

Ceph - Bug #12419

TEST_crush_rule_create_erasure consistently fails on i386 builder

07/21/2015 01:54 PM - Kefu Chai

Status:	Resolved	% Done:	0%
Priority:	High	Spent time:	0.00 hour
Assignee:	Loïc Dachary		
Category:			
Target version:			
Source:	Development	Affected Versions:	
Tags:		ceph-qa-suite:	
Backport:	hammer	Pull request ID:	
Regression:	No	Crash signature (v1):	
Severity:	3 - minor	Crash signature (v2):	
Reviewed:			

Description

see

<http://gitbuilder.sepia.ceph.com/gitbuilder-ceph-tarball-trusty-i386-basic/log.cgi?log=787fa80c2746fde44ac0583ff7995ec5be9a672d>

only spotted on i386 builder.

```
../qa/workunits/ceph-helpers.sh:94: setup: mkdir -p testdir/osd-crush
./test/mon/osd-crush.sh:32: run: TEST_crush_rule_create_erasure testdir/osd-crush
./test/mon/osd-crush.sh:86: TEST_crush_rule_create_erasure: local dir=testdir/osd-crush
./test/mon/osd-crush.sh:88: TEST_crush_rule_create_erasure: run_mon testdir/osd-crush a
../qa/workunits/ceph-helpers.sh:282: run_mon: local dir=testdir/osd-crush
../qa/workunits/ceph-helpers.sh:283: run_mon: shift
../qa/workunits/ceph-helpers.sh:284: run_mon: local id=a
../qa/workunits/ceph-helpers.sh:285: run_mon: shift
../qa/workunits/ceph-helpers.sh:286: run_mon: local data=testdir/osd-crush/a
../qa/workunits/ceph-helpers.sh:289: run_mon: ceph-mon --id a --mkfs --mon-data=testdir/osd-crush/
a --run-dir=testdir/osd-crush
ceph-mon: mon.noname-a 127.0.0.1:7104/0 is local, renaming to mon.a
ceph-mon: set fsid to 330fc7c7-ceb9-41e5-8033-c0554ec321b4
ceph-mon: created monfs at testdir/osd-crush/a for mon.a
../qa/workunits/ceph-helpers.sh:296: run_mon: ceph-mon --id a --mon-osd-full-ratio=.99 --mon-data-
avail-crit=1 --paxos-propose-interval=0.1 --osd-crush-chooseleaf-type=0 --osd-pool-default-erasure
-code-directory=.libs --debug-mon 20 --debug-ms 20 --debug-paxos 20 --chdir= --mon-data=testdir/os
d-crush/a '--log-file=testdir/osd-crush/$name.log' '--admin-socket=testdir/osd-crush/$cluster-$nam
e.asok' --mon-cluster-log-file=testdir/osd-crush/log --run-dir=testdir/osd-crush '--pid-file=testd
ir/osd-crush/$name.pid'
../qa/workunits/ceph-helpers.sh:314: run_mon: cat
../qa/workunits/ceph-helpers.sh:314: run_mon: get_config mon a fsid
../qa/workunits/ceph-helpers.sh:653: get_config: local daemon=mon
../qa/workunits/ceph-helpers.sh:654: get_config: local id=a
../qa/workunits/ceph-helpers.sh:655: get_config: local config=fsid
../qa/workunits/ceph-helpers.sh:657: get_config: CEPH_ARGS=
../qa/workunits/ceph-helpers.sh:657: get_config: ceph --format xml daemon testdir/osd-crush/ceph-
mon.a.asok config get fsid
../qa/workunits/ceph-helpers.sh:660: get_config: xmlstarlet sel -t -m //fsid -v . -n
../qa/workunits/ceph-helpers.sh:314: run_mon: get_config mon a mon_host
../qa/workunits/ceph-helpers.sh:653: get_config: local daemon=mon
../qa/workunits/ceph-helpers.sh:654: get_config: local id=a
../qa/workunits/ceph-helpers.sh:655: get_config: local config=mon_host
../qa/workunits/ceph-helpers.sh:657: get_config: CEPH_ARGS=
../qa/workunits/ceph-helpers.sh:657: get_config: ceph --format xml daemon testdir/osd-crush/ceph-
mon.a.asok config get mon_host
../qa/workunits/ceph-helpers.sh:660: get_config: xmlstarlet sel -t -m //mon_host -v . -n
```

