Ceph - Bug #10059

osd/ECBackend.cc: 876: FAILED assert(0)

11/10/2014 03:20 PM - Samuel Just

Status: Resolved Start date: 11/10/2014

Priority: Urgent Due date:

Assignee: Samuel Just % Done: 0%

Category:Estimated time:0.00 hourTarget version:Spent time:0.00 hour

Source: other Reviewed:

Tags: Affected Versions:

 Backport:
 giant, firefly
 ceph-qa-suite:

 Regression:
 No
 Pull request ID:

Severity: 3 - minor

Description

-1> 2014-11-09 14:13:01.334410 7f8b93c8b700 10 filestore(/var/lib/ceph/osd/ceph-3)

FileStore::read(1.1ds0_head/78348bbd/benchmark_data_plana76_6098_object6568/head//1/18446744073709551615/0) open error: (2) No such file or directory

0> 2014-11-09 14:13:01.337431 7f8b93c8b700 -1 osd/ECBackend.cc: In function 'void ECBackend::handle_sub_read(pg_shard_t, ECSubRead&, ECSubReadReply*)' thread 7f8b93c8b700 time 2014-11-09 14:13:01.334418 osd/ECBackend.cc: 876: FAILED assert(0)

ceph version 0.87-573-q6977d02 (6977d02f0d31c453cdf554a8f1796f290c1a3b89)

- 1: (ceph:: ceph assert fail(char const*, char const*, int, char const*)+0x7f) [0xaa870f]
- 2: (ECBackend::handle_sub_read(pg_shard_t, ECSubRead&, ECSubReadReply*)+0x932) [0x949782]
- 3: (ECBackend::handle message(std::tr1::shared ptr<OpRequest>)+0x4b1) [0x957461]
- 4: (ReplicatedPG::do_request(std::tr1::shared_ptr<OpRequest>&, ThreadPool::TPHandle&)+0x15a) [0x7d571a]
- 5: (OSD::dequeue op(boost::intrusive ptr<PG>, std::tr1::shared ptr<OpRequest>, ThreadPool::TPHandle&)+0x17f) [0x656f9f]
- 6: (OSD::ShardedOpWQ::_process(unsigned int, ceph::heartbeat_handle_d*)+0x65f) [0x6579ff]
- 7: (ShardedThreadPool::shardedthreadpool worker(unsigned int)+0x652) [0xa99352]
- 8: (ShardedThreadPool::WorkThreadSharded::entry()+0x10) [0xa9aa80]
- 9: (()+0x7e9a) [0x7f8baf2a6e9a]

5> 2014 11 09 14:13:01.334302 7f8b93c8b700 5

op tracker -- seq: 65517, time: 2014-11-09 14:13:01.334302, event: reached_pg, op: MOSDECSubOpRead(1.1ds0 103 ECSubRead(tid=12070, to_read={78348bbd/benchmark_data_plana76_6098_object6568/head//1=0,524288}, attrs_to_read=78348bbd/benchmark_data_plana76_6098_object6568/head//1))

-4> 2014-11-09 14:13:01.334313 7f8b93c8b700 10 osd.3 pg_epoch: 103 pg[1.1ds0(v 92'740 (0'0,92'740] local-les=92 n=183 ec=9 les/c 92/92 93/98/98) [1,3,0] r=-1 lpr=98 pi=91-97/3 luod=0'0 crt=92'737 lcod 92'737 active] handle_message: MOSDECSubOpRead(1.1ds0 103 ECSubRead(tid=12070, to_read={78348bbd/benchmark_data_plana76_6098_object6568/head//1=0,524288}, attrs_to_read=78348bbd/benchmark_data_plana76_6098_object6568/he

ad//1)) v1

-3> 2014-11-09 14:13:01.334333 7f8b93c8b700 15 filestore(/var/lib/ceph/osd/ceph-3) read 1.1ds0_head/78348bbd/benchmark_data_plana76_6098_object6568/head//1/18446744073709551615/0 0~524288

-2> 2014-11-09 14:13:01.334397 7f8b93c8b700 10 filestore(/var/lib/ceph/osd/ceph-3) error opening file /var/lib/ceph/osd/ceph-3/current/1.1ds0_head/DIR_D/DIR_B/benchmark\udata\uplana76\u6098\uobject6568_head_78348BBD__1_fffffffffffffffff0 with flags=2: (2) No such file or directory

 $2014-11-09\ 14:12:33.028797\ 7f8b93c8b700\ 20\ osd.3\ pg_epoch: 92\ pg[1.1ds0(\ v\ 92'740\ (0'0,92'740]\ local-les=92\ n=183\ ec=9\ les/c\\ 92/92\ 90/91/91)\ [2147483647,4,5]/[3,4,5]\ r=0\ lpr=91\ luod=92'738\ crt=92'737\ lcod\ 92'737\ mlcod\ 92'737\ active+remapped]\ check_op\ tid\ 12344: Op(78348bbd/benchmark_data_plana76_6098_object6568/head//1\ v=92'739\ tt=0'0\ tid=12344\ reqid=client.4115.0:19498\ client_op=osd_op(client.4115.0:19498\ benchmark_data_$

plana76_6098_object6568 [delete] 1.78348bbd ack+ondisk+write+known_if_redirected e92) pending_commit=5(2) pending_apply=5(2))

