

## Ceph - Bug #18929

"osd/PG.cc: 6896: FAILED assert(pg->is\_acting(osd\_with\_shard) || pg->is\_up(osd\_with\_shard))" in rados/upgrade

02/14/2017 04:42 PM - Yuri Weinstein

<b>Status:</b>	Resolved	<b>Start date:</b>	02/14/2017
<b>Priority:</b>	Urgent	<b>Due date:</b>	
<b>Assignee:</b>	Greg Farnum	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Spent time:</b>	0.00 hour
<b>Source:</b>	Q/A	<b>Severity:</b>	3 - minor
<b>Tags:</b>		<b>Reviewed:</b>	
<b>Backport:</b>	kraken,jewel	<b>Affected Versions:</b>	
<b>Regression:</b>	No	<b>ceph-qa-suite:</b>	rados

### Description

(part of PRs testing batch <https://trello.com/c/wqtuiCLb>)

Run: [http://pulpito.ceph.com/yuriw-2017-02-14\\_00:18:31-rados-wip-yuri-testing2\\_2017\\_2\\_14---basic-smithi/](http://pulpito.ceph.com/yuriw-2017-02-14_00:18:31-rados-wip-yuri-testing2_2017_2_14---basic-smithi/)

Job: [http://pulpito.ceph.com/yuriw-2017-02-14\\_00:18:31-rados-wip-yuri-testing2\\_2017\\_2\\_14---basic-smithi/812148](http://pulpito.ceph.com/yuriw-2017-02-14_00:18:31-rados-wip-yuri-testing2_2017_2_14---basic-smithi/812148)

