

Ceph - Bug #15386

bluestore+spdk results in osd abort with _read_fsid unparsable uuid

04/05/2016 02:57 PM - Mark Nelson

Status: Can't reproduce	% Done: 0%
Priority: Normal	Spent time: 0.00 hour
Assignee:	
Category:	
Target version:	
Source: other	Reviewed:
Tags:	Affected Versions:
Backport:	ceph-qa-suite:
Regression: No	Pull request ID:
Severity: 3 - minor	Crash signature:
Description	
<pre>2016-04-05 10:21:24.278399 7f794acc2b00 -1 WARNING: the following dangerous and experimental features are enabled: bluestore,rocksdb 2016-04-05 10:21:24.278725 7f794acc2b00 -1 WARNING: the following dangerous and experimental features are enabled: bluestore,rocksdb 2016-04-05 10:21:24.278751 7f794acc2b00 0 ceph version 10.1.0 (96ae8bd25f31862dbd5302f304ebf8bf1166aba6), process ceph-osd, pid 81666 2016-04-05 10:21:24.278938 7f794acc2b00 -1 WARNING: experimental feature 'bluestore' is enabled Please be aware that this feature is experimental, untested, unsupported, and may result in data corruption, data loss, and/or irreparable damage to your cluster. Do not use feature with important data. 2016-04-05 10:21:24.279178 7f794acc2b00 -1 WARNING: the following dangerous and experimental features are enabled: bluestore,rocksdb 2016-04-05 10:21:24.366839 7f794acc2b00 -1 bluestore(/tmp/cbt/mnt/osd-device-0-data) _read_fsid unparsable uuid 2016-04-05 10:21:24.375218 7f7944357700 -1 *** Caught signal (Aborted) ** in thread 7f7944357700 ceph version 10.1.0 (96ae8bd25f31862dbd5302f304ebf8bf1166aba6) 1: (()+0x8f5a6a) [0x7f794b5d8a6a] 2: (()+0xf130) [0x7f7949111130] 3: (gsignal()+0x37) [0x7f7946fb15d7] 4: (abort()+0x148) [0x7f7946fb2cc8] 5: (rte_log()+0) [0x7f794a3ef46a] 6: (rte_eal_init()+0xc3b) [0x7f794a3f0cfb] 7: (()+0x77ad45) [0x7f794b45dd45] 8: (()+0x77b3ed) [0x7f794b45e3ed] 9: (()+0xb51e0) [0x7f794790a1e0] 10: (()+0x7df5) [0x7f7949109df5] 11: (clone()+0x6d) [0x7f79470721ad] NOTE: a copy of the executable, or `objdump -rds <executable>` is needed to interpret this. --- begin dump of recent events --- -20> 2016-04-05 10:21:24.271130 7f794acc2b00 5 asok(0x7f7955744000) register_command perfcounters_dump hook 0x7f7955694030 -19> 2016-04-05 10:21:24.271162 7f794acc2b00 5 asok(0x7f7955744000) register_command 1 hook 0x7f7955694030 -18> 2016-04-05 10:21:24.271166 7f794acc2b00 5 asok(0x7f7955744000) register_command perf dump hook 0x7f7955694030 -17> 2016-04-05 10:21:24.271173 7f794acc2b00 5 asok(0x7f7955744000) register_command perfcounters_schema hook 0x7f7955694030 -16> 2016-04-05 10:21:24.271181 7f794acc2b00 5 asok(0x7f7955744000) register_command 2 hook 0x</pre>	

```

7f7955694030
  -15> 2016-04-05 10:21:24.271184 7f794acc2b00 5 asok(0x7f7955744000) register_command perf sche
ma hook 0x7f7955694030
  -14> 2016-04-05 10:21:24.271187 7f794acc2b00 5 asok(0x7f7955744000) register_command perf rese
t hook 0x7f7955694030
  -13> 2016-04-05 10:21:24.271193 7f794acc2b00 5 asok(0x7f7955744000) register_command config sh
ow hook 0x7f7955694030
  -12> 2016-04-05 10:21:24.271199 7f794acc2b00 5 asok(0x7f7955744000) register_command config se
t hook 0x7f7955694030
  -11> 2016-04-05 10:21:24.271202 7f794acc2b00 5 asok(0x7f7955744000) register_command config ge
t hook 0x7f7955694030
  -10> 2016-04-05 10:21:24.271204 7f794acc2b00 5 asok(0x7f7955744000) register_command config di
ff hook 0x7f7955694030
  -9> 2016-04-05 10:21:24.271210 7f794acc2b00 5 asok(0x7f7955744000) register_command log flush
hook 0x7f7955694030
  -8> 2016-04-05 10:21:24.271217 7f794acc2b00 5 asok(0x7f7955744000) register_command log dump
hook 0x7f7955694030
  -7> 2016-04-05 10:21:24.271220 7f794acc2b00 5 asok(0x7f7955744000) register_command log reope
n hook 0x7f7955694030
  -6> 2016-04-05 10:21:24.278399 7f794acc2b00 -1 WARNING: the following dangerous and experiment
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  -5> 2016-04-05 10:21:24.278725 7f794acc2b00 -1 WARNING: the following dangerous and experiment
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  -4> 2016-04-05 10:21:24.278751 7f794acc2b00 0 ceph version 10.1.0 (96ae8bd25f31862dbd5302f304
ebf8bf1166aba6), process ceph-osd, pid 81666
  -3> 2016-04-05 10:21:24.278938 7f794acc2b00 -1 WARNING: experimental feature 'bluestore' is en
abled
Please be aware that this feature is experimental, untested,
unsupported, and may result in data corruption, data loss,
and/or irreparable damage to your cluster. Do not use
feature with important data.

  -2> 2016-04-05 10:21:24.279178 7f794acc2b00 -1 WARNING: the following dangerous and experiment
al features are enabled: bluestore,rocksdb
  -1> 2016-04-05 10:21:24.366839 7f794acc2b00 -1 bluestore(/tmp/cbt/mnt/osd-device-0-data) _read
_fsid unparsable uuid
  0> 2016-04-05 10:21:24.375218 7f7944357700 -1 *** Caught signal (Aborted) **
in thread 7f7944357700

ceph version 10.1.0 (96ae8bd25f31862dbd5302f304ebf8bf1166aba6)
1: (()+0x8f5a6a) [0x7f794b5d8a6a]
2: (()+0xf130) [0x7f7949111130]
3: (gsignal()+0x37) [0x7f7946fb15d7]
4: (abort()+0x148) [0x7f7946fb2cc8]
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7: (()+0x77ad45) [0x7f794b45dd45]
8: (()+0x77b3ed) [0x7f794b45e3ed]
9: (()+0xb51e0) [0x7f794790a1e0]
10: (()+0x7df5) [0x7f7949109df5]
11: (clone()+0x6d) [0x7f79470721ad]
NOTE: a copy of the executable, or `objdump -rDS <executable>` is needed to interpret this.

--- logging levels ---
  0/ 5 none
  0/ 0 lockdep
  0/ 0 context
  0/ 0 crush
  0/ 0 mds
  0/ 0 mds_balancer
  0/ 0 mds_locker
  0/ 0 mds_log
  0/ 0 mds_log_expire
  0/ 0 mds_migrator
  0/ 0 buffer
  0/ 0 timer
  0/ 0 filer

