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Stable Group

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committer Martin K. Petersen <martin.petersen@oracle.com> 2023-03-16 23:02:23 -0400
commit [a13faca032acbf2699293587085293bdfaafc8ae](#) (patch)
tree [fa64699789d2598d8773d8a31155fc8c60fe7981](#)
parent [d3affdeb400f3adc925bd996f3839481f5291839](#) (diff)
download [linux-a13faca032acbf2699293587085293bdfaafc8ae.tar.gz](#)

diff options

context:
space:
mode:

scsi: scsi_dh_alua: Fix memleak for 'qdata' in alua_activate()

If `alua_rtpg_queue()` failed from `alua_activate()`, then 'qdata' is not freed, which will cause following memleak:

```
unreferenced object 0xffff88810b2c6980 (size 32):
  comm "kworker/u16:2", pid 635322, jiffies 4355801099 (age 1216426.076s)
  hex dump (first 32 bytes):
    00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
    40 39 24 c1 ff ff ff ff 00 f8 ea 0a 81 88 ff ff @9$.....
  backtrace:
    [<00000000098f3a26d>] alua_activate+0xb0/0x320
    [<0000000003b529641>] scsi_dh_activate+0xb2/0x140
    [<0000000007b296db3>] activate_path_work+0xc6/0xe0 [dm_multipath]
    [<0000000007adc9ace>] process_one_work+0x3c5/0x730
    [<000000000c457a985>] worker_thread+0x93/0x650
    [<000000000cb80e628>] kthread+0x1ba/0x210
    [<000000000a1e61077>] ret_from_fork+0x22/0x30
```

Fix the problem by freeing 'qdata' in error path.

Fixes: 625fe857e4fa ("scsi: scsi_dh_alua: Check `scsi_device_get()` return value")
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Diffstat

```
-rw-r--r-- drivers/scsi/device_handler/scsi_dh_alua.c 6
```

1 files changed, 4 insertions, 2 deletions

diff --git a/drivers/scsi/device_handler/scsi_dh_alua.c b/drivers/scsi/device_handler/scsi_dh_alua.c
index 362fa631f39b26..a226dc1b65d715 100644

--- a/drivers/scsi/device_handler/scsi_dh_alua.c

+++ b/drivers/scsi/device_handler/scsi_dh_alua.c

```
@@ -1145,10 +1145,12 @@ static int alua_activate(struct scsi_device *sdev,
     rcu_read_unlock();
     mutex_unlock(&h->init_mutex);
```

```
-     if (alua_rtpg_queue(pg, sdev, qdata, true))
+     if (alua_rtpg_queue(pg, sdev, qdata, true)) {
+         fn = NULL;
-     else
+     } else {
```

```
+         kfree(qdata);
+         err = SCSI_DH_DEV_OFFLINED;
+     }
    kref_put(&pg->kref, release_port_group);
out:
    if (fn)
```