Ceph - Bug #9891

"Assertion: os/DBObjectMap.cc: 1214: FAILED assert(0)" in upgrade:firefly-x-giant-distro-basic-multi

10/26/2014 08:42 AM - Yuri Weinstein

Status: Resolved
Priority: Urgent
Assignee: Samuel Just
Category:
Target version:
Source: Q/A
Tags:
Backport: giant,firefly
Regression:
Severity: 3 - minor

Description
(from scrape)

Assertion: os/DBObjectMap.cc: 1214: FAILED assert(0)
ceph version 0.86-104-gb05efdd (b05efddb77290b86eb5c150776c761ab84f66f37)
  1: (ceph::__ceph_assert_fail(char const*, char const*, int, char const*)+0x8b) [0xb81feb]
  2: (DBObjectMap::lookup_parent(std::tr1::shared_ptr<DBObjectMap::_Header>)+0x798) [0xa2da28]
  3: (DBObjectMap::_clear(std::tr1::shared_ptr<DBObjectMap::_Header>, std::tr1::shared_ptr<KeyValueDB::TransactionImpl>)+0xf4) [0xa30e74]
  4: (DBObjectMap::clear(ghobject_t const&, SequencerPosition const*)+0x202) [0xa35962]
  5: (FileStore::lfn_unlink(coll_t, ghobject_t const&, SequencerPosition const&, bool)+0x16b) [0x8ff01b]
  6: (FileStore::do_transaction(ObjectStore::Transaction&, unsigned long, int, ThreadPool::TPHandle*)+0x18f) [0x913624]
  7: (FileStore::do_op(FileStore::OpSequencer*, ThreadPool::TPHandle*)+0x2cc1) [0x90ff01]
  8: (ThreadPool::worker(ThreadPool::WorkThread*)+0xa46) [0xb73176]
  9: (ThreadPool::WorkThread::entry()+0x10) [0xb74220]
 10: (clone()+0x6d) [0x7ffbf5f563bd]

archive_path: /var/lib/teuthworker/archive/teuthology-2014-10-25_18:13:01-upgrade:firefly-x-giant-dist...571584
branch: giant
description: upgrade:firefly-x/parallel/[0-cluster/start.yaml 1-firefly-install/firefly.yaml
  2-workload/[ec-rados-default.yaml rados api.yaml rados_loadgenbig.yaml test_rbd_api.yaml
test_rbd_python.yaml] 3-upgrade-sequence/upgrade-all.yaml 4-final-workload/[rados-snaps-few-objects.yaml
  rados_loadgenmix.yaml rados_mon_thrash.yaml rbd_cls.yaml rbd_import_export.yaml
gw_swift.yaml] distros/ubuntu_14.04.yaml)
email: ceph-qa@ceph.com
job_id: '571584'
kernel: &id001
kdb: true
sha1: distro
last_in_suite: false
machine_type: plana,burnupi,mira
name: teuthology-2014-10-25_18:13:01-upgrade:firefly-x-giant-dist...571584
nuke-on-error: true
os_type: ubuntu
os_version: '14.04'
overides:
  admin_socket:
    branch: giant
ceph:
  conf:
    mon:
      debug mon: 20
      debug ms: 1
      debug paxos: 20
      mon warn on legacy crush tunables: false
    osd:
      debug filestore: 20
      debug journal: 20
      debug ms: 1
      debug osd: 20
log-white-list:
  - slow request
  - scrub mismatch
  - ScrubResult
sha1: b05efddb77290b86eb5c150776c761ab84f66f37
ceph-deploy:
  branch:
    dev: giant
cnf:
  client:
    log file: /var/log/ceph/ceph-$name.$pid.log
  mon:
    debug mon: 1
    debug ms: 20
    debug paxos: 20
    osd default pool size: 2
install:
  ceph:
    sha1: b05efddb77290b86eb5c150776c761ab84f66f37
s3tests:
  branch: giant
workunit:
  sha1: b05efddb77290b86eb5c150776c761ab84f66f37
owner: scheduled_teuthology@teuthology
priority: 99
roles:
  - mon.a
  - mds.a
  - osd.0
  - osd.1
  - mon.b
  - mon.c
  - osd.2
  - osd.3
  - client.0
  - client.1
suite: upgrade:firefly-x
suite_branch: giant
suite_path: /var/lib/teuthworker/src/ceph-qa-suite_giant
targets:
  ubuntu@burnupi55.front.sepia.ceph.com: ssh-rsa