```

```

0/ 1 striper
0/ 0 objecter
0/ 0 rados
0/ 0 rbd
0/ 5 rbd_mirror
0/ 5 rbd_replay
0/ 0 journaler
0/ 0 objectcacher
0/ 0 client
0/ 0 osd
0/ 0 optracker
0/ 0 objclass
0/ 0 filestore
0/ 0 journal
0/ 0 ms
0/ 0 mon
0/ 0 monc
0/ 0 paxos
0/ 0 tp
0/ 0 auth
1/ 5 crypto
0/ 0 finisher
0/ 0 heartbeatmap
0/ 0 perfcounter
0/ 0 rgw
1/10 civetweb
1/ 5 javaclient
0/ 0 asok
0/ 0 throttle
0/ 0 refs
1/ 5 xio
1/ 5 compressor
1/ 5 newstore
0/ 0 bluestore
0/ 0 bluefs
0/ 0 bdev
1/ 5 kstore
4/ 5 rocksdb
4/ 5 leveldb
1/ 5 kinetic
1/ 5 fuse
-2/-2 (syslog threshold)
-1/-1 (stderr threshold)
max_recent      10000
max_new         1000
log_file /tmp/cbt/ceph/log/osd.0.log
--- end dump of recent events ---
2016-04-05 10:21:26.338429 7f57b6389b00 -1 WARNING: the following dangerous and experimental features are enabled: bluestore,rocksdb
2016-04-05 10:21:26.338750 7f57b6389b00 -1 WARNING: the following dangerous and experimental features are enabled: bluestore,rocksdb
2016-04-05 10:21:26.338776 7f57b6389b00 0 ceph version 10.1.0 (96ae8bd25f31862dbd5302f304ebf8bf1166aba6), process ceph-osd, pid 81785
2016-04-05 10:21:26.339147 7f57b6389b00 -1 WARNING: experimental feature 'bluestore' is enabled
Please be aware that this feature is experimental, untested, unsupported, and may result in data corruption, data loss, and/or irreparable damage to your cluster. Do not use feature with important data.

2016-04-05 10:21:26.339271 7f57b6389b00 -1 ** ERROR: unable to open OSD superblock on /tmp/cbt/mnt/osd-device-0-data: (2) No such file or directory