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.../qa/workunits/ceph-helpers.sh:319: run_mon: get_config mon a mon_initial_members
.../qa/workunits/ceph-helpers.sh:653: get_config: local daemon=mon
.../qa/workunits/ceph-helpers.sh:654: get_config: local id=a
.../qa/workunits/ceph-helpers.sh:655: get_config: local config=mon_initial_members
.../qa/workunits/ceph-helpers.sh:657: get_config: CEPH_ARGS=
.../qa/workunits/ceph-helpers.sh:657: get_config: ceph --format xml daemon testdir/osd-crush/ceph-
mon.a.asok config get mon_initial_members
.../qa/workunits/ceph-helpers.sh:660: get_config: xmlstarlet sel -t -m //mon_initial_members -v .
-n
../qa/workunits/ceph-helpers.sh:319: run_mon: test -z ''
../qa/workunits/ceph-helpers.sh:320: run_mon: ceph osd pool delete rbd rbd --yes-i-really-really-m
ean-it
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
pool 'rbd' removed
../qa/workunits/ceph-helpers.sh:321: run_mon: ceph osd pool create rbd 4
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
pool 'rbd' created
./test/mon/osd-crush.sh:90: TEST_crush_rule_create_erasure: run_osd testdir/osd-crush 0
../qa/workunits/ceph-helpers.sh:397: run_osd: local dir=testdir/osd-crush
../qa/workunits/ceph-helpers.sh:398: run_osd: shift
../qa/workunits/ceph-helpers.sh:399: run_osd: local id=0
../qa/workunits/ceph-helpers.sh:400: run_osd: shift
../qa/workunits/ceph-helpers.sh:401: run_osd: local osd_data=testdir/osd-crush/0
../qa/workunits/ceph-helpers.sh:403: run_osd: local ceph_disk_args
../qa/workunits/ceph-helpers.sh:404: run_osd: ceph_disk_args+=' --statedir=testdir/osd-crush'
../qa/workunits/ceph-helpers.sh:405: run_osd: ceph_disk_args+=' --sysconfdir=testdir/osd-crush'
../qa/workunits/ceph-helpers.sh:406: run_osd: ceph_disk_args+=' --prepend-to-path='
../qa/workunits/ceph-helpers.sh:408: run_osd: mkdir -p testdir/osd-crush/0
../qa/workunits/ceph-helpers.sh:409: run_osd: ceph-disk --statedir=testdir/osd-crush --sysconfdir=
testdir/osd-crush --prepend-to-path= prepare testdir/osd-crush/0
2015-07-21 11:08:12.563087 4060ef00 -1 warning: unable to create /var/run/ceph: (13) Permission de
nied
2015-07-21 11:08:12.578601 4060ef00 -1 warning: unable to create /var/run/ceph: (13) Permission de
nied
2015-07-21 11:08:12.594835 4060ef00 -1 warning: unable to create /var/run/ceph: (13) Permission de
nied
../qa/workunits/ceph-helpers.sh:412: run_osd: activate_osd testdir/osd-crush 0
../qa/workunits/ceph-helpers.sh:479: activate_osd: local dir=testdir/osd-crush
../qa/workunits/ceph-helpers.sh:480: activate_osd: shift
../qa/workunits/ceph-helpers.sh:481: activate_osd: local id=0
../qa/workunits/ceph-helpers.sh:482: activate_osd: shift
../qa/workunits/ceph-helpers.sh:483: activate_osd: local osd_data=testdir/osd-crush/0
../qa/workunits/ceph-helpers.sh:485: activate_osd: local ceph_disk_args
../qa/workunits/ceph-helpers.sh:486: activate_osd: ceph_disk_args+=' --statedir=testdir/osd-crush'
../qa/workunits/ceph-helpers.sh:487: activate_osd: ceph_disk_args+=' --sysconfdir=testdir/osd-crus
h'
../qa/workunits/ceph-helpers.sh:488: activate_osd: ceph_disk_args+=' --prepend-to-path='
../qa/workunits/ceph-helpers.sh:490: activate_osd: local 'ceph_args=--fsid=330fc7c7-ceb9-41e5-8033
-c0554ec321b4 --auth-supported=none --mon-host=127.0.0.1:7104 '
../qa/workunits/ceph-helpers.sh:491: activate_osd: ceph_args+=' --osd-backfill-full-ratio=.99'
../qa/workunits/ceph-helpers.sh:492: activate_osd: ceph_args+=' --osd-failsafe-full-ratio=.99'
../qa/workunits/ceph-helpers.sh:493: activate_osd: ceph_args+=' --osd-journal-size=100'
../qa/workunits/ceph-helpers.sh:494: activate_osd: ceph_args+=' --osd-data=testdir/osd-crush/0'
../qa/workunits/ceph-helpers.sh:495: activate_osd: ceph_args+=' --chdir='
../qa/workunits/ceph-helpers.sh:496: activate_osd: ceph_args+=' --osd-pool-default-erasure-code-di
rectory=.libs'
../qa/workunits/ceph-helpers.sh:497: activate_osd: ceph_args+=' --osd-class-dir=.libs'
../qa/workunits/ceph-helpers.sh:498: activate_osd: ceph_args+=' --run-dir=testdir/osd-crush'
../qa/workunits/ceph-helpers.sh:499: activate_osd: ceph_args+=' --debug-osd=20'
../qa/workunits/ceph-helpers.sh:500: activate_osd: ceph_args+=' --log-file=testdir/osd-crush/$name
.log'
../qa/workunits/ceph-helpers.sh:501: activate_osd: ceph_args+=' --pid-file=testdir/osd-crush/$name
.pid'
../qa/workunits/ceph-helpers.sh:502: activate_osd: ceph_args+=' '
../qa/workunits/ceph-helpers.sh:503: activate_osd: ceph_args+=
../qa/workunits/ceph-helpers.sh:504: activate_osd: mkdir -p testdir/osd-crush/0
../qa/workunits/ceph-helpers.sh:505: activate_osd: CEPH_ARGS='--fsid=330fc7c7-ceb9-41e5-8033-c0554

