
Subject: Run truecrypt in a container?

Posted by [Todd Lyons](#) on Thu, 22 Sep 2011 18:07:35 GMT

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Hello all, I'm very new to openvz. If I misstate names or concepts, please do correct me.

Is there any possibility to get truecrypt to work inside a container?

===== Host Node =====

We set up an openvz server using proxmox. The HN is Debian Lenny:

```
dlscl91:~# cat /etc/issue
```

```
Debian GNU/Linux 5.0 \n \l
```

```
dlscl91:~# uname -a
```

```
Linux dlscl91 2.6.32-4-pve #1 SMP Tue Mar 29 09:08:37 CEST 2011
```

```
x86_64 GNU/Linux
```

The fuse (userspace filesystem) module is loaded in the HN:

```
dlscl91:~# lsmod | grep fuse
```

```
fuse          51198  3
```

And the CE is aware of it and the loop device:

```
dlscl91:~# vzctl set 901 --devnodes fuse:rw --devnodes loop0:rw
```

```
--devnodes loop1:rw --devnodes loop2:rw --devnodes loop3:rw --devnodes
```

```
loop4:rw --devnodes loop5:rw --devnodes loop6:rw --devnodes loop7:rw
```

```
--save
```

```
Setting devices
```

```
Saved parameters for CT 901
```

```
dlscl91:~# grep loop /etc/vz/conf/901.conf
```

```
DEVNODES="fuse:rw loop0:rw loop1:rw loop2:rw loop3:rw loop4:rw
```

```
loop5:rw loop6:rw loop7:rw "
```

===== CONTAINER =====

The CE is a CentOS 5.6 system, also x86_64. In the container, all

fuse libs and fuse utilities are installed. When I run truecrypt, I

get an error complaining about a lack of devicemapper support.

```
[root@dlswww91 ~]# truecrypt -c --encryption=AES --password=test
```

```
--random-source=/dev/urandom --volume-type=normal --size=20971520
```

```
--hash=RIPEMD-160 --filesystem="Linux Ext3" test.dat
```

Enter keyfile path [none]:

Done: 100.000% Speed: 21 MB/s Left: 0 s

The TrueCrypt volume has been successfully created.

```
[root@dlswww91 ~]# truecrypt --fs-options=users,uid=$(id -u),gid=$(id -g),fmask=0113,dmask=002 --password=test --protect-hidden=no --mount /root/test.dat /mnt/test/
Enter keyfile [none]:
Error: /proc/devices: No entry for misc found
Is device-mapper driver missing from kernel?
Failure to communicate with kernel device-mapper driver.
Command failed
```

```
[root@dlswww91 ~]# uname -a
Linux dlswww91.ivenue.net 2.6.32-4-pve #1 SMP Tue Mar 29 09:08:37 CEST 2011 x86_64 x86_64 x86_64 GNU/Linux
```

The /proc/devices file is indeed empty.

===== QUESTION =====

Is there any possibility to get truecrypt to work inside a container? I worked through some errors, first with the fuse device not working and second with the loop device not working. Both were solved by solutions found in the openvz forum. I can create and mount iso images on loopback, so I know my loop device is working. After putting fuse in the DEVNODES list, the fuse error went away. Now I just have to figure out how to tell truecrypt that device mapper support is present. Now, it's possible that this just can't work inside a container, in which case we'll fall back to using a KVM VM instead of an OpenVZ CE for that particular host, but I'd like to use the much lower overhead OpenVZ if possible.

Regards... Todd

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If Americans could eliminate sugary beverages, potatoes, white bread, pasta, white rice and sugary snacks, we would wipe out almost all the problems we have with weight and diabetes and other metabolic diseases. -- Dr. Walter Willett, Harvard School of Public Health
