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Subject: Cannot Start VE - Unable to set capability: Operation not permitted

Posted by [JFOC](#) on Tue, 30 Oct 2007 17:44:54 GMT

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Hello,

I cannot start the VE, here some command:

```
[root@dedicated ~]# vzctl create 112 --ostemplate centos-4-i386-default
Unable to get full ostemplate name for centos-4-i386-default
Creating VE private area (centos-4-i386-default)
Performing postcreate actions
VE private area was created
```

```
[root@dedicated ~]# vzctl start 112
Starting VE ...
VE is mounted
Unable to set capability: Operation not permitted
Unable to set capability
VE start failed
VE is unmounted
```

Operating system is CentOS 4.5

```
[root@dedicated ~]# uname -a
Linux dedicated.d.net 2.6.18-8.1.14.el5.028stab045.1PAE #1 SMP Mon Oct 1 13:46:57 MSD
2007 i686 i686 i386 GNU/Linux
```

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Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted

Posted by [Valmont](#) on Wed, 31 Oct 2007 11:24:58 GMT

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lcap?

[http://forum.openvz.org/index.php?t=msg&goto=15594&&srch=lcap#msg\\_15594](http://forum.openvz.org/index.php?t=msg&goto=15594&&srch=lcap#msg_15594)

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Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted

Posted by [JFOC](#) on Wed, 31 Oct 2007 15:50:28 GMT

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how to remove this lcap ?

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Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [Valmont](#) on Thu, 01 Nov 2007 07:15:43 GMT

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```
rpm -e lcap
```

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Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [JFOC](#) on Fri, 02 Nov 2007 19:02:57 GMT

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```
no rpm package found for lcap
```

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Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [Valmont](#) on Sun, 04 Nov 2007 09:52:04 GMT

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Does selinux disabled ?

What tells which lcap ?

Does /var/log/messages tells anything, when you try to start vps?

//also, do not forget update your kernel.

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Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [JFOC](#) on Sun, 04 Nov 2007 15:42:04 GMT

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```
selinux is disabled
```

```
[root@dedicated ~]# which lcap
```

```
/usr/bin/which: no lcap in (/usr/kerberos/sbin:/usr/kerberos/bin:/usr/lib/courier-imap/
```

```
sbin:/usr/lib/courier-imap/bin:/usr/local/sbin:/usr/local/bi
```

```
n:/sbin:/bin:/usr/sbin:/usr/bin:/usr/X11R6/bin:/root/bin)
```

```
[root@dedicated ~]# vzctl start 100
```

```
Starting VE ...
```

```
VE is mounted
```

```
Unable to set capability: Operation not permitted
```

Unable to set capability  
VE start failed  
VE is unmounted

There is no error message in /var/log/messages

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Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [JFOC](#) on Tue, 13 Nov 2007 20:23:23 GMT  
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any solutions for this issue ?

Thank you

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Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [Valmont](#) on Tue, 13 Nov 2007 22:09:00 GMT  
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Do you compile kernel by your self?  
If so, can you try use openvz team compiled kernel?

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Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [JFOC](#) on Tue, 13 Nov 2007 23:21:54 GMT  
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the kernel is from openvz,not compiled by me

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Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [vaverin](#) on Wed, 14 Nov 2007 08:54:40 GMT  
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Obviously you have some another utility that restricts capability.  
Could You please show us 'cat /proc/self/status' output.

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Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [JFOC](#) on Wed, 14 Nov 2007 09:39:31 GMT  
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cat /proc/self/status

Name: cat  
State: R (running)  
SleepAVG: 88%  
Tgid: 6080  
Pid: 6080  
PPid: 27585  
TracerPid: 0  
Uid: 0 0 0 0  
Gid: 0 0 0 0  
FDSize: 256  
Groups: 0 1 2 3 4 6 10  
VmPeak: 50024 kB  
VmSize: 50024 kB  
VmLck: 0 kB  
VmHWM: 448 kB  
VmRSS: 448 kB  
VmData: 200 kB  
VmStk: 84 kB  
VmExe: 20 kB  
VmLib: 1280 kB  
VmPTE: 24 kB  
Threads: 1  
SigQ: 0/8190  
SigPnd: 0000000000000000  
ShdPnd: 0000000000000000  
SigBlk: 0000000000000000  
SigIgn: 0000000000000000  
SigCgt: 0000000000000000  
CapInh: 0000000000000000  
CapPrm: 00000000ffffeff  
CapEff: 00000000ffffeff  
Cpus\_allowed: 00f  
Mems\_allowed: 00000000,00000001  
PaX: PeMRs

---

Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [vaverin](#) on Wed, 14 Nov 2007 09:52:44 GMT  
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Hmm, are you sure that it was taken on openVZ kernel?

---

Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [JFOC](#) on Wed, 14 Nov 2007 13:27:49 GMT  
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Linux localhost 2.6.18-8.1.14.el5.028stab045.1PAE #1 SMP Mon Oct 1 13:46:57 MSD 2007 i686 i686 i386 GNU/Linux

I used this kernel from openvz

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Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [vaverin](#) on Wed, 14 Nov 2007 14:05:54 GMT

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I'm sorry, but it doesn't look like openvz kernel.

Our kernel have a slightly different format:

```
# uname -a
```

```
Linux ts10 2.6.18-028stab049.1-PAE #1 SMP Thu Nov 8 19:53:27 MSK 2007
```

```
i686 i686 i386 GNU/Linux
```

```
[root@ts10 ~]# cat /proc/self/status
```

```
Name: cat
```

```
State: R (running)
```

```
SleepAVG: 78%
```

```
Tgid: 9079
```

```
Pid: 9079
```

```
PPid: 8411
```

```
TracerPid: 0
```

```
FNid: 0
```

```
Uid: 0 0 0 0
```

```
Gid: 0 0 0 0
```

```
FDSize: 256
```

```
Groups: 0 1 2 3 4 6 10
```

```
envID: 0
```

```
VPid: 9079
```

```
PNState: 0
```

```
StopState: 0
```

```
VmPeak: 3676 kB
```

```
VmSize: 3676 kB
```

```
VmLck: 0 kB
```

```
VmHWM: 428 kB
```

```
VmRSS: 428 kB
```

```
VmData: 156 kB
```

```
VmStk: 88 kB
```

```
VmExe: 16 kB
```

```
VmLib: 3404 kB
```

```
VmPTE: 32 kB
```

```
StaBrk: 0804d000 kB
```

```
Brk: 0826e000 kB
```

```
StaStk: bfa41da0 kB
```

```
ExecLim: ffffffff
```

```
Threads: 1
```

```
SigQ: 1/55296
```

SigPnd: 0000000000000000  
ShdPnd: 0000000000000000  
SigBlk: 0000000000000000  
SigIgn: 0000000000000000  
SigCgt: 0000000000000000  
SigSvd: 0000000000000000  
CapInh: 0000000000000000  
CapPrm: 00000000ffffeff  
CapEff: 00000000ffffeff  
Cpus\_allowed: ffffffff  
Mems\_allowed: 1  
TaskUB: 0.0  
MMUB: 0.0

I would note that our kernels should have the following strings:

envID:

VPid:

TaskUB:

Your kernel doesn't show these strings but outputs extra lines with

PaX: PeMRs

I'm very sorry, but could you please re-check the kernel on your node?

thank you,

Vasily Averin

---

Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted

Posted by [JFOC](#) on Wed, 14 Nov 2007 14:21:32 GMT

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I just upgraded the kernel and below is the result

Linux localhost 2.6.18-8.1.15.el5.028stab047.1PAE #1 SMP Tue Oct 23 15:48:28 MSD 2007 i686  
i686 i386 GNU/Linux

```
[root@dedicated cache]# cat /proc/self/status
```

```
Name: cat
```

```
State: R (running)
```

```
SleepAVG: 78%
```

```
Tgid: 30986
```

```
Pid: 30986
```

```
PPid: 15060
```

```
TracerPid: 0
```

```
FNid: 0
```

```
Uid: 0 0 0 0
```

```
Gid: 0 0 0 0
```

FDSize: 256  
Groups: 0 1 2 3 4 6 10  
envID: 0  
VPid: 30986  
PNState: 0  
StopState: 0  
VmPeak: 3792 kB  
VmSize: 3792 kB  
VmLck: 0 kB  
VmHWM: 376 kB  
VmRSS: 376 kB  
VmData: 148 kB  
VmStk: 84 kB  
VmExe: 16 kB  
VmLib: 3528 kB  
VmPTE: 24 kB  
StaBrk: 0804d000 kB  
Brk: 092d5000 kB  
StaStk: bfbaa660 kB  
Threads: 1  
SigQ: 0/7679  
SigPnd: 0000000000000000  
ShdPnd: 0000000000000000  
SigBlk: 0000000000000000  
SigIgn: 0000000000000000  
SigCgt: 0000000000000000  
SigSvd: 0000000000000000  
CapInh: 0000000000000000  
CapPrm: 00000000ffffeff  
CapEff: 00000000ffffeff  
Cpus\_allowed: ffffffff  
Mems\_allowed: 1  
TaskUB: 0  
MMUB: 0

