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Subject: \*SOLVED\* Can ping but not connect from a custom template

Posted by [bmaisonn](#) on Thu, 15 Nov 2007 18:06:36 GMT

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Hi,

I've searched to resolve this problem for a long time ! So now, i decide to share it .

For a project I had to make a custom template with buildroot and busybox.

I created a VE and gave him an ip address ( venet interface )

(vzctl create 103 --ostemplate linux --ipadd 192.168.254.103)

Next inside that VE i configured my interfaces with this script :

```
#!/bin/sh
```

```
ifconfig venet0 add 127.0.0.1 netmask 255.255.255.255 broadcast 0.0.0.0 up
```

```
ifconfig venet0:0 add 192.168.254.103 netmask 255.255.255.255 broadcast 0.0.0.0 up
```

```
route add -net 191.255.255.1 netmask 255.255.255.255 dev venet0
```

```
route add -net default gw 191.255.255.1
```

From here, i can ping the HN but can't connect to him through a tcp socket.

I'd like to know i a forgot something, or made something wrong ?

Thanks a lot !

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Subject: Re: Can ping but not connect from a custom template

Posted by [vaverin](#) on Fri, 16 Nov 2007 06:09:36 GMT

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At the first glance your setup looks correct.

However I do not understand your problem. Could you please explain it in more details?

thank you,

Vasily Averin

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Subject: Re: Can ping but not connect from a custom template

Posted by [bmaisonn](#) on Fri, 16 Nov 2007 09:10:28 GMT

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Hi,

this is my situation.

I have a process on the HN which tries to communicate with another process placed in my custom VE through a tcp socket using the address 192.168.254.103 and a specific port. This configuration works perfectly with a minimal debian template, but with my template the two processes cannot even connect each other. There is certainly something that I forgot. Is there a special

configuration for the loopback interface ?

Here is the result of an "ifconfig" command :

```
lo      Link encap:Local Loopback
        inet addr:127.0.0.1  Mask:255.0.0.0
        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: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)

venet0:0 Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
        inet addr:192.168.254.103  P-t-P:192.168.254.103  Bcast:0.0.0.0  Mask:255.255.255.255
        UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1
```

And the route configuration :

| Destination   | Gateway       | Genmask         | Flags | Metric | Ref | Use | Iface  |
|---------------|---------------|-----------------|-------|--------|-----|-----|--------|
| 191.255.255.1 | *             | 255.255.255.255 | UH    | 0      | 0   | 0   | venet0 |
| default       | 191.255.255.1 | 0.0.0.0         | UG    | 0      | 0   | 0   | venet0 |

Thanks for interest to my problem

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Subject: Re: Can ping but not connect from a custom template

Posted by [bmaisonn](#) on Fri, 16 Nov 2007 10:20:42 GMT

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I can precise my problem a little bit more.

We've discovered than we can use wget from the VE, so it's seems it's working in one way ( VE to outside).

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Subject: Re: Can ping but not connect from a custom template

Posted by [vaverin](#) on Fri, 16 Nov 2007 11:13:16 GMT

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bmaisonn wrote on Fri, 16 November 2007 13:20I can precise my problem a little bit more.  
We've discovered than we can use wget from the VE, so it's seems it's working in one way ( VE to outside).  
Your have private IP and it can be acecssed only from your private network. Private IP's are not visible from internet.

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Subject: Re: Can ping but not connect from a custom template

Posted by [vaverin](#) on Fri, 16 Nov 2007 11:18:02 GMT

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I still cannot understand your ptoblem.

- are you able to ping HN from VE?
- are you able to ping VE from HN?
- are you able ssh from inside VE to HW node?
- if you have some server inside VE -- are you able connect him from inside VE and from HN?

I would add that tcpdump logs are very useful in such invetsigations.

thank you,  
Vasily Averin

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Subject: Re: Can ping but not connect from a custom template

Posted by [bmaisonn](#) on Fri, 16 Nov 2007 13:03:48 GMT

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Victory !

there was an error in my application in the VE.

I am sorry if i've waste your time ...

Thanks

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