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Subject: Restore of VPS with mounted logical volume (LVM)  
Posted by [Leandro Anthonioz](#) on Sun, 06 Dec 2009 00:51:16 GMT  
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Hi, I'm using OpenVz in Debian Lenny, kernel 2.6.26-2-openvz-686 and I have a problem with checkpointing/restore functionality. Maybe somebody can help me.

I create a VPS and a LVM logical volume. Then, I put the logical volume inside VPS, format it and mount it. Then, I do a VPS checkpoint, ok. When I attempt to restore VPS, i have an error "Error: undump failed: No such file or directory". If I unmount the volume BEFORE checkpoint VPS, restore works ok, but I need restore VPS with volume ALREADY mounted.

This is exactly what I do:

```
# Create a new VPS and a new LVM logical volume
```

```
vzctl create 100
```

```
lvcreate --size 1G --name vol-new /dev/vg0
```

```
# "Put" the logical volume inside VPS
```

```
vzctl set 100 --devnodes vg0/vol-new:rw --save
```

```
# Enter to VPS
```

```
vzctl start 100
```

```
vzctl enter 100
```

```
# Format logical volume, mount it and save a file
```

```
mkfs -t ext3 /dev/vg0/vol-new
```

```
mkdir /mnt/volume
```

```
mount /dev/vg0/vol-new /mnt/volume
```

```
nano /mnt/volume/Hello.txt
```

```
# Exit to HN
```

```
exit
```

```
# Checkpoint VPS
```

```
vzctl chkpnt 100 --suspend
```

```
vzctl chkpnt 100 --dump --dumpfile /vz/dump/100.dump
```

```
vzctl chkpnt 100 --kill
```

```
# Attempt to restore VPS (in same HN)
```

```
vzctl restore 100 --undump --dumpfile /vz/dump/100.dump
```

```
# Last command output:
```

```
Restoring VE ...
```

```
Starting VE ...
```

```
VE is mounted
```

```
undump...
```

Setting CPU units: 1000  
Setting devices  
Configure meminfo: 65536  
Error: undump failed: No such file or directory  
Restoring failed:  
Error: -2 mounting /mnt/volume ext3 40000000  
Error: rst\_namespace: -2  
VE start failed  
Stopping VE ...  
VE was stopped  
VE is unmounted

I was reading about mount scripts (100.mount), but I couldn't solve this problem. What is wrong?

Any help will be very appreciate it. Thank you!

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Subject: Re: Restore of VPS with mounted logical volume (LVM)  
Posted by [Leandro Anthonioz](#) on Tue, 15 Dec 2009 02:21:19 GMT  
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Hi all, I still can not solve this problem. Do you think maybe this is a bug? Anybody have experience dumping and restoring VPS with mounted LVM volumes? In that case, could you please post an example of <VID>.mount file? Thanks in advance!

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Subject: Re: Restore of VPS with mounted logical volume (LVM)  
Posted by [Leandro Anthonioz](#) on Wed, 17 Feb 2010 01:44:44 GMT  
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Hi all, I still can't solve this problem. I download vzctl source code and debug it with gdb and DDD, but code is difficult to interpret for me (I'm not a kernel hacker ;D).

After that, I use strace and found this:

```
-----  
stat64("/etc/vz/conf/100.start", 0xbfc83f74) = -1 ENOENT (No such file or directory)  
close(10)                                = 0  
read(11, Error: undump failed: No such file or directory  
Restoring failed:  
Error: -2 mounting /mnt/volume ext3 40000000  
Error: rst_namespace: -2
```

-----

According first line, seems that vzctl needs (in this case) a start script (100.start), but I can't understand why. Well, I wrote 100.start script without any code (only "#!/bin/bash" and an "echo" command) an next attempt to do restore, I get this:

-----

```
Restoring VE ...
Starting VE ...
VE is mounted
undump...
Setting CPU units: 1000
Setting devices
Configure meminfo: 65536
VE start failed
Stopping VE ...
get context...
VE was stopped
VE is unmounted
```

-----

After create 100.start script, error "No such file or directory" disappears. However, I can't restore VPS yet. What code I need write in 100.start script?

Any help will be greatly appreciated. Thank you very much!

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Subject: Re: Restore of VPS with mounted logical volume (LVM)  
Posted by [maratrus](#) on Sat, 20 Feb 2010 10:52:32 GMT  
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Hello Leandro,

first of all, thank you very much for such a descriptive report.  
I filed a bug. Please, refer to [http://bugzilla.openvz.org/show\\_bug.cgi?id=1436](http://bugzilla.openvz.org/show_bug.cgi?id=1436)

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Subject: Re: Restore of VPS with mounted logical volume (LVM)  
Posted by [Leandro Anthonioz](#) on Sat, 20 Feb 2010 20:16:57 GMT  
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Hi Marat! Thank you very much for make the bug report!

If you need some other information (vzctl version, etc), please tell me.

Best regards,

Leandro.

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