```
[root@dedicated cache]# vzctl create 100 --ostemplate centos-4-i386-default
```

```
Creating VE private area (centos-4-i386-default)
vzquota : (error) Quota on syscall for 100: File exists
vzquota on failed [3]
vzquota : (error) Quota is not running for id 100
Performing postcreate actions
VE private area was created
[root@dedicated cache]# vzctl start 100
Starting VE ...
vzquota : (error) Quota on syscall for 100: File exists
vzquota on failed [3]
```

So i set in file /etc/sysconfig/vz  
DISK\_QUOTA=no

now the result

```
[root@dedicated cache]# vzctl start 100
Starting VE ...
VE is mounted
Adding IP address(es): 209.250.234.166
Setting CPU units: 1000
Configure meminfo: 49152
File resolv.conf was modified
VE start in progress...
```

Anyway the ip address is needed set to the real ip address or network ip address class ?

Best Regards,  
Joko Frank Octo

---

Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [vaverin](#) on Thu, 15 Nov 2007 06:48:47 GMT  
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Sorry,  
I do not understand your last question. To be accessible via network each VE should have its own IP, like a dedicated node.

thank you,  
Vasily Averin

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Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [JFOC](#) on Thu, 15 Nov 2007 07:03:47 GMT  
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Sorry.

The question is how to make the VE is accessible from Internet and the Host node is accessible from VE.

I'm a little confuse with the tutorial in the openvz wiki about VE ip address, the ip address should be a local network class type ip or public ip address ?



Also the nameserver should be set in VE is ISP nameserver or the host node nameserver (since dns server is installed in host node)

Thank you

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Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [vaverin](#) on Thu, 15 Nov 2007 07:56:12 GMT

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Most simplest way is to assign VE public IP.  
However you can use private IP for VEs too:  
[http://wiki.openvz.org/Using\\_NAT\\_for\\_VE\\_with\\_private\\_IPs](http://wiki.openvz.org/Using_NAT_for_VE_with_private_IPs)

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Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [JFOC](#) on Thu, 15 Nov 2007 08:10:11 GMT

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Private IP is local network ip address ?

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Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [vaverin](#) on Thu, 15 Nov 2007 08:42:58 GMT

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yes

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---

Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [JFOC](#) on Thu, 15 Nov 2007 08:54:09 GMT

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```
[host-node] vzctl create 100 --ostemplate=debian-4.0-i386-minimal
[host-node] vzctl set 100 --ipadd 192.168.0.100 --save
[host-node] vzctl set 100 --nameserver 209.250.234.162 --save
[host-node] vzctl set 100 --hostname vps100 --save
[host-node] vzctl set 100 --netif_add eth0,00:0C:29:08:EE:48 --save
[host-node] vzctl start 100
[host-node] ifconfig veth101.0 0
[host-node] echo 1 > /proc/sys/net/ipv4/conf/veth100.0/forwarding
[host-node] echo 1 > /proc/sys/net/ipv4/conf/veth100.0/proxy_arp
[host-node] echo 1 > /proc/sys/net/ipv4/conf/eth0/forwarding
[host-node] echo 1 > /proc/sys/net/ipv4/conf/eth0/proxy_arp
[host-node] vzctl enter 100
```

```
[ve-100] ifcfg eth0 0
[ve-100] ifconfig eth0 192.168.0.99
[ve-100] route add default eth0
[ve-100] exit
```

```
[host-node] route add 192.168.0.99 dev veth100.0
[host-node] iptables -t nat -A POSTROUTING -o eth0 -j SNAT --to 209.250.234.162
```

```
[host-node] vzctl enter 100
[ve-100] ping jfoc.net --> the result is ping: unknown host jfoc.net
```

Above is an instruction i followed step-by-step, but still cannot access the Internet From VE

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---

Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [vaverin](#) on Thu, 15 Nov 2007 09:37:58 GMT

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```
JFOC wrote on Thu, 15 November 2007 11:54[host-node] vzctl create 100
--ostemplate=debian-4.0-i386-minimal
[host-node] vzctl set 100 --ipadd 192.168.0.100 --save
[host-node] vzctl set 100 --nameserver 209.250.234.162 --save
[host-node] vzctl set 100 --hostname vps100 --save
```

I would note that it is enough for VE networking via venet interface  
[http://wiki.openvz.org/Virtual\\_network\\_device](http://wiki.openvz.org/Virtual_network_device)  
veth interface is an alternative solution, and you can not use it at all.

