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Subject: online container migration fails with Remote exception I/O operation on closed file

Posted by [msolovyev](#) on Wed, 23 May 2018 14:33:46 GMT

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Hello,

I'm trying to do live migration of container, and getting such an error (this happens even with empty test container):

```
[root@vz03 ~]# vzmigrate -vvv --online --require-realtime vz04 222
```

```
...
2018-05-23 10:30:10.732: Live migration stage started
2018-05-23 10:30:36.320: lo multiplexer aborted
2018-05-23 10:30:36.320: 2018-05-23 10:30:36.321: Phaul service failed to live migrate CT
2018-05-23 10:30:36.320: 2018-05-23 10:30:36.321: error [-73] : Phaul service failed to live migrate CT
2018-05-23 10:30:36.321: Phaul service failed to live migrate CT
2018-05-23 10:30:36.321: Phaul failed to live migrate CT (/var/log/phaul.log)
2018-05-23 10:30:36.322: 2018-05-23 10:30:36.322: cleaning : destroy CT 222
2018-05-23 10:30:36.372: 2018-05-23 10:30:36.372: cleaning : 'rm' dir : /vz/private/222
2018-05-23 10:30:36.372: 2018-05-23 10:30:36.372: can not rename : [/vz/private/222] -> [/vz/private/222.ss6sKg]
2018-05-23 10:30:36.372: 2018-05-23 10:30:36.373: cleaning : 'rmdir' dir : /vz/root/222
2018-05-23 10:30:36.372: 2018-05-23 10:30:36.373: can not find entry for delete : [/vz/root/222]
2018-05-23 10:30:37.373: 2018-05-23 10:30:37.373: unlocking 222
2018-05-23 10:30:37.375: Can't move/copy CT 222 -> CT 222, [], [] : Phaul failed to live migrate CT (/var/log/phaul.log)
2018-05-23 10:30:37.375: unlocking 222
2018-05-23 10:30:37.375: close channel
```

```
[root@vz03 ~]# tail -20 /var/log/phaul.log
```

```
10:30:33.214: 285170: Notify (post-network-lock)
```

```
10:30:35.283: 285170: Final FS and images sync
```

```
10:30:35.522: 285170: Sending images to target
```

```
10:30:35.524: 285170: Pack
```

```
10:30:35.561: 285170: Add htype images
```

```
10:30:35.812: 285170: Asking target host to restore
```

```
10:30:36.271: 285170: Remote exception
```

```
10:30:36.271: 285170: I/O operation on closed file
```

```
Traceback (most recent call last):
```

```
File "/usr/libexec/phaul/p.haul", line 9, in <module>
```

```
load_entry_point('phaul==0.1', 'console_scripts', 'p.haul')()
```

```
File "/usr/lib/python2.7/site-packages/phaul/shell/phaul_client.py", line 49, in main
worker.start_migration()
```

```
File "/usr/lib/python2.7/site-packages/phaul/iters.py", line 161, in start_migration
```

```
self.__start_live_migration()
File "/usr/lib/python2.7/site-packages/phaul/iters.py", line 232, in __start_live_migration
self.target_host.restore_from_images()
File "/usr/lib/python2.7/site-packages/phaul/xem_rpc_client.py", line 26, in __call__
raise Exception(resp[1])
Exception: I/O operation on closed file
```

Logs from destination server:

```
[root@vz04 ~]# tail -20 /var/log/phaul-service.log
10:30:35.562: 817892: Waiting for images to unpack
10:30:35.813: 817892: Restoring from images
10:30:35.827: 817892: Starting vzctl restore
10:30:36.269: 817892: > Restoring the Container ...
10:30:36.269: 817892: > Mount image: /vz/private/222/root.hdd
10:30:36.269: 817892: > Container is mounted
10:30:36.269: 817892: > Setting permissions for image=/vz/private/222/root.hdd
10:30:36.269: 817892: > (00.000283) Error (criu/util.c:694): Can't read link of fd -404: No such
file or directory
10:30:36.270: 817892: > (00.000295) Error (criu/protobuf.c:77): Unexpected EOF on (null)
10:30:36.270: 817892: > The restore log was saved in
/vz/dump/222/rst-_cQGWZ-18.05.23-10.30/criu_restore.9.log
10:30:36.270: 817892: > criu exited with rc=17
10:30:36.270: 817892: > Unmount image: /vz/private/222/root.hdd
10:30:36.270: 817892: > Container is unmounted
10:30:36.270: 817892: > Failed to restore the Container
10:30:36.321: 817892: Disconnected
10:30:36.322: 817892: Closing images
10:30:36.322: 817892: Removing images
10:30:36.373: 817892: Stop by 15
10:30:36.373: 817892: RPC Service stops
10:30:36.374: 817892: Bye!
```

```
[root@vz04 ~]# tail -20 /vz/dump/222/rst-_cQGWZ-18.05.23-10.30/criu_restore.9.log
(00.000142) Version: 3.8 (gitid 0)
(00.000188) Running on vz04.boardreader.com Linux 3.10.0-693.21.1.vz7.47.4 #1 SMP Sat Apr
28 11:48:07 MSK 2018 x86_64
(00.000237) No inventory.img image
(00.000283) Error (criu/util.c:694): Can't read link of fd -404: No such file or directory
(00.000295) Error (criu/protobuf.c:77): Unexpected EOF on (null)
```