```

History

#1 - 04/06/2016 03:47 AM - Haomai Wang

hmm, I think the unparsed uuid problem isn't related to crash. Which tool are you used to deploy? From my view, it seemed dpdk libraries are

dynamic linked causing crash.

#2 - 04/12/2017 09:15 PM - Sage Weil

- Status changed from New to Can't reproduce

#3 - 10/15/2018 06:00 PM - Chris Holcombe

I was able to reproduce this locally on a virtual machine with lvm on ubuntu 18.04. It seems that LVM produces UUID's that aren't actually parseable uuid's.

```
lvdisplay
--- Logical volume ---
LV Path                /dev/ceph-c4ab42c6-3af5-4ce1-af42-2fc554fa4a93/osd-block-67bbb17f-2d55-47c3-ae69-646d3538505b
LV Name                osd-block-67bbb17f-2d55-47c3-ae69-646d3538505b
VG Name                ceph-c4ab42c6-3af5-4ce1-af42-2fc554fa4a93
LV UUID                clN8W5-WZTD-bcQc-cR75-TeoQ-nwII-HfP4am
LV Write Access        read/write
LV Creation host, time ceph1, 2018-09-17 23:33:30 +0000
LV Status              available
# open                 0
LV Size                1012.00 MiB
Current LE             253
Segments               1
Allocation              inherit
Read ahead sectors     0
Block device           253:0
```

The value for LV UUID isn't a valid UUID is the problem. It's unique and a string but it doesn't follow the UUID standard from what I can tell.

```
dpkg -l | grep lvm
ii liblvm2app2.2:amd64      2.02.176-4.1ubuntu3      amd64      LVM2 application lib
rary
ii liblvm2cmd2.02:amd64    2.02.176-4.1ubuntu3      amd64      LVM2 command library
ii lvm2                     2.02.176-4.1ubuntu3      amd64      Linux Logical Volume
Manager
```

Crash text:

```
23:33:30 [ERROR] ceph-osd cmd failed: . stderr: 2018-09-17 23:33:30.656226 7f422562be40 -1 bluestore(/var/lib/
ceph/osd/ceph-2) _read_fsid unparsable uuid
/build/ceph-roHqVA/ceph-12.2.4/src/os/bluestore/BlueFS.cc: In function 'void BlueFS::add_block_extent(unsigned
int, uint64_t, uint64_t)' thread 7f422562be40 time 2018-09-17 23:33:30.692767
/build/ceph-roHqVA/ceph-12.2.4/src/os/bluestore/BlueFS.cc: 172: FAILED assert (bdev[id]->get_size() >= offset +
length)
ceph version 12.2.4 (52085d5249a80c5f5121a76d6288429f35e4e77b) luminous (stable)
1: (ceph::__ceph_assert_fail(char const*, char const*, int, char const*)+0xf5) [0x55fbeb477a95]
2: (BlueFS::add_block_extent(unsigned int, unsigned long, unsigned long)+0x520) [0x55fbeb3f96d0]
3: (BlueStore::_open_db(bool)+0xc99) [0x55fbeb307519]
4: (BlueStore::mkfs()+0x5b4) [0x55fbeb33ce14]
5: (OSD::mkfs(CephContext*, ObjectStore*, std::__cxx11::basic_string<char, std::char_traits<char>, std::alloc
ator<char> > const&, uuid_d, int)+0x259) [0x55fbeae69]
6: (main()+0x10af) [0x55fbedda60f]
7: (__libc_start_main()+0xe7) [0x7f4222981b97]
8: (_start()+0x2a) [0x55fbeae64bca]
NOTE: a copy of the executable, or `objdump -rdS <executable>` is needed to interpret this.
2018-09-17 23:33:30.702789 7f422562be40 -1 /build/ceph-roHqVA/ceph-12.2.4/src/os/bluestore/BlueFS.cc: In funct
ion 'void BlueFS::add_block_extent(unsigned int, uint64_t, uint64_t)' thread 7f422562be40 time 2018-09-17 23:3
3:30.692767
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```

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

```
-12> 2018-09-17 23:33:30.656226 7f422562be40 -1 bluestore(/var/lib/ceph/osd/ceph-2) _read_fsid unparsable uid
```

```
0> 2018-09-17 23:33:30.702789 7f422562be40 -1 /build/ceph-roHqVA/ceph-12.2.4/src/os/bluestore/BlueFS.cc:
In function 'void BlueFS::add_block_extent(unsigned int, uint64_t, uint64_t)' thread 7f422562be40 time 2018-09-17 23:33:30.692767
/build/ceph-roHqVA/ceph-12.2.4/src/os/bluestore/BlueFS.cc: 172: FAILED assert(bdev[id]->get_size() >= offset + length)
```

```
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3: (BlueStore::_open_db(bool)+0xc99) [0x55fbeb307519]
4: (BlueStore::mkfs()+0x5b4) [0x55fbeb33ce14]
5: (OSD::mkfs(CephContext*, ObjectStore*, std::__cxx11::basic_string<char, std::char_traits<char>, std::allocator<char> > const&, uuid_d, int)+0x259) [0x55fbaeaeb69]
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8: (_start()+0x2a) [0x55fbaea64bca]
NOTE: a copy of the executable, or `objdump -rdS <executable>` is needed to interpret this.
```

```
*** Caught signal (Aborted) **
```

```
in thread 7f422562be40 thread_name:ceph-osd
ceph version 12.2.4 (52085d5249a80c5f5121a76d6288429f35e4e77b) luminous (stable)
1: (()+0x9ea3d8) [0x55fbeb4313d8]
2: (()+0x12890) [0x7f4223ada890]
3: (gsignal()+0xc7) [0x7f422299ee97]
4: (abort()+0x141) [0x7f42229a0801]
5: (ceph::__ceph_assert_fail(char const*, char const*, int, char const*)+0x27f) [0x55fbeb477c1f]
6: (BlueFS::add_block_extent(unsigned int, unsigned long, unsigned long)+0x520) [0x55fbeb3f96d0]
7: (BlueStore::_open_db(bool)+0xc99) [0x55fbeb307519]
8: (BlueStore::mkfs()+0x5b4) [0x55fbeb33ce14]
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10: (main()+0x10af) [0x55fbeadda60f]
11: (__libc_start_main()+0xe7) [0x7f4222981b97]
12: (_start()+0x2a) [0x55fbaea64bca]
```

```
2018-09-17 23:33:30.705392 7f422562be40 -1 *** Caught signal (Aborted) **
in thread 7f422562be40 thread_name:ceph-osd
```

```
ceph version 12.2.4 (52085d5249a80c5f5121a76d6288429f35e4e77b) luminous (stable)
1: (()+0x9ea3d8) [0x55fbeb4313d8]
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12: (_start()+0x2a) [0x55fbaea64bca]
NOTE: a copy of the executable, or `objdump -rdS <executable>` is needed to interpret this.
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```
0> 2018-09-17 23:33:30.705392 7f422562be40 -1 *** Caught signal (Aborted) **
in thread 7f422562be40 thread_name:ceph-osd
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5: (ceph::__ceph_assert_fail(char const*, char const*, int, char const*)+0x27f) [0x55fbeb477c1f]
6: (BlueFS::add_block_extent(unsigned int, unsigned long, unsigned long)+0x520) [0x55fbeb3f96d0]
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```

```
ator<char> > const&, uuid_d, int)+0x259) [0x55fbaeaeb69]
10: (main()+0x10af) [0x55fbaeada60f]
11: (__libc_start_main()+0xe7) [0x7f4222981b97]
12: (_start()+0x2a) [0x55fbae64bca]
NOTE: a copy of the executable, or `objdump -rds <executable>` is needed to interpret this.
```

#4 - 10/15/2018 07:04 PM - Chris Holcombe

Note this also occurs with ceph 12.2.7 on bionic. It was installed via cloud archive:

```
cat /etc/apt/sources.list.d/cloudarchive-rocky.list
deb http://ubuntu-cloud.archive.canonical.com/ubuntu bionic-updates/rocky main
```

#5 - 10/15/2018 07:19 PM - Chris Holcombe

Tracing through the source code it looks like I'm barking up the wrong tree. I believe this is saying the /var/lib/ceph/osd/ceph-{id}/fsid file is empty and that's the issue. Not sure why it's not getting created.

#6 - 02/18/2019 07:46 AM - Rainer Krienke

I am just trying to set up ceph 13.2.4-1bionic on a Ubuntu 18.04.2 system and creating an osd I also get the _read_fsid unparsable uuid error. I installed ceph from this repos: <https://download.ceph.com/debian-mimic>.

```
root@ceph1:~# ceph-volume lvm prepare --bluestore --data /dev/sdg
Running command: /usr/bin/ceph-authtool --gen-print-key
Running command: /usr/bin/ceph --cluster ceph --name client.bootstrap-osd --keyring /var/lib/ceph/bootstrap-osd/ceph.keyring i--osd-new
6787ea06-2d31-4ea9-ac8b-342b1f3fe1de
Running command: /sbin/vgcreate --force --yes ceph-d0f54030-c146-46e7-bcaa-1b330705a874 /dev/sdg
stderr: /dev/sda1: read failed after 0 of 4096 at 299999625216: Ungültiges oder unvollständiges Multi-Byte oder Wide-Zeichen
stderr: /dev/sda1: read failed after 0 of 4096 at 299999682560: Ungültiges oder unvollständiges Multi-Byte- oder Wide-Zeichen
stdout: Physical volume "/dev/sdg" successfully created.
stdout: Volume group "ceph-d0f54030-c146-46e7-bcaa-1b330705a874" successfully created
Running command: /sbin/lvcreate --yes -l 100%FREE -n osd-block-6787ea06-2d31-4ea9-ac8b-342b1f3fe1de
ceph-d0f54030-c146-46e7-bcaa-1b330705a874
stdout: Logical volume "osd-block-6787ea06-2d31-4ea9-ac8b-342b1f3fe1de" created.
Running command: /usr/bin/ceph-authtool --gen-print-key
Running command: /bin/mount -t tmpfs tmpfs /var/lib/ceph/osd/ceph-0
--> Absolute path not found for executable: restorecon
--> Ensure $PATH environment variable contains common executable locations
Running command: /bin/chown -h ceph:ceph
/dev/ceph-d0f54030-c146-46e7-bcaa-1b330705a874/osd-block-6787ea06-2d31-4ea9-ac8b-342b1f3fe1de
Running command: /bin/chown -R ceph:ceph /dev/dm-8
Running command: /bin/ln -s /dev/ceph-d0f54030-c146-46e7-bcaa-1b330705a874/osd-block-6787ea06-2d31-4ea9-ac8b-342b1f3fe1de
/var/lib/ceph/osd/ceph-0/block
Running command: /usr/bin/ceph --cluster ceph --name client.bootstrap-osd --keyring /var/lib/ceph/bootstrap-osd/ceph.keyring mon getmap -o
/var/lib/ceph/osd/ceph-0/activate.monmap
stderr: got monmap epoch 1
Running command: /usr/bin/ceph-authtool /var/lib/ceph/osd/ceph-0/keyring --create-keyring --name osd.0 --add-key
AQDTXmpc+qimCRAAGxN43r61iW4FDNMJs5lzQA==
stdout: creating /var/lib/ceph/osd/ceph-0/keyring
added entity osd.0 auth auth(auid = 18446744073709551615 key=AQDTXmpc+qimCRAAGxN43r61iW4FDNMJs5lzQA== with 0 caps)
Running command: /bin/chown -R ceph:ceph /var/lib/ceph/osd/ceph-0/keyring
Running command: /bin/chown -R ceph:ceph /var/lib/ceph/osd/ceph-0/
Running command: /usr/bin/ceph-osd --cluster ceph --osd-objectstore bluestore --mkfs -i 0 --monmap /var/lib/ceph/osd/ceph-0/activate.monmap
--keyfile --osd-data /var/lib/ceph/osd/ceph