```
JFOC wrote on Thu, 15 November 2007 11:54[host-node] vzctl set 100 --netif_add
eth0,00:0C:29:08:EE:48 --save
[host-node] vzctl start 100
[host-node] ifconfig veth101.0 0
[host-node] echo 1 > /proc/sys/net/ipv4/conf/veth100.0/forwarding
[host-node] echo 1 > /proc/sys/net/ipv4/conf/veth100.0/proxy_arp
[host-node] echo 1 > /proc/sys/net/ipv4/conf/eth0/forwarding
[host-node] echo 1 > /proc/sys/net/ipv4/conf/eth0/proxy_arp
[host-node] vzctl enter 100
```

```
[ve-100] ifcfg eth0 0
[ve-100] ifconfig eth0 192.168.0.99
[ve-100] route add default eth0
[ve-100] exit
```

```
[host-node] route add 192.168.0.99 dev veth100.0
```

As I've explained above Veth interface is not necessary, but at this point you have configured veth interface too.

JFOC wrote on Thu, 15 November 2007 11:54[host-node] iptables -t nat -A POSTROUTING -o eth0 -j SNAT --to 209.250.234.162

this rule means that all forwarded packets will have source ip=209.250.234.162. Is it your hardware node's IP?

JFOC wrote on Thu, 15 November 2007 11:54[host-node] vzctl enter 100 [ve-100] ping jfoc.net --> the result is ping: unknown host jfoc.net

Above is an instruction i followed step-by-step, but still cannot access the Internet From VE As far as I see you cannot translate jfoc.net name to IP. Are you sure that you have started nameserver on your hardware node? If not -- you can set to VE the same nameserver that uses your hardware node.

Then let's check the following:

- do you able to ping HW node from inside VE (by using its IP)?
- do you able to ping some external IP from inside VE?

thank you,  
Vasily Averin

---

Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [JFOC](#) on Thu, 15 Nov 2007 09:58:38 GMT

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Quote:

I would note that it is enough for VE networking via venet interface  
[http://wiki.openvz.org/Virtual\\_network\\_device](http://wiki.openvz.org/Virtual_network_device)  
veth interface is an alternative solution, and you can not use it at all.

Why i cannot use this ?

Quote:

this rule means that all forwarded packets will have source ip=209.250.234.162. Is it your hardware node's IP?

Yes that's 209.250.234.162 is my static ip for server

Quote:

As far as I see you cannot translate jfoc.net name to IP. Are you sure that you have started nameserver on your hardware node? If not -- you can set to VE the same nameserver that uses your hardware node.

Then let's check the following:

- do you able to ping HW node from inside VE (by using its IP)?
- do you able to ping some external IP from inside VE?

- Yes i'm sure the nameserver has been running well, because this is dedicated server for web hosting.
  - I cannot ping HW node from Inside VE (using name / ip)
  - I cannot ping any external IP from VE
- 

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Subject: Re: Cannot Start VE - Unable to set capability: Operation not permitted  
Posted by [vaverin](#) on Thu, 15 Nov 2007 10:42:18 GMT

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JFOC wrote on Thu, 15 November 2007 12:58Quote:

I would note that it is enough for VE networking via venet interface  
[http://wiki.openvz.org/Virtual\\_network\\_device](http://wiki.openvz.org/Virtual_network_device)  
veth interface is an alternative solution, and you can not use it at all.

Why i cannot use this ?

Sorry my bad english, I mean that you have configured venet network interface and therefore using veth is not necessary.

JFOC wrote on Thu, 15 November 2007 12:58

- Yes i'm sure the nameserver has been running well, because this is dedicated server for web hosting.
  - I cannot ping HW node from Inside VE (using name / ip)
  - I cannot ping any external IP from VE
- Hmm. Is eth0 interface up inside your VE?  
Could you please show list of interfaces ("ip a l" output) and routing table inside your VE ("ip r l" output).

IMHO it make sense try to remove veth configuration and repeat your experiment.  
Also you can give me access permission for your node (via PM) and I'll try to investigate situation on your node.

---