Both servers run the following openvz version:

```
[root@vz03 ~]# uname -a
```

Linux vz03.boardreader.com 3.10.0-693.21.1.vz7.47.4 #1 SMP Sat Apr 28 11:48:07 MSK 2018  
x86\_64 x86\_64 x86\_64 GNU/Linux

```
[root@vz03 ~]# cat /etc/*release*
OpenVZ release 7.0.8 (142)
NAME="Virtuozzo"
VERSION="7.0.8"
ID="virtuozzo"
ID_LIKE="rhel fedora"
VERSION_ID="7"
PRETTY_NAME="OpenVZ release 7.0.8"
ANSI_COLOR="0;31"
CPE_NAME="cpe:/o:virtuozzoproject:vz:7"
HOME_URL="http://www.virtuozzo.com"
BUG_REPORT_URL="https://bugs.openvz.org/"
OpenVZ release 7.0.8 (142)
Virtuozzo Linux release 7.4
OpenVZ release 7.0.8 (142)
cpe:/o:virtuozzoproject:vzlinux:7:ga
OpenVZ release 7.0.8 (142)
Virtuozzo Linux release 7.5.0 (549)
```

If I remove --online --require-realtime options, it works.

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Subject: Re: online container migration fails with Remote exception I/O operation on closed file

Posted by [vaverin](#) on Thu, 24 May 2018 12:00:14 GMT

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submitted to

<https://github.com/checkpoint-restore/criu/issues/494>

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Subject: Re: online container migration fails with Remote exception I/O operation on closed file

Posted by [vaverin](#) on Fri, 25 May 2018 07:17:03 GMT

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avagin on github asks to provide criu\_restore.9.log file

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Subject: Re: online container migration fails with Remote exception I/O operation on closed file

Posted by [msolovyev](#) on Fri, 25 May 2018 11:38:44 GMT

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Actually criu\_restore.9.log was already posted in my first message:

```
[root@vz04 ~]# cat /vz/dump/222/rst-_cQGWZ-18.05.23-10.30/criu_restore.9.log
(00.000142) Version: 3.8 (gitid 0)
(00.000188) Running on vz04.boardreader.com Linux 3.10.0-693.21.1.vz7.47.4 #1 SMP Sat Apr
28 11:48:07 MSK 2018 x86_64
(00.000237) No inventory.img image
(00.000283) Error (criu/util.c:694): Can't read link of fd -404: No such file or directory
(00.000295) Error (criu/protobuf.c:77): Unexpected EOF on (null)
```

I attached the whole /vz/dump/222/rst-\_cQGWZ-18.05.23-10.30 dir on github

BTW, can't attach archive here, getting "File Attachment is too big (over allowed limit of 2097152 bytes)", while archive is 200KB.

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Subject: Re: online container migration fails with Remote exception I/O operation on closed file

Posted by [vaverin](#) on Fri, 25 May 2018 12:59:08 GMT

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reported as <https://bugs.openvz.org/browse/OVZ-7030>

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Subject: Re: online container migration fails with Remote exception I/O operation on closed file

Posted by [alenco](#) on Fri, 22 Mar 2019 18:46:05 GMT

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When will this be integrated in the stable package of Virtuozzo, or even at the factory repo? The last update on the criu package is from 2017.

Having the same issue as described here.

Or would it be OK to compile the package myself? Not sure if this will create more issues?

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Subject: Re: online container migration fails with Remote exception I/O operation on closed file

Posted by [alenco](#) on Fri, 22 Mar 2019 19:24:12 GMT

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Just tried to compile it to 3.10 and 3.11, but getting an error on that. Probably because p.haul is not working any more with different version than their own package.

Really much appreciated if someone can let me know if there is a way to get this working.

Live migration is simply not working anymore.