ubuntu@plana29.front.sepia.ceph.com: ssh-rsa

ubuntu@plana38.front.sepia.ceph.com: ssh-rsa
tasks:
- internal.lock_machines:
  - 3
  - plana,burnupi,mira
- internal.save_config: null
- internal.check_lock: null
- internal.connect: null
- internal.push_inventory: null
- internal.serialize_remote_roles: null
- internal.check_conflict: null
- internal.check_ceph_data: null
- internal.vm_setup: null
- kernel: *id001
- internal.base: null
- internal.archive: null
- internal.coredump: null
- internal.sudo: null
- internal.syslog: null
- internal.timer: null
- chef: null
- clock.check: null
- install:
  - branch: firefly
  - print: "**** done installing firefly"
- ceph:
  - fs: xfs
  - print: "**** done ceph"
- parallel:
  - workload
  - upgrade-sequence
  - print: "**** done parallel"
- rados:
  - clients:
    - client.1
    objects: 50
    op_weights:
      delete: 50
      read: 100
      rollback: 50
      snap_create: 50
      snap_remove: 50
      write: 100
    ops: 4000
  - workunit:
    - clients:
      - client.1:
        - rados/load-gen-mix.sh
    - mon_thash:
      - revive_delay: 20
      - thrash_delay: 1
  - workunit:
    - clients:
      - client.1:
        - rados/test.sh
  - workunit:
    - clients:
      - client.1:
        - cls/test_cls_rbd.sh
  - workunit:
    - clients:
      - client.1:
        - rbd/import_export.sh
env:
RBD_CREATE_ARGS: --new-format

rgw:
  - client.1
swift:
  client.1:
    rgw_server: client.1
teuthology_branch: master
tube: multi
upgrade-sequence:
  sequential:
    - install.upgrade:
      mon.a: null
      mon.b: null
    - ceph.restart:
      - mon.a
      - mon.b
      - mon.c
      - mds.a
      - osd.0
      - osd.1
      - osd.2
      - osd.3
verbose: true
worker_log: /var/lib/teuthworker/archive/worker_logs/worker.multi.3115
workload:
  sequential:
    - rados:
      clients:
        - client.0
      ec_pool: true
      objects: 50
      op_weights:
        append: 100
        copy_from: 50
        delete: 50
        read: 100
        rmattr: 25
        rollback: 50
        setattr: 25
        snap_create: 50
        snap_remove: 50
        write: 0
        ops: 4000
    - workunit:
      branch: firefly
      clients:
        client.0:
        - cls
    - workunit:
      branch: firefly
      clients:
        client.0:
        - rados/load-gen-big.sh
    - workunit:
      branch: firefly
      clients:
        client.0:
        - rbd/test_librbd.sh
    - workunit:
      branch: firefly
      clients:
        client.0:
        - rbd/test_librbd_python.sh
description: upgrade:firefly-x/parallel/[0-cluster/start.yaml 1-firefly-install/firefly.yaml
2-workload/[ec-rados-default.yaml rados_api.yaml rados_loadgenbig.yaml test_rbd_api.yaml
  test_rbd_python.yaml] 3-upgrade-sequences/upgrad-all.yaml 4-final-workload/{rados-snaps-few-objects.yaml
  rados_loadgenmix.yaml rados_mon_thrash.yaml rbd_cls.yaml rbd_import_export.yaml
  rgw_swift.yaml} distros/ubuntu_14.04.yaml]
duration: 2967.701498031616
failure_reason: "'wait_until_healthy' reached maximum tries (150) after waiting for 900 seconds"
flavor: basic
owner: scheduled_teuthology@teuthology
status: fail
success: false

