Subject: venet cannot listen on ip address specified Posted by kdlsw on Wed, 31 Jan 2018 10:42:18 GMT

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I have a VPS Ubuntu running on OpenVZ, I think. The problem I am having is, some program requires user to manually specify an IP address for listening, I do not know which IP address to put with the Venet0 and Venet0:0.

Here is the ifconfig

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:155139 errors:0 dropped:0 overruns:0 frame:0 TX packets:155139 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:275037011 (275.0 MB) TX bytes:275037011 (275.0 MB)

inet addr:127.0.0.2 P-t-P:127.0.0.2 Bcast:0.0.0.0 Mask:255.255.255.255

inet6 addr: 2001:3e6:643:0:2:1:0:57/128 Scope:Global

UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1

RX packets:1826058 errors:0 dropped:0 overruns:0 frame:0 TX packets:1040054 errors:0 dropped:1 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:2360040465 (2.3 GB) TX bytes:120564554 (120.5 MB)

inet addr:183.181.101.87 P-t-P:183.181.101.87 Bcast:183.181.101.87

Mask:255.255.255.255

UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1

I did some experiments with netcat, and the results are really confusing. I first tried the public ip address on venet0:0 listening on port 80 nc -I 183.181.101.87 80 didn't work, no connection received. Then I tried netcat default ip listening which only port parameter required nc -I -p 80 it worked, so, with this command running, I want to find out which address it is listening on, I did netstat -atvn

The resultActive Internet connections (servers and established)

Proto Recv-Q Send-Q Local Address Foreign Address						
tcp	0	0 127.0.0.1:8022	0.0.0.0:*	LISTEN		
tcp	0	0 0.0.0.0:25	0.0.0.0:*	LISTEN		
tcp	0	0 0.0.0.0:3843	0.0.0.0:*	LISTEN		
tcp	0	0 0.0.0.0:80	0.0.0.0:*	LISTEN		
tcp6	0	0 :::25	*	LISTEN		
tcp6	0	0 :::3843	*	LISTEN		

It shows netcat is listening on 0.0.0.0, I guess all program without requiring a specific listening address is setting default to 0.0.0.0, and all addresses will be included.

Then I tried to give 0.0.0.0 as a specified address to netcat nc -I 0.0.0.0 80Something strange happened, in netstat, it shows

Active Internet connections (servers and established)

Proto F	Recv⋅	-Q Send-Q Local Ad	ddress Fo	oreign Address	State
tcp	0	0 127.0.0.1:8022	0.0.0.0:*	LISTEN	
tcp	0	0 0.0.0.0:25	0.0.0.0:*	LISTEN	
tcp	0	0 0.0.0.0:3843	0.0.0.0:*	LISTEN	
tcp	0	0 0.0.0.0:45690	0.0.0.0:*	LISTEN	
tcp6	0	0 :::25	*	LISTEN	
tcp6	0	0 :::3843	*	LISTEN	

Apparently port 80 becomes 45690, and this port is random. I also tested with other programs, this random port changing issue seems not happening. When I tried to connect netcat with my browser via port 45690, it showsinvalid connection to [183.181.101.87] from (UNKNOWN) [101.229.171.186] 31559 and ended.

If I do nc -I -p 45690 connection from a browser gives something similar to GET / HTTP/1.1

Host: 183.181.101.87:45690 Connection: keep-alive

. . .

which is successful one.

I am not sure what happened here, and for other programs, even if the listening port is not randomized, I cannot establish any connection.

Any suggesions? Thank you

Subject: Re: venet cannot listen on ip address specified Posted by Ales on Thu, 08 Feb 2018 13:50:52 GMT

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So, from the looks of it, you're a VPS customer and your VPS has a public IP of 183.181.101.87. The server is running OpenVZ.

Netcat aside, which software is giving you trouble and what kind of errors are you seeing?

For example, if you run a sshd on the VPS, can you connect trough a SSH client from an outside address?

Subject: Re: venet cannot listen on ip address specified Posted by kdlsw on Fri, 09 Feb 2018 02:18:27 GMT

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I tried to listen on 0.0.0.0 at higher ports, like 45678, it worked. I guess it's some firewalls cause this problem. Anyway, thank you.

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