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Subject: Add an private IP address into a CT  
Posted by [ekx27](#) on Tue, 07 Jun 2016 12:27:43 GMT  
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Hi,

I recently bought a OpenVZ Container from a hosting company and I would like to add a private IP address.

Here is the default config I had :

Quote:

```
#ifconfig
```

```
lo    Link encap:Local Loopback
      inet addr:127.0.0.1  Mask:255.0.0.0
      UP LOOPBACK RUNNING MTU:65536  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:127.0.0.2  P-t-P:127.0.0.2  Bcast:0.0.0.0  Mask:255.255.255.255
      UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500  Metric:1
      RX packets:34 errors:0 dropped:0 overruns:0 frame:0
      TX packets:35 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:0
      RX bytes:4401 (4.2 KiB)  TX bytes:5688 (5.5 KiB)
```

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

This works, I can ping everything :

Quote:

```
#ping 8.8.8.8
PING 8.8.8.8 (8.8.8. 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_req=1 ttl=50 time=5.74 ms
64 bytes from 8.8.8.8: icmp_req=2 ttl=50 time=5.78 ms
```

If I add into the `/etc/network/interface.tail` the following :

Quote:

```
auto venet0:1
```

```
iface venet0:1 inet static
    address 172.16.70.1
    netmask 255.255.255.255
```

ifconfig result :

Quote:~# ifconfig

```
lo    Link encap:Local Loopback
      inet addr:127.0.0.1  Mask:255.0.0.0
      UP LOOPBACK RUNNING  MTU:65536  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 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
      inet addr:127.0.0.2  P-t-P:127.0.0.2  Bcast:0.0.0.0  Mask:255.255.255.255
      UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1
      RX packets:23 errors:0 dropped:0 overruns:0 frame:0
      TX packets:24 errors:0 dropped:20 overruns:0 carrier:0
      collisions:0 txqueuelen:0
      RX bytes:3352 (3.2 KiB)  TX bytes:5067 (4.9 KiB)

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

venet0:1  Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
      inet addr:172.16.70.1  P-t-P:172.16.70.1  Bcast:172.16.70.1  Mask:255.255.255.255
      UP BROADCAST POINTOPOINT RUNNING NOARP  MTU:1500  Metric:1
```

Then, nothing ping into the Internet...

Here is the routing table :

Quote:

```
#route
```

```
Kernel IP routing table
```

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
default	*	0.0.0.0	U 0	0	0		venet0

Am I doing something wrong?

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Subject: Re: Add an private IP address into a CT  
Posted by [dowdle](#) on Tue, 12 Jul 2016 17:01:17 GMT  
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OpenVZ Legacy provides two types of network interfaces, venet (the default) and veth. For info on how they differ see:

[https://openvz.org/Differences\\_between\\_venet\\_and\\_veth](https://openvz.org/Differences_between_venet_and_veth)

Unless you have a need for layer 2 (MAC) services and paid more for it, it is likely you have a venet device... and such devices are controlled and managed by the system administrator of the host node. Even if you got it configured correctly in your container's configuration, it would be reset upon container restart. That's just how venet devices work. It is also possible, if you manually alter the container network config enough to confuse the IP address injection code in vzctl, you could completely break your networking... so manually editing your network configuration is not recommended.

The proper solution to your issue requires you contacting the support services for your hosting provider and telling them what you want... and them assisting you.

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Subject: Re: Add an private IP address into a CT  
Posted by [ekx27](#) on Tue, 12 Jul 2016 21:19:33 GMT  
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Thank you for your reply and the explanation, I will see what I can do with the system admin

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