: Re: DNS lookup not working inside the VPS

Posted by [Vasily Tarasov](#) on Wed, 18 Apr 2007 08:04:31 GMT

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How have you configured DNS server for your VE? By vzctl command or just from inside VE by modifying /etc/resolv.conf?

Thanks.

Subject: Re: DNS lookup not working inside the VPS

Posted by [bfullmer](#) on Wed, 18 Apr 2007 18:11:14 GMT

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```
# vzctl create 101 --config vps.12
# vzctl set 101 --onboot yes --save
# vzctl set 101 --hostname vps1001.tele-bridge.net --save
# vzctl set 101 --ipadd 209.41.77.227 --save
# vzctl set 101 --nameserver 216.194.124.21 --save
# vzctl start 101
```

from the node:

```
[root@ut-ve0001 ~]# ping yahoo.com
PING yahoo.com (66.94.234.13) 56(84) bytes of data.
64 bytes from w2.rc.vip.scd.yahoo.com (66.94.234.13): icmp_seq=1 ttl=50 time=23.5 ms
64 bytes from w2.rc.vip.scd.yahoo.com (66.94.234.13): icmp_seq=2 ttl=50 time=23.6 ms
64 bytes from w2.rc.vip.scd.yahoo.com (66.94.234.13): icmp_seq=3 ttl=50 time=24.8 ms
```

now from VE 101:

```
# vzctl enter 101
entered into VE 101
```

```
# cat /etc/resolv.conf
nameserver 216.194.124.21
```

```
# ping yahoo.com
ping: unknown host yahoo.com
```

but can ping the IP for yahoo.com from the VE

```
# ping 66.94.234.13
PING 66.94.234.13 (66.94.234.13) 56(84) bytes of data.
64 bytes from 66.94.234.13: icmp_seq=1 ttl=49 time=24.8 ms
64 bytes from 66.94.234.13: icmp_seq=2 ttl=49 time=24.0 ms
64 bytes from 66.94.234.13: icmp_seq=3 ttl=49 time=23.7 ms
```

Subject: Re: DNS lookup not working inside the VPS
Posted by [Vasily Tarasov](#) on Thu, 19 Apr 2007 06:44:25 GMT
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Hello,

I know, you wrote, that firewall is off, but however, can you, please, post here the output of the following commands:

```
/sbin/iptables -L -nv  
/sbin/iptables -t nat -L -nv  
/sbin/ip a l  
/sbin/ip r l
```

Please, do this commands in VE and on HOST!

One more question, can you ping the IP of your DNS server from VE? I mean `/bin/ping 216.194.124.21`.

BTW, can you give an access to the node?

Thank you,
Vasily.

Subject: Re: DNS lookup not working inside the VPS
Posted by [bfullmer](#) on Thu, 19 Apr 2007 15:01:50 GMT
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NODE:

```
[root@ut-ve0001 ~]# /sbin/iptables -L -nv  
Chain INPUT (policy ACCEPT 79722 packets, 110M bytes)  
pkts bytes target prot opt in out source destination
```

```
Chain FORWARD (policy ACCEPT 3114 packets, 364K bytes)  
pkts bytes target prot opt in out source destination
```

```
Chain OUTPUT (policy ACCEPT 44684 packets, 3034K bytes)  
pkts bytes target prot opt in out source destination
```

```
[root@ut-ve0001 ~]# /sbin/iptables -t nat -L -nv  
-bash: /sbin/iptables: No such file or directory
```

```
[root@ut-ve0001 ~]# /sbin/ip a l
```

```
2: 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
```

```
4: eth0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc pfifo_fast qlen 1000
```

```
link/ether 00:20:ed:05:58:2a brd ff:ff:ff:ff:ff:ff
inet 192.168.15.201/24 brd 192.168.15.255 scope global eth0
6: eth1: <BROADCAST,MULTICAST,UP,10000> mtu 1500 qdisc pfifo_fast qlen 1000
link/ether 00:20:ed:05:58:2b brd ff:ff:ff:ff:ff:ff
inet 209.41.77.226/28 brd 209.41.77.239 scope global eth1
inet6 fe80::220:edff:fe05:582b/64 scope link
    valid_lft forever preferred_lft forever
8: sit0: <NOARP> mtu 1480 qdisc noop
link/sit 0.0.0.0 brd 0.0.0.0
1: venet0: <BROADCAST,POINTOPOINT,NOARP,UP,10000> mtu 1500 qdisc noqueue
link/void
[root@ut-ve0001 ~]# /sbin/ip r l
209.41.77.236 dev venet0 scope link src 209.41.77.226
209.41.77.224/28 dev eth1 proto kernel scope link src 209.41.77.226
192.168.15.0/24 dev eth0 proto kernel scope link src 192.168.15.201
169.254.0.0/16 dev eth1 scope link
default via 209.41.77.225 dev eth1
[root@ut-ve0001 ~]#
```

inside VE 1010

```
[root@ut-ve0001 ~]# vzctl enter 1010
entered into VE 1010
[root@vps1010 /]# ping yahoo.com
ping: unknown host yahoo.com
[root@vps1010 /]# exit
logout
exited from VE 1010
```

```
[root@ut-ve0001 ~]# /sbin/iptables -L -nv
Chain INPUT (policy ACCEPT 79722 packets, 110M bytes)
pkts bytes target prot opt in out source destination
```

```
Chain FORWARD (policy ACCEPT 3114 packets, 364K bytes)
pkts bytes target prot opt in out source destination
```

```
Chain OUTPUT (policy ACCEPT 44684 packets, 3034K bytes)
pkts bytes target prot opt in out source destination
```

```
[root@ut-ve0001 ~]# /sbin/iptables -t nat -L -nv
-bash: /sbin/iptables: No such file or directory
[root@ut-ve0001 ~]# /sbin/ip a l
```

```
2: 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
4: eth0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc pfifo_fast qlen 1000
link/ether 00:20:ed:05:58:2a brd ff:ff:ff:ff:ff:ff
inet 192.168.15.201/24 brd 192.168.15.255 scope global eth0
```

```

6: eth1: <BROADCAST,MULTICAST,UP,10000> mtu 1500 qdisc pfifo_fast qlen 1000
  link/ether 00:20:ed:05:58:2b brd ff:ff:ff:ff:ff:ff
  inet 209.41.77.226/28 brd 209.41.77.239 scope global eth1
  inet6 fe80::220:edff:fe05:582b/64 scope link
    valid_lft forever preferred_lft forever
8: sit0: <NOARP> mtu 1480 qdisc noop
  link/sit 0.0.0.0 brd 0.0.0.0
1: venet0: <BROADCAST,POINTOPOINT,NOARP,UP,10000> mtu 1500 qdisc noqueue
  link/void
[root@ut-ve0001 ~]# /sbin/ip r l
209.41.77.236 dev venet0 scope link src 209.41.77.226
209.41.77.224/28 dev eth1 proto kernel scope link src 209.41.77.226
192.168.15.0/24 dev eth0 proto kernel scope link src 192.168.15.201
169.254.0.0/16 dev eth1 scope link
default via 209.41.77.225 dev eth1
[root@ut-ve0001 ~]#
[root@ut-ve0001 ~]# vzctl enter 1010
entered into VE 1010
[root@vps1010 /]# /sbin/iptables -L -nv
Chain INPUT (policy ACCEPT 1489 packets, 135K bytes)
 pkts bytes target prot opt in out source destination

Chain FORWARD (policy ACCEPT 0 packets, 0 bytes)
 pkts bytes target prot opt in out source destination

Chain OUTPUT (policy ACCEPT 1559 packets, 225K bytes)
 pkts bytes target prot opt in out source destination
[root@vps1010 /]# /sbin/iptables -t nat -L -nv
-bash: /sbin/iptables: No such file or directory
[root@vps1010 /]# /sbin/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
3: venet0: <BROADCAST,POINTOPOINT,NOARP,UP,10000> mtu 1500 qdisc noqueue
  link/void
  inet 127.0.0.1/32 scope host venet0
  inet 209.41.77.236/32 brd 209.41.77.236 scope global venet0:0
[root@vps1010 /]# /sbin/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
[root@vps1010 /]#

/bin/ping 216.194.124.21
PING 216.194.124.21 (216.194.124.21) 56(84) bytes of data.
64 bytes from 216.194.124.21: icmp_seq=1 ttl=63 time=1.62 ms

```

64 bytes from 216.194.124.21: icmp_seq=2 ttl=63 time=0.428 ms

--- 216.194.124.21 ping statistics ---

2 packets transmitted, 2 received, 0% packet loss, time 1000ms

rtt min/avg/max/mdev = 0.428/1.028/1.628/0.600 ms

[root@ut-ve0001 ~]# vzlist

```
  VEID   NPROC STATUS IP_ADDR   HOSTNAME
  1010    17 running 209.41.77.236 vps1010.tele-bridge.net
```

[root@ut-ve0001 ~]# vzctl enter 1010

entered into VE 1010

[root@vps1010 /]# /bin/ping 216.194.124.21

PING 216.194.124.21 (216.194.124.21) 56(84) bytes of data.

64 bytes from 216.194.124.21: icmp_seq=1 ttl=62 time=1.61 ms

64 bytes from 216.194.124.21: icmp_seq=2 ttl=62 time=0.408 ms

64 bytes from 216.194.124.21: icmp_seq=3 ttl=62 time=0.499 ms

--- 216.194.124.21 ping statistics ---

3 packets transmitted, 3 received, 0% packet loss, time 2000ms

rtt min/avg/max/mdev = 0.408/0.841/1.616/0.549 ms

[root@vps1010 /]#

[root@vps1010 /]# cat /etc/resolv.conf

nameserver 216.194.124.21

[root@vps1010 /]# ping yahoo.com

ping: unknown host yahoo.com

It should work! I can't figure out what is going on.

Subject: *SLOVED* Re: DNS lookup not working inside the VPS

Posted by [bfullmer](#) on Fri, 20 Apr 2007 15:20:30 GMT

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I set up second DNS server for your VE and now it works well:

[root@ut-ve0001 ~]# cat /etc/resolv.conf

search tele-bridge.com

nameserver 216.194.124.21

nameserver 216.194.124.22

[root@ut-ve0001 ~]# vzctl set 1010 --nameserver 216.194.124.22 --save

File resolv.conf was modified

Saved parameters for VE 1010

[root@ut-ve0001 ~]# vzctl exec 1010 ping gmail.com

PING gmail.com (72.14.253.83) 56(84) bytes of data.
64 bytes from po-in-f83.google.com (72.14.253.83): icmp_seq=1 ttl=231 time=82.5 ms
64 bytes from po-in-f83.google.com (72.14.253.83): icmp_seq=2 ttl=231 time=83.5 ms

[root@ut-ve0001 ~]#

So the reason of the problem is that your first DNS server (216.194.124.21), but the second one (216.194.124.22) works.

Vasily

Subject: Re: *SLOVED* Re: DNS lookup not working inside the VPS
Posted by [jpedroza2k](#) on Fri, 27 Apr 2007 21:42:29 GMT
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Hello,
I am running into this same issue. Whenever I create a VE it can't do any kind of hostname lookups. I have disabled the iptables firewall, added 2 working name servers and still nothing. Any help would be appreciated.

Jared Pedroza

Subject: Re: *SLOVED* Re: DNS lookup not working inside the VPS
Posted by [Vasily Tarasov](#) on Sat, 28 Apr 2007 06:25:56 GMT
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Hello,

goeldi reports that he found the following issue:
if you boot your node with iptables and then flush the rules - DNS doesn't work, but if you boot the node without iptables (disabled in initscripts) - everything works great.

Can you confirm it, please?

Thanks,
Vasily.

Subject: Re: *SLOVED* Re: DNS lookup not working inside the VPS
Posted by [jpedroza2k](#) on Mon, 30 Apr 2007 18:16:45 GMT
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Ok, I am an idiot. I updated the VPS not the node, after removing iptables from the node it works

fine.

Thanks,

Jared Pedroza