Logs: [/a/yuriw-2017-02-14\\_00:18:31-rados-wip-yuri-testing2\\_2017\\_2\\_14---basic-smithi/812148/teuthology.log](/a/yuriw-2017-02-14_00:18:31-rados-wip-yuri-testing2_2017_2_14---basic-smithi/812148/teuthology.log)

```
yuriw@teuthology ~ [16:38:27]> grep -i caught /a/yuriw-2017-02-14_00:18:31-rados-wip-yuri-testing
2_2017_2_14---basic-smithi/812148/teuthology.log -b10 -a20
444787790-2017-02-14T01:31:35.396 INFO:tasks.ceph.osd.1.smithi171.stderr: -3056> 2017-02-14 01:31:
35.353391 7f4ec3904700 -1 /build/ceph-12.0.0-279-gd8a7d0d/src/osd/PG.cc: In function 'boost::state
chart::result PG::RecoveryState::Active::react(const PG::AdvMap&)' thread 7f4ec3904700 time 2017-0
2-14 01:31:35.350665
444788095-2017-02-14T01:31:35.396 INFO:tasks.ceph.osd.1.smithi171.stderr: /build/ceph-12.0.0-279-gd
8a7d0d/src/osd/PG.cc: 6896: FAILED assert(pg->is_acting(osd_with_shard) || pg->is_up(osd_with_shar
d))
444788285-2017-02-14T01:31:35.397 INFO:tasks.ceph.osd.1.smithi171.stderr:
444788349-2017-02-14T01:31:35.397 INFO:tasks.ceph.osd.1.smithi171.stderr: ceph version 12.0.0-279-
gd8a7d0d (d8a7d0d1a7113686b4b1f2554406d36ef584c290)
444788489-2017-02-14T01:31:35.398 INFO:tasks.ceph.osd.1.smithi171.stderr: 1: (ceph::__ceph_assert_
fail(char const*, char const*, int, char const*)+0x10e) [0x7f4edec8833e]
444788650-2017-02-14T01:31:35.398 INFO:tasks.ceph.osd.1.smithi171.stderr: 2: (PG::RecoveryState::A
ctive::react(PG::AdvMap const&)+0x167) [0x7f4ede82b877]
444788794-2017-02-14T01:31:35.398 INFO:tasks.ceph.osd.1.smithi171.stderr: 3: (boost::statechart::s
imple_state<PG::RecoveryState::Active, PG::RecoveryState::Primary, PG::RecoveryState::Activating,
(boost::statechart::history_mode)0>::react_impl(boost::statechart::event_base const&, void const*)
+0x266) [0x7f4ede881e86]
444789103-2017-02-14T01:31:35.398 INFO:tasks.ceph.osd.1.smithi171.stderr: 4: (boost::statechart::s
imple_state<PG::RecoveryState::Clean, PG::RecoveryState::Active, boost::mpl::list<mpl::na, mpl:::
na, mpl::na, mpl::na, mpl::na, mpl::na, mpl::na, mpl::na, mpl::na, mpl::na, mpl::na, mpl::na,
mpl::na, mpl::na, mpl::na, mpl::na, mpl::na, mpl::na, mpl::na, mpl::na, mpl::na, mpl::na>, (boost::sta
techart::history_mode)0>::react_impl(boost::statechart::event_base const&, void const*)+0x5a) [0x7
f4ede87ec4a]
444789596-2017-02-14T01:31:35.398 INFO:tasks.ceph.osd.1.smithi171.stderr: 5: (boost::statechart::s
tate_machine<PG::RecoveryState::RecoveryMachine, PG::RecoveryState::Initial, std::allocator<void>,
boost::statechart::null_exception_translator>::send_event(boost::statechart::event_base const&)+0
x5b) [0x7f4ede8632bb]
444789902-2017-02-14T01:31:35.399 INFO:tasks.ceph.osd.1.smithi171.stderr: 6: (PG::handle_advance_m
ap(std::shared_ptr<OSDMap const>, std::shared_ptr<OSDMap const>, std::vector<int, std::allocator<i
nt> >&, int, std::vector<int, std::allocator<int> >&, int, PG::RecoveryCtx*)+0x48f) [0x7f4ede83303
f]
444790189-2017-02-14T01:31:35.399 INFO:tasks.ceph.osd.1.smithi171.stderr: 7: (OSD::advance_pg(unsig
ned int, PG*, ThreadPool::TPHandle&, PG::RecoveryCtx*, std::set<boost::intrusive_ptr<PG>, std::le
ss<boost::intrusive_ptr<PG> >, std::allocator<boost::intrusive_ptr<PG> > >*)+0x299) [0x7f4ede787a7
9]
```

```
444790476-2017-02-14T01:31:35.400 INFO:tasks.ceph.osd.1.smithi171.stderr: 8: (OSD::process_peering_events(std::list<PG*, std::allocator<PG*> > const&, ThreadPool::TPHandle&)+0x1a5) [0x7f4ede798665]
444790664-2017-02-14T01:31:35.400 INFO:tasks.ceph.osd.1.smithi171.stderr: 9: (OSD::PeeringWQ::_process(std::list<PG*, std::allocator<PG*> > const&, ThreadPool::TPHandle&)+0x17) [0x7f4ede7e67c7]
444790848-2017-02-14T01:31:35.400 INFO:tasks.ceph.osd.1.smithi171.stderr: 10: (ThreadPool::worker(ThreadPool::WorkThread*))+0xb65) [0x7f4edec8ee15]
444790985-2017-02-14T01:31:35.400 INFO:tasks.ceph.osd.1.smithi171.stderr: 11: (ThreadPool::WorkThread::entry()+0x10) [0x7f4edec8fde0]
444791109-2017-02-14T01:31:35.401 INFO:tasks.ceph.osd.1.smithi171.stderr: 12: (()+0x8184) [0x7f4edca25184]
444791206-2017-02-14T01:31:35.402 INFO:tasks.ceph.osd.1.smithi171.stderr: 13: (clone()+0x6d) [0x7f4edbb1537d]
444791306-2017-02-14T01:31:35.402 INFO:tasks.ceph.osd.1.smithi171.stderr: NOTE: a copy of the executable, or `objdump -rdS <executable>` is needed to interpret this.
```

**Related issues:**

- Copied to Ceph - Backport #18999: kraken: "osd/PG.cc: 6896: FAILED assert(pg->is\_acting(osd\_with\_shard) || pg->is\_up(osd\_with\_shard))" **Resolved**
- Copied to Ceph - Backport #19000: jewel: "osd/PG.cc: 6896: FAILED assert(pg->is\_acting(osd\_with\_shard) || pg->is\_up(osd\_with\_shard))" **Resolved**