History
#1 - 10/27/2014 02:44 PM - Samuel Just
2014-10-25 18:56:23.243456 7fefddcc3e700 20 filestore dbobjectmap: seq is 485
2014-10-25 18:56:23.243559 7fe0d43f700 20 filestore dbobjectmap: seq is 486
2014-10-25 18:56:23.243602 7fe0d43f700 20 filestore dbobjectmap: seq is 487
2014-10-25 18:56:23.243628 7fe0d43f700 20 filestore set_header: setting seq 324
2014-10-25 18:56:23.243642 7fe0d43f700 20 filestore set_map_header: setting 485 oid
fb2248dc/burnupi5544081-40/45/3/18446744073709551615/2 parent seq 324
2014-10-25 18:56:23.243655 7fe0d43f700 20 filestore set_map_header: setting 486 oid fb2248dc/burnupi5544081-40/45/3/18446744073709551615/2 parent seq 324
...
2014-10-25 18:56:30.801289 7ffbf8345900  0 ceph version 0.86-104-gb05efdd (b05efddb77290b86eb5c150776c761ab8466f837), process ceph-osd, pid 18817
...
2014-10-25 18:56:31.104055 7ffbf8345900 20 filestore (init/dbobjectmap: seq is 485
...
2014-10-25 18:56:40.629704 7ffbe8e4d700 20 filestore/objectmap clone
2014-10-25 18:56:40.629834 7ffbe8e4d700 20 filestore dbobjectmap: seq is 487
2014-10-25 18:56:40.629878 7ffbe8e4d700 20 filestore dbobjectmap: seq is 488
2014-10-25 18:56:40.629907 7ffbe8e4d700 20 filestore set_header: setting seq 453
2014-10-25 18:56:40.629966 7ffbe8e4d700 20 filestore set_map_header: setting 486 oid
ac9e8d1a/burnupi5544081-15/15/3/18446744073709551615/1 parent seq 453
2014-10-25 18:56:40.629959 7ffbe8e4d700 20 filestore set_map_header: setting 487 oid
ac9e8d1a/burnupi5544081-15/15/3/18446744073709551615/1 parent seq 453
...
2014-10-25 18:56:41.920056 7ffbe8e4d700 20 filestore clear_header: clearing seq 486
...
2014-10-25 18:56:41.933829 7ffbe8e4d700 20 filestore remove_map_header: removing 489 oid ac9e8d1a/burnupi5544081-15/15/3/360/1 parent seq 453
2014-10-25 18:56:41.933957 7ffbe8e4d700 20 filestore clear_header: clearing seq 489
...
2014-10-25 18:56:41.933847 7ffbe8e4d700 20 filestore > header.spos 0.0
2014-10-25 18:56:41.933890 7ffbe8e4d700 15 filestore/objectmap_setkeys meta/18446744073709551615/1
2014-10-25 18:56:41.933932 7ffbe8e4d700 10 filestore oid: 11137/pgsql_3.as2/0/-1 not skipping op, *spos 7669.4
2014-10-25 18:56:41.933944 7ffbe8e4d700 20 filestore clear_header: clearing seq 489
2014-10-25 18:56:41.933947 7ffbe8e4d700 10 filestore > header.spos 0.0
2014-10-25 18:56:41.934078 7ffbe8e4d700 15 filestore/objectmap_setkeys meta/11137/pgsql_3.as2/0/-1
2014-10-25 18:56:41.934087 7ffbe8e4d700 10 filestore oid: 11137/pgsql_3.as2/0/-1 not skipping op, *spos 7669.0.5
2014-10-25 18:56:41.934107 7ffbe8e4d700 10 filestore/objectmap_setkeys meta/18446744073709551615/1
2014-10-25 18:56:41.934108 7ffbe8e4d700 20 filestore lookup_parent: parent 486 for seq 489

So, the transaction updating dbobjectmap seq didn't apply for some reason. It would have been submitted before the transaction actually writing out the nodes using it, so that's definitely odd since burnupi5544081-40/45/3/484/2 was apparently written out with seq 486. This must be either a filesystem thing or a leveldb thing. It's not clear to me how it could have been a filesystem thing though.
does not appear to be a ceph issue.. either bad disk or leveldb corruption or something. lowering priority.

#3 - 12/02/2014 01:43 PM - Samuel Just
- Status changed from New to Rejected

#4 - 01/12/2015 07:51 AM - Loic Dachary

0> 2015-01-11 09:18:46.804341 7f6d1c7c3700 -1 os/DBObjectMap.cc: In function 'DBObjectMap::Header' thread 7f6d1c7c3700 time 2015-01-11 09:18:46.775993
os/DBObjectMap.cc: 1214: FAILED assert(0)

NOTE: a copy of the executable, or `objdump -rdS <executable>` is needed to interpret this.