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ec321b4 --auth-supported=none --mon-host=127.0.0.1:7104 --osd-backfill-full-ratio=.99 --osd-failsafe-full-ratio=.99 --osd-journal-size=100 --osd-data=testdir/osd-crush/0 --chdir= --osd-pool-default-erasure-code-directory=.libs --osd-class-dir=.libs --run-dir=testdir/osd-crush --debug-osd=20 --log-file=testdir/osd-crush/$name.log --pid-file=testdir/osd-crush/$name.pid '
./qa/workunits/ceph-helpers.sh:505: activate_osd: ceph-disk --statedir=testdir/osd-crush --sysconfdir=testdir/osd-crush --prepend-to-path= activate --mark-init=none testdir/osd-crush/0
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
got monmap epoch 1
2015-07-21 11:08:13.430236 4060ef00 -1 journal FileJournal::_open: disabling aio for non-block journal. Use journal_force_aio to force use of aio anyway
2015-07-21 11:08:13.468715 4060ef00 -1 journal FileJournal::_open: disabling aio for non-block journal. Use journal_force_aio to force use of aio anyway
2015-07-21 11:08:13.469721 4060ef00 -1 filestore(testdir/osd-crush/0) could not find -1/23c2fcde/osd_superblock/0 in index: (2) No such file or directory
2015-07-21 11:08:13.495371 4060ef00 -1 created object store testdir/osd-crush/0 journal testdir/osd-crush/0/journal for osd.0 fsid 330fc7c7-ceb9-41e5-8033-c0554ec321b4
2015-07-21 11:08:13.495511 4060ef00 -1 auth: error reading file: testdir/osd-crush/0/keyring: can't open testdir/osd-crush/0/keyring: (2) No such file or directory
2015-07-21 11:08:13.495684 4060ef00 -1 created new key in keyring testdir/osd-crush/0/keyring
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
added key for osd.0
starting osd.0 at :/0 osd_data testdir/osd-crush/0 testdir/osd-crush/0/journal
.../qa/workunits/ceph-helpers.sh:510: activate_osd: cat testdir/osd-crush/0/whoami
./qa/workunits/ceph-helpers.sh:510: activate_osd: '[' 0 = 0 ']'
./qa/workunits/ceph-helpers.sh:512: activate_osd: ceph osd crush create-or-move 0 1 root=default host=localhost
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
create-or-move updating item name 'osd.0' weight 1 at location {host=localhost,root=default} to crush map
./qa/workunits/ceph-helpers.sh:514: activate_osd: wait_for_osd up 0
./qa/workunits/ceph-helpers.sh:550: wait_for_osd: local state=up
./qa/workunits/ceph-helpers.sh:551: wait_for_osd: local id=0
./qa/workunits/ceph-helpers.sh:553: wait_for_osd: status=1
./qa/workunits/ceph-helpers.sh:554: wait_for_osd: (( i=0 ))
./qa/workunits/ceph-helpers.sh:554: wait_for_osd: (( i < 120 ))
./qa/workunits/ceph-helpers.sh:555: wait_for_osd: grep 'osd.0 up'
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
osd.0 up in weight 1 up_from 5 up_thru 6 down_at 0 last_clean_interval [0,0) 127.0.0.1:6800/12155 127.0.0.1:6801/12155 127.0.0.1:6802/12155 127.0.0.1:6803/12155 exists,up 0e2503af-b6b7-4cb8-8f70-3ec79d0172ca
./qa/workunits/ceph-helpers.sh:558: wait_for_osd: status=0
./qa/workunits/ceph-helpers.sh:559: wait_for_osd: break
./qa/workunits/ceph-helpers.sh:562: wait_for_osd: return 0
./test/mon/osd-crush.sh:92: TEST_crush_rule_create_erasure: local ruleset=ruleset3
./test/mon/osd-crush.sh:96: TEST_crush_rule_create_erasure: ./ceph osd crush rule create-erasure ruleset3
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
created ruleset ruleset3 at 1
./test/mon/osd-crush.sh:97: TEST_crush_rule_create_erasure: ./ceph osd crush rule create-erasure ruleset3
./test/mon/osd-crush.sh:98: TEST_crush_rule_create_erasure: grep 'ruleset3 already exists' rule ruleset3 already exists
./test/mon/osd-crush.sh:99: TEST_crush_rule_create_erasure: ./ceph --format xml osd crush rule dump ruleset3
./test/mon/osd-crush.sh:100: TEST_crush_rule_create_erasure: egrep 'take[^\<]+default'
./test/mon/osd-crush.sh:101: TEST_crush_rule_create_erasure: grep 'chooseleaf_indep0host'
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
1ruleset31333set_chooseleaf_tries5set_choose_tries100take-1defaultchooseleaf_indep0hostemit
./test/mon/osd-crush.sh:102: TEST_crush_rule_create_erasure: ./ceph osd crush rule rm ruleset3
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
./test/mon/osd-crush.sh:103: TEST_crush_rule_create_erasure: ./ceph osd crush rule ls
./test/mon/osd-crush.sh:103: TEST_crush_rule_create_erasure: grep ruleset3
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
./test/mon/osd-crush.sh:107: TEST_crush_rule_create_erasure: ./ceph osd crush rule create-erasure ruleset3 default
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***