**History**

**#1 - 02/14/2017 04:46 PM - Sage Weil**

```
2017-02-14 01:31:34.313088 7f4ec3904700 10 osd.1 pg_epoch: 2605 pg[2.5d( empty local-les=2605 n=0 ec=1620 les/c/f 2605/2600/0 2604/2604/2604) []/[1] r=0 lpr=2604 pi=2596-2603/3 crt=0'0 mlcod 0'0 active+undersized+degraded+remapped] choose_acting want [1,5] != acting [1], requesting pg_temp change
...
2017-02-14 01:31:35.350650 7f4ec3904700 10 osd.1 pg_epoch: 2605 pg[2.5d( empty local-les=2605 n=0 ec=1620 les/c/f 2605/2605/0 2604/2604/2604) []/[1] r=0 lpr=2604 crt=0'0 mlcod 0'0 active+undersized+degraded+remapped] handle_advance_map [3,4]/[1] -- 3/1
2017-02-14 01:31:35.350661 7f4ec3904700 10 osd.1 pg_epoch: 2606 pg[2.5d( empty local-les=2605 n=0 ec=1620 les/c/f 2605/2605/0 2604/2604/2604) []/[1] r=0 lpr=2604 crt=0'0 mlcod 0'0 active+undersized+degraded+remapped] state<Started/Primary/Active>: Active advmap
2017-02-14 01:31:35.353391 7f4ec3904700 -1 /build/ceph-12.0.0-279-gd8a7d0d/src/osd/PG.cc: In function 'boost::statechart::result PG::RecoveryState::Active::react(const PG::AdvMap&)' thread 7f4ec3904700 time 2017-02-14 01:31:35.350665
/build/ceph-12.0.0-279-gd8a7d0d/src/osd/PG.cc: 6896: FAILED assert(pg->is_acting(osd_with_shard) || pg->is_up(osd_with_shard))
```

The code is

```
for (size_t i = 0; i < pg->want_acting.size(); i++) {
    int osd = pg->want_acting[i];
    if (!advmap.osdmap->is_up(osd)) {
        pg_shard_t osd_with_shard(osd, shard_id_t(i));
        assert(pg->is_acting(osd_with_shard) || pg->is_up(osd_with_shard));
    }
}
```

I can't tell what that loop and assert is intended to check. The acting set can change arbitrarily, with no regard to what want\_acting in the prior interval was!

**#2 - 02/14/2017 07:13 PM - Sage Weil**

- Status changed from *New* to *Testing*

<https://github.com/ceph/ceph/pull/13420>

**#3 - 02/14/2017 08:30 PM - Sage Weil**

- Project changed from *ceph-qa-suite* to *Ceph*

**#4 - 02/15/2017 09:54 PM - Samuel Just**

samuelj@teuthology:/a/samuelj-2017-02-15\_01:03:44-rados-wip-sam-testing---basic-smithi/816292 also

**#5 - 02/15/2017 09:55 PM - Samuel Just**

I don't understand why this is not popping up. Sage's patch is correct, but something else is going on. Why is the up set empty here?

**#6 - 02/16/2017 06:58 PM - Sage Weil**

- Priority changed from *Normal* to *Immediate*

**#7 - 02/17/2017 06:13 PM - Samuel Just**

- Assignee set to *Greg Farnum*

**#8 - 02/18/2017 06:57 PM - Sage Weil**

- Status changed from *Testing* to *Pending Backport*

- Backport set to *kraken,jewel*

**#9 - 02/20/2017 10:51 AM - Loic Dachary**

- Copied to Backport #18999: *kraken: "osd/PG.cc: 6896: FAILED assert(pg->is\_acting(osd\_with\_shard) || pg->is\_up(osd\_with\_shard))" in rados/upgrade added*

**#10 - 02/20/2017 10:51 AM - Loic Dachary**

- Copied to Backport #19000: *jewel: "osd/PG.cc: 6896: FAILED assert(pg->is\_acting(osd\_with\_shard) || pg->is\_up(osd\_with\_shard))" in rados/upgrade added*

**#11 - 02/23/2017 03:23 PM - Sage Weil**

- Priority changed from *Immediate* to *Urgent*

**#12 - 07/06/2017 07:18 AM - Nathan Cutler**

- Status changed from *Pending Backport* to *Resolved*