11/19/2015
#5 - 02/16/2015 05:04 PM - Yuri Weinstein

- Status changed from Rejected to New

See in release giant v0.87.1 RC
Job: [754710]

Assertion: os/DBObjectMap.cc: 1214: FAILED assert(0)
ceph version 0.87-159-gccb0914 (ccb0914f76da23accd7374233cd1939ab80ef3c8)
1: (ceph::__ceph_assert_fail(char const*, char const*, int, char const*)+0x8b) [0xb82c4b]
2: (DBObjectMap::lookup_parent(std::shared_ptr<DBObjectMap>::Header>)+0x798) [0xa2e6d8]
3: (DBObjectMap::clear(std::shared_ptr<DBObjectMap>::Header>, std::shared_ptr<KeyValueDB::TransactionImpl>)+0xf4) [0xa31b24]
4: (DBObjectMap::clear(ghobject_t const&, SequencerPosition const*)+0x202) [0xa36612]
5: (FileStore::lfn_unlink(coll_t, ghobject_t const&, SequencerPosition const&, bool)+0x16b) [0x8ff55b]
6: (FileStore::remove(coll_t, ghobject_t const&, SequencerPosition const&, bool)+0x8b) [0x8ff9eb]
7: (FileStore::do_transaction(ObjectStore::Transaction&, unsigned long, int, ThreadPool::TPHandle*)+0x2cc1) [0x910441]
8: (FileStore::do_transactions(std::list<ObjectStore::Transaction*, std::allocator<ObjectStore::Transaction*> >, unsigned long, ThreadPool::TPHandle*)+0x64) [0x913b64]
9: (FileStore::do_op(FileStore::OpSequencer*, ThreadPool::TPHandle*)+0x18f) [0x913d0f]
10: (ThreadPool::worker(ThreadPool::WorkThread*)+0xa46) [0xb73dd6]
11: (ThreadPool::WorkThread::entry()+0x10) [0xb74e60]
12: (())+0x8182) [0x7f5c252de182]
13: (clone())+0x6d) [0x7f5c23848efd]

#6 - 02/16/2015 11:21 PM - Yuri Weinstein
- Backport set to giant

#7 - 02/20/2015 07:02 PM - Yuri Weinstein
- Priority changed from High to Urgent

#8 - 02/20/2015 07:54 PM - Yuri Weinstein

Verified that this test:
rados/thrash-erasure-code/{clusters/fixed-2.yaml fs/xfs.yaml msgr-failures/few.yaml thrashers/default.yaml workloads/ec-rados-plugin-erasure-k=2-m=1.yaml}
#9 - 02/20/2015 09:32 PM - Samuel Just
- Status changed from New to Testing
- Assignee set to Samuel Just
- Backport changed from giant to hammer,giant,firefly,dumpling

2015-02-13 03:40:47.208535 7f0e9b5ec700 20 filestore dbobjectmap: seq is 271
2015-02-13 03:40:47.208564 7f0e9adeb700 20 filestore dbobjectmap: seq is 271
2015-02-13 03:40:47.208579 7f0e9b5ec700 20 filestore dbobjectmap: seq is 272

Note that there are two threads participating there! DBOjectMap::sync() doesn't take the header_lock!

#10 - 02/20/2015 09:32 PM - Samuel Just
This can be ignored for the present giant release though.

#11 - 03/04/2015 03:12 PM - Samuel Just
- Status changed from Testing to Pending Backport

#12 - 03/11/2015 09:18 AM - Loic Dachary
  - firefly backport https://github.com/ceph/ceph/pull/3948

#13 - 03/19/2015 09:32 AM - Loic Dachary
  - giant backport https://github.com/ceph/ceph/pull/4094

#14 - 03/26/2015 12:23 PM - Loic Dachary
- Backport changed from hammer,giant,firefly,dumpling to hammer,giant,firefly
dumpling is end of life

#15 - 03/26/2015 12:27 PM - Loic Dachary
- Backport changed from hammer,giant,firefly to giant,firefly
already in hammer

#16 - 03/26/2015 12:27 PM - Loic Dachary
- Status changed from Pending Backport to Resolved