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created ruleset ruleset3 at 1
./test/mon/osd-crush.sh:108: TEST_crush_rule_create_erasure: ./ceph osd crush rule ls
./test/mon/osd-crush.sh:108: TEST_crush_rule_create_erasure: grep ruleset3
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
"ruleset3"
./test/mon/osd-crush.sh:109: TEST_crush_rule_create_erasure: ./ceph osd crush rule rm ruleset3
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
./test/mon/osd-crush.sh:110: TEST_crush_rule_create_erasure: ./ceph osd crush rule ls
./test/mon/osd-crush.sh:110: TEST_crush_rule_create_erasure: grep ruleset3
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
./test/mon/osd-crush.sh:114: TEST_crush_rule_create_erasure: ./ceph osd erasure-code-profile rm de
fault
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
./test/mon/osd-crush.sh:115: TEST_crush_rule_create_erasure: ./ceph osd erasure-code-profile ls
./test/mon/osd-crush.sh:115: TEST_crush_rule_create_erasure: grep default
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
./test/mon/osd-crush.sh:116: TEST_crush_rule_create_erasure: ./ceph osd crush rule create-erasure
ruleset3
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
created ruleset ruleset3 at 1
./test/mon/osd-crush.sh:117: TEST_crush_rule_create_erasure: CEPH_ARGS=
./test/mon/osd-crush.sh:117: TEST_crush_rule_create_erasure: ./ceph --admin-daemon testdir/osd-cru
sh/ceph-mon.a.asok log flush
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
{}
./test/mon/osd-crush.sh:118: TEST_crush_rule_create_erasure: grep 'profile set default' testdir/os
d-crush/mon.a.log
2015-07-21 11:08:17.917500 41ffab40 20 mon.a@0(leader).osd e12 erasure code profile set default={d
irectory=.libs,jerasure-per-chunk-alignment=false,k=2,m=1,plugin=jerasure,ruleset-failure-domain=h
ost,ruleset-root=default,technique=reed_sol_van,w=8}
./test/mon/osd-crush.sh:119: TEST_crush_rule_create_erasure: ./ceph osd erasure-code-profile ls
./test/mon/osd-crush.sh:119: TEST_crush_rule_create_erasure: grep default
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
default
./test/mon/osd-crush.sh:120: TEST_crush_rule_create_erasure: ./ceph osd crush rule rm ruleset3
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
./test/mon/osd-crush.sh:121: TEST_crush_rule_create_erasure: ./ceph osd crush rule ls
./test/mon/osd-crush.sh:121: TEST_crush_rule_create_erasure: grep ruleset3
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
./test/mon/osd-crush.sh:126: TEST_crush_rule_create_erasure: ceph osd erasure-code-profile set myp
rofile plugin=lrc mapping=__DD__DD 'layers=[[ "cDD_cDD", "" ],[ "cDDD____", "" ],[ "____cDDD", ""
],]' 'ruleset-steps=[ [ "choose", "datacenter", 3 ], [ "chooseleaf", "osd", 0] ]'
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
./test/mon/osd-crush.sh:127: TEST_crush_rule_create_erasure: expect_failure testdir/osd-crush 'Err
or EINVAL' ./ceph osd pool create mypool 1 1 erasure myprofile
../qa/workunits/ceph-helpers.sh:1071: expect_failure: local dir=testdir/osd-crush
../qa/workunits/ceph-helpers.sh:1072: expect_failure: shift
../qa/workunits/ceph-helpers.sh:1073: expect_failure: local 'expected=Error EINVAL'
../qa/workunits/ceph-helpers.sh:1074: expect_failure: shift
../qa/workunits/ceph-helpers.sh:1075: expect_failure: local success
../qa/workunits/ceph-helpers.sh:1077: expect_failure: ./ceph osd pool create mypool 1 1 erasure my
profile
../qa/workunits/ceph-helpers.sh:1078: expect_failure: success=true
../qa/workunits/ceph-helpers.sh:1083: expect_failure: true
../qa/workunits/ceph-helpers.sh:1084: expect_failure: cat testdir/osd-crush/out
*** DEVELOPER MODE: setting PATH, PYTHONPATH and LD_LIBRARY_PATH ***
pool 'mypool' created
../qa/workunits/ceph-helpers.sh:1085: expect_failure: return 1
./test/mon/osd-crush.sh:128: TEST_crush_rule_create_erasure: return 1
./test/mon/osd-crush.sh:32: run: return 1