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**Subject: Re: online container migration fails with Remote exception I/O operation on closed file**

Posted by [HHawk](#) on Fri, 10 May 2019 19:38:48 GMT

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I have the same issue.

OpenVZ release 7.0.10 (252)

Virtuozzo Linux release 7.6.0 (618)

Linux name.of.server 3.10.0-957.10.1.vz7.85.17 #1 SMP Thu Apr 11 18:11:44 MSK 2019 x86\_64  
x86\_64 x86\_64 GNU/Linux

I run the following command: `prlctl migrate root@192.168.0.1/10012 root@192.168.0.2/10012 -v 10`

Result:

Quote:

```
05-10 20:49:01.414 W /disp:3647:199402/ handleClientConnected
```

```
05-10 20:49:01.414 F /disp:3647:199402/ Processing command 'DspCmdUserEasyLoginLocal' 2186 (PJOC_SRV_LOGIN_LOCAL)
```

```
05-10 20:49:01.415 F /disp:3647:199402/ VM Directory /vz/vmprivate does not exists.
```

```
05-10 20:49:01.415 F /disp:3647:199402/ Virtuozzo user [root@.] successfully logged on( LOCAL ). [sessionId = {dfe639bf-d805-4d7c-9075-092877108e0a} ]
```

```
05-10 20:49:01.415 F /disp:3647:199402/ Session with uuid[ {dfe639bf-d805-4d7c-9075-092877108e0a} ] was started.
```

```
05-10 20:49:01.522 I /IOCommunication:3647:199402/ IO server ctx [read thr] (handle 70, sender 2): Socket graceful shutdown detected. No worries, everything goes fine.
```

```
05-10 20:49:01.522 W /disp:3647:199402/ handleClientDisconnected
```

```
05-10 20:51:57.623 F /disp:3647:199166/ Sending SIGKILL to 199168...
```

```
05-10 20:51:57.624 F /IOCommunication:3647:199166/ IO client ctx [read thr] (sender 2):
```

```
WARNING: callback took too much time: about 300051 msecs. This is absolutely incorrect!
```

```
Callback must be rewritten!
```

```
05-10 20:51:57.625 F /disp:3647:199165/ Task '20Task_MigrateCtSource' with uuid = {cd73d895-9131-4107-9a5e-bcbdf8d7323} was finished with result
```

```
PRL_ERR_CT_MIGRATE_INTERNAL_ERROR (0x80031035) )
```

```
05-10 20:51:57.626 I /IOCommunication:3647:199166/ IO client ctx [read thr] (sender 2): Stop in progress for read thread
```

```
05-10 20:51:57.712 F /disp:3647:199153/ Processing command 'DspCmdUserLogoff' 2042
```

(PJOC\_SRV\_LOGOFF)

05-10 20:51:57.712 F /disp:3647:199153/ Virtuozzo user [root@.] successfully logged off.

[sessionId = {653e6805-09f2-43c3-b7b0-2499587ffabb} ]

05-10 20:51:57.712 I /IOCommunication:3647:199153/ IO server ctx [read thr] (handle 42, sender 2) (83.172.190.190:49832): Stop in progress for read thread

05-10 20:51:57.712 W /disp:3647:199153/ handleClientDisconnected

05-10 20:52:02.232 F /disp:3647:3647/ Synchronizing VMs uptime values

05-10 20:52:02.232 F /disp:3647:3647/ Synchronization of VMs uptime was completed

05-10 20:52:06.650 F /disp:3647:4098/ RNG schema validation has failed

05-10 20:52:06.650 F /disp:3647:4098/ libvirt error no error

05-10 20:52:06.650 F /disp:3647:4098/ Cannot read host PCI devices: PRL\_ERR\_FAILURE

05-10 20:52:16.297 F /HostUtils:3647:4098/ Failed to load libpcs\_client.so.1: libpcs\_client.so.1: cannot open shared object file: No such file or directory

Maybe someone has an idea?

Things I tried and/or looked up:

1. Failed to load libpcs\_client.so.1 (= apparently only a warning)
2. VM Directory /vz/vmprivate does not exist (= I created this directory on both source and destination; still same message)

I decided to try something else; I turned the container offline and ran the command: prlctl migrate 10012 192.168.0.2

As a result the container was migrated successfully...

...however, I rather have a live migration if possible.

Maybe someone experienced can see in the logs what is wrong?

Thanks!

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Subject: Re: online container migration fails with Remote exception I/O operation on closed file

Posted by [HHawk](#) on Sat, 18 May 2019 18:10:55 GMT

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\* small bump \*

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