2014-11-09 14:12:57.902407 7f8b96c91700 20 merge log 92'735 (83'362) delete

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4451151d/benchmark_data_plana76_6098_object6501/head//1 by client.4115.0:19431 2014-11-09 14:12:23.055232 2014-11-09 14:12:57.902415 7f8b96c91700 20 merge_log 92'736 (83'363) delete d91728bd/benchmark_data_plana76_6098_object6505/head//1 by client.4115.0:19435 2014-11-09 14:12:23.447074 2014-11-09 14:12:57.902422 7f8b96c91700 20 merge_log 92'737 (83'364) delete e9a88cbd/benchmark_data_plana76_6098_object6515/head//1 by client.4115.0:19445 2014-11-09 14:12:24.123917 2014-11-09 14:12:57.902430 7f8b96c91700 20 merge_log 92'738 (83'365) delete a1d82bbd/benchmark_data_plana76_6098_object6521/head//1 by client.4115.0:19451 2014-11-09 14:12:24.421805 2014-11-09 14:12:57.902751 7f8b96c91700 10 merge_log result log((0'0,92'738], crt=92'738) missing(185) changed=1 2014-11-09 14:12:57.903244 7f8b96c91700 5 osd.3 pg_epoch: 100 pg[1.1ds1(v 92'738 lc 0'0 (0'0,92'738] local-les=0 n=185 ec=9 les/c 92/92 93/98/98) [1,3,0] r=1 lpr=100 pi=91-97/3 crt=92'738 inactive m=185] exit Started/Stray 0.011615 1 0.000080

So, the object was deleted, but that entry ended up divergent. A different shard was created on the osd (shard 1) which then the primary did not realize didn't have a copy.

ubuntu@teuthology:/a/sage-2014-11-09 07:49:57-rados-next-testing-basic-multi/592008/remote

Related issues:

Duplicated by Ceph - Bug #10107: Coredump in upgrade:giant-x-next-distro-basi...

Duplicate

11/14/2014

Associated revisions

Revision c87bde64 - 11/14/2014 11:51 PM - Samuel Just

PG: always clear_primary_state when leaving Primary

Otherwise, entries from the log collection process might leak into the next epoch, where we might end up choosing a different authoritative log. In this case, it resulted in us not rolling back to log entries on one of the replicas prior to trying to recover from an affected object due to the peer_missing not being cleared.

Fixes: #10059

Backport: giant, firefly, dumpling

Signed-off-by: Samuel Just <siust@redhat.com>

Revision 8b07236c - 03/11/2015 09:39 AM - Samuel Just

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Fixes: #10059

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Signed-off-by: Samuel Just <sjust@redhat.com>

(cherry picked from commit c87bde64dfccb5d6ee2877cc74c66fc064b1bcd7)

Revision 0c3f7637 - 03/19/2015 09:08 AM - Samuel Just

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PG: always clear_primary_state when leaving Primary

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Signed-off-by: Samuel Just <sjust@redhat.com>

(cherry picked from commit c87bde64dfccb5d6ee2877cc74c66fc064b1bcd7)

History

#1 - 11/10/2014 04:09 PM - Dmitry Smirnov

This bug makes me cry as it is the reason for my cluster to be completely down for over 10 days now... Duplicate added...

#2 - 11/13/2014 05:02 PM - Dmitry Smirnov

Any progress?

#3 - 11/14/2014 03:12 PM - Samuel Just

This is almost certainly unrelated to those two bugs. This is a specific edge case in divergent write recovery.

#4 - 11/14/2014 03:45 PM - Samuel Just

- Status changed from New to Testing

#5 - 11/16/2014 02:09 AM - Dmitry Smirnov

Samuel Just wrote:

This is almost certainly unrelated to those two bugs. This is a specific edge case in divergent write recovery.

Obviously you know better so there is no surprise that c87bde64 did not help #9978...

#6 - 12/12/2014 02:24 PM - Samuel Just

- Status changed from Testing to Pending Backport
- Backport set to giant, firefly

#7 - 12/19/2014 02:08 AM - Dmitry Smirnov

I applied c87bde64 on top of 0.89 on degraded cluster but it caused many PGs to stuck in "inactive" state so I had to revert it...

#8 - 03/11/2015 09:40 AM - Loic Dachary

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• firefly backport https://github.com/ceph/ceph/pull/3955

#9 - 03/11/2015 09:42 AM - Loic Dachary

• original pull request https://github.com/ceph/ceph/pull/3154

#10 - 03/19/2015 09:08 AM - Loic Dachary

• giant backport https://github.com/ceph/ceph/pull/4090

#11 - 03/26/2015 01:36 PM - Loic Dachary

0c3f763 PG: always clear_primary_state when leaving Primary (in giant), 8b07236 PG: always clear_primary_state when leaving Primary (in firefly),

#12 - 03/26/2015 01:36 PM - Loic Dachary

- Status changed from Pending Backport to Resolved

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