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Related issues:

Related to Ceph - Bug #11814: implicit erasure code crush ruleset is not vali...	Resolved	05/29/2015
Copied to Ceph - Backport #13410: TEST_crush_rule_create_erasure consistently...	Resolved	07/21/2015

Associated revisions

Revision e4790372 - 07/22/2015 08:42 AM - Loic Dachary

tests: robust test for the pool create crushmap test

The test that goes with f1e86be589803596e86acc964ac5c5c03b4038d8 to verify that a bugous crush ruleset will prevent the creation of a pool trying to use it was fragile. I depends on the implementation of the erasure code lrc plugin and turns out to not work on i386.

The test is modified to use a fake crushtool that always returns false and validate that it prevents the creation of a pool, which demonstrate it is used for crushmap validation prior to the pool creation.

<http://tracker.ceph.com/issues/12419> Fixes: #12419

Signed-off-by: Loic Dachary <ldachary@redhat.com>

Revision 698d75c1 - 10/08/2015 08:55 AM - Loic Dachary

tests: robust test for the pool create crushmap test

The test that goes with f1e86be589803596e86acc964ac5c5c03b4038d8 to verify that a bugous crush ruleset will prevent the creation of a pool trying to use it was fragile. I depends on the implementation of the erasure code lrc plugin and turns out to not work on i386.

The test is modified to use a fake crushtool that always returns false and validate that it prevents the creation of a pool, which demonstrate it is used for crushmap validation prior to the pool creation.

<http://tracker.ceph.com/issues/12419> Fixes: #12419

Signed-off-by: Loic Dachary <ldachary@redhat.com>
(cherry picked from commit e47903727b5d53f795014bf29b417d357f2bd65a)

History

#1 - 07/21/2015 02:57 PM - Loic Dachary

- Assignee set to Loic Dachary
- Priority changed from Normal to High

#2 - 07/22/2015 08:49 AM - Loic Dachary

- Status changed from New to Fix Under Review

#3 - 07/22/2015 08:51 AM - Loïc Dachary

<https://github.com/ceph/ceph/pull/5314>

#4 - 07/22/2015 11:27 AM - Kefu Chai

- Status changed from *Fix Under Review* to *Resolved*

#5 - 10/08/2015 08:52 AM - Loïc Dachary

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

- Backport set to *hammer*

#6 - 10/09/2015 07:18 AM - Loïc Dachary

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