Ceph - Subtask #815

Feature # 801 (Resolved): librados: allow access to multiple clusters

Remove globals & partition g_conf

02/17/2011 09:08 AM - Greg Farnum

Status: Resolved % Done: 100%

Priority: High Spent time: 0.00 hour

Assignee: Colin McCabe

Category:

Target version: v0.31

Source: Reviewed:

Tags: Affected Versions: Backport: Pull request ID:

Description

This bug is to track the progress of removing globals and setting up g conf so it can be used as a parameter rather than a global.

Subtasks:

Subtask # 839: Globals cleanup. Replace g_conf.name with g_conf.entity_name.to_str(). R... Resolved Subtask # 840: Clean separation between different components of initialization Resolved Subtask # 841: don't call daemon_init in library code Resolved Subtask # 842: initialization: have appropriate library-specific defaults Resolved Subtask # 843: Decouple dout from g_conf Resolved Resolved Subtask # 844: g_conf should become a pointer Subtask # 845: g_conf should not be defined in library code. Resolved Subtask # 846: De-globalize SimpleMessenger, etc. Resolved Subtask # 1160: introduce CephContext to some structures in common/ Resolved Resolved Subtask # 1164: initialize g_ceph_context in common_preinit Rejected Subtask # 1227: write tests of libceph, librgw, librados library thread-safety Subtask # 1231: NUM_THREADS=3 testrados segfaults Rejected

History

#1 - 02/17/2011 09:11 AM - Greg Farnum

So one issue that occurred to me with setting this up is that we have a number of things that really **ought** to be globals. For instance, right now the SimpleMessenger can take a single Throttler and use that to restrict the flow of incoming and outgoing messages based on config options in g_conf. While it's good to remove the globals, it's entirely possible that clients will have connections to multiple clusters but still want to have a total limit on how much memory is devoted to caching messages. We'll need some way of implementing that!

#2 - 02/17/2011 02:21 PM - Colin McCabe

Good point. Some things probably should be global. However, we have a lot of things that library clients **don't** want to be global as globals now. That's the problem.

Also, even things that should be global, it's not good to have global constructors that do a lot of work. Global constructor time is scary.

#3 - 03/07/2011 10:42 AM - Colin McCabe

- Target version changed from 12 to v0.26
- Estimated time set to 0.00 h

#4 - 06/20/2011 12:06 PM - Sage Weil

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- Estimated time set to 0.00 h

#5 - 07/05/2011 09:30 AM - Colin McCabe

- Status changed from In Progress to Resolved
- Estimated time set to 0.00 h

This bug was really all about refactoring stuff to be thread-safe. Now, that task has been completed.

It's time to start testing and fixing any issues that were uncovered. That will be done in bug #1257.

Colin.

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