CephFS - Bug #46269

ceph-fuse: ceph-fuse process is terminated by the logrotate task and what is more serious is that one Uninterruptible Sleep process will be produced

06/30/2020 06:18 AM - hongsong wu

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**Status:** Resolved
**Priority:** Normal
**Assignee:** hongsong wu
**Category:**
**Target version:** v16.0.0
**Source:** Development
**Tags:**
**Backport:** nautilus, octopus
**Regression:** No
**Severity:** 3 - minor
**Reviewed:**
**Affected Versions:**

**ceph-qa-suite:**
**Component(FS):** ceph-fuse
**Labels (FS):**
**Pull request ID:** 35844
**Crash signature (v1):**
**Crash signature (v2):**

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**Description**

1. reproduce the scene as shown below:

   (1) step 1:
   Open the terminal_1, and
   Prepare the cmd: "killall -q -1 ceph-fuse" from /etc/logrotate.d/ceph-common

   (2) step 2:
   Open the terminal_2 and
   run the cmd: "ceph-fuse -m monip:port mountpoint"

   (3) step 3:
   Switch to terminal_1 immediately, and
   Keep running the cmd: "killall -q -1 ceph-fuse"

2. You will find the following anomalies:

   The ceph-fuse process has abnormal exit, and there is an Uninterruptible Sleep mount process, just like the following:

   ```
   root@***:~: # ps -aux | grep mount
   root  271493  0.0  0.0  26484  1252 ?   D Jun28  0:00 mount -i -o remount mountpoint
   ```

   The ceph-fuse abnormal exit logs as bellow:

   ```
   7fe99f769680  0 pidfile_write: ignore empty --pid-file
   7fe99f769680 -1 init, newargv = 0x5583ca2243a0 newargc=9
   7fe9952d3700  1 client.63156060 handle_mds_map epoch 29934
   7fe999ad700 -1 received signal: Hangup pid: 1062451 from PID: 1062486 task name: killall -q -1 ceph-fuse UID: 0
   7fe9912cb700  1 client.63156060 using remount_cb
   7fe9990aca700 -1 fuse_ll: do_init: safe_write failed with error (32) Broken pipe
   7fe9990aca700 -1 fuse_ll: do_init: safe_write failed with error (32) Broken pipe
   7fe9990aca700 -1 *** Caught signal (Aborted) **
   in thread 7fe9990aca700 thread_name:ceph-fuse
   ```

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3. The reason
The SIGHUP signal handlers are not registered in parent ceph-fuse process.

more detailed explanation is as follows:
In the process of starting the ceph-fuse, if system just calls the logratote("killall -q -1 ceph-fuse ..") before the function of safe_read_exact in parent ceph-fuse process is complete, it will cause the parent ceph-fuse process abnormal exit because of the parent process don't handle the SIGHUP signal, then it will lead to the child ceph-fuse process assert because of the function call of safe_write in do_init, then it will lead the system call of "mount -i -o remount" in remount_cb become Uninterruptible Sleep process.

4. solution
Register the SIGHUP signal handlers in parent ceph-fuse process.
While running with --resolve-parent, the script "backport-create-issue" noticed that all backports of this issue are in status "Resolved" or "Rejected".