
Subject: Re: Can't resolve host address within container [SOLVED]

Posted by [plotinus](#) on Sat, 11 Jun 2011 13:22:01 GMT

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Hi all,

First of all, I apologize for my poor english

I am a total newbie and I am desperated.

I've installed openVZ in a CentOS 5.6, I can work with containers but i can't resolve any internet address within containers.

I just can ping, but when I make a wget, I always receive a wget: unable to resolve host address "google.com" message.

I've read lots of forums and messages, but I've found no solution. I'm not an expert in linux, nor networks.

I create the containers as follows:

```
vzctl create 101 --ostemplate fedora-14-x86_64
vzctl set 101 --ipadd 192.168.1.101
vzctl set 101 --nameserver 62.14.4.64 --nameserver 62.14.4.65
```

My /etc/sysctl.conf file:

```
# Kernel sysctl configuration file for Red Hat Linux
```

```
#
```

```
# For binary values, 0 is disabled, 1 is enabled.  See sysctl(8) and
# sysctl.conf(5) for more details.
```

```
# Controls IP packet forwarding
```

```
net.ipv4.ip_forward = 1
```

```
net.ipv4.conf.default.forwarding = 1
```

```
net.ipv4.conf.all.forwarding = 1
```

```
net.ipv4.conf.default.proxy_arp = 0
```

```
# Controls source route verification
```

```
net.ipv4.conf.default.rp_filter = 1
```

```
net.ipv4.conf.all.rp_filter = 1
```

```
# Do not accept source routing
```

```
net.ipv4.conf.default.accept_source_route = 0
```

```
net.ipv4.conf.default.send_redirects = 1
```

```
net.ipv4.conf.all.send_redirects = 0
```

```
# Controls the System Request debugging functionality of the kernel
```

```
kernel.sysrq = 1
```

```
# Controls whether core dumps will append the PID to the core filename  
# Useful for debugging multi-threaded applications  
kernel.core_uses_pid = 1
```

```
# Controls the use of TCP syncookies  
net.ipv4.tcp_syncookies = 1
```

```
# Controls the maximum size of a message, in bytes  
kernel.msgmnb = 65536
```

```
# Controls the default maximum size of a message queue  
kernel.msgmax = 65536
```

```
# Controls the maximum shared segment size, in bytes  
kernel.shmmax = 68719476736
```

```
# Controls the maximum number of shared memory segments, in pages  
kernel.shmall = 4294967296
```

My /etc/resolv.conf file:

```
nameserver 62.14.4.64  
nameserver 62.14.4.65
```

```
Result of ifconfig:eth0    Link encap:Ethernet  HWaddr 00:1E:90:E5:B8:22  
    inet addr:192.168.1.12  Bcast:192.168.1.255  Mask:255.255.255.0  
    inet6 addr: fe80::21e:90ff:fee5:b822/64 Scope:Link  
    UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1  
    RX packets:449 errors:0 dropped:0 overruns:0 frame:0  
    TX packets:311 errors:0 dropped:0 overruns:0 carrier:0  
    collisions:0 txqueuelen:1000  
    RX bytes:45496 (44.4 KiB)  TX bytes:65981 (64.4 KiB)  
    Interrupt:233 Base address:0xc000
```

```
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:8 errors:0 dropped:0 overruns:0 frame:0  
    TX packets:8 errors:0 dropped:0 overruns:0 carrier:0  
    collisions:0 txqueuelen:0  
    RX bytes:560 (560.0 b)  TX bytes:560 (560.0 b)
```

```
venet0  Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
```

inet6 addr: fe80::1/128 Scope:Link
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)

virbr0 Link encap:Ethernet HWaddr 00:00:00:00:00:00
inet addr:192.168.122.1 Bcast:192.168.122.255 Mask:255.255.255.0
inet6 addr: fe80::200:ff:fe00:0/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:39 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:0 (0.0 b) TX bytes:6913 (6.7 KiB)

Please can anyone help me? I don't know what can I do, I'm testing and changing without direction.

Thanks for your interest!

Added:

I tested:

ifconfig venet0 192.168.1.102 netmask 255.255.255.0 broadcast 192.168.1.255 and container 102 wgot web pages!

Only for the first time... never more!

Subject: Re: Can't resolve host address within container
Posted by [Kristian0911](#) on Mon, 13 Jun 2011 05:40:00 GMT
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Hi,

Try to set resolvers for the container as :

nameserver 8.8.8.8
nameserver 208.67.222.222
nameserver 208.68.222.222

Then try to wget..... It should work for you

Subject: Re: Can't resolve host address within container
Posted by [plotinus](#) on Mon, 13 Jun 2011 07:40:09 GMT
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Thank you for your answer!
But it doesn't work, "unable to resolve host address" again.
Aaagghhh!!!

Subject: Re: Can't resolve host address within container

Posted by [curx](#) on Mon, 13 Jun 2011 11:56:34 GMT

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Hi,

Your container has a "private" IPv4 Address and should reach a official IPv4,
see OpenVZ Wiki http://wiki.openvz.org/Using_NAT_for_container_with_private_IPs#How_to_provide_access_for_container_to_Internet

Bye,
Thorsten

Subject: Re: Can't resolve host address within container

Posted by [plotinus](#) on Mon, 13 Jun 2011 12:17:12 GMT

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Thank you, Thorsten,
I will study it and test it. I'll say you if it goes or not (I hope yes).

Subject: Re: Can't resolve host address within container

Posted by [plotinus](#) on Tue, 14 Jun 2011 15:43:18 GMT

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iptables crashed, but I'm thinking...

I want to virtualize some web sites and to reach the containers (my web sites) thru the internet: I want to see my website using the browser, say writing `h_t_t_p://mydomain.com`.

Do I need to have internal IP addresses like 192.168.1.x?

Now I create a container with an external IP, not an internal one:

`vzctl create 101` (I use a config file)

`vzctl set 101 --ipadd 85.43.xx.xx` (the IP of mydomain.com)

For the moment, let's forget iptables.

If I create my containers using an external IP, do I have access to the internet? (for the moment it doesn't happen, maybe for the crash of iptables. I think I must reinstall CentOS!).

Subject: Re: Can't resolve host address within container [SOLVED]

Posted by [plotinus](#) on Thu, 16 Jun 2011 21:42:11 GMT

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Finally I did it!

Your post was the solution, thank you!! It was the information I needed.

Yes, the containers (in my case) must have a private IP, not a public one (I was wrong) and then your link applies.

The problem is iptables, but if I stop iptables, I get access to/from the internet.

But this is another story....

Thank you again

Subject: Re: Can't resolve host address within container [SOLVED]

Posted by [sarh877](#) on Mon, 28 Oct 2013 05:02:02 GMT

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Hi,

I got the same problem like you. and when I show ifconfig on my container,

it shows:

(the container does not have eth0)

```
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:8 errors:0 dropped:0 overruns:0 frame:0
        TX packets:8 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:560 (560.0 b)  TX bytes:560 (560.0 b)

venet0  Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
        inet6 addr: fe80::1/128 Scope:Link
        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)

virbr0  Link encap:Ethernet  HWaddr 00:00:00:00:00:00
        inet addr:192.168.122.1  Bcast:192.168.122.255  Mask:255.255.255.0
        inet6 addr: fe80::200:ff:fe00:0/64 Scope:Link
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
```

TX packets:39 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:0 (0.0 b) TX bytes:6913 (6.7 KiB)

please help me to find out the problem.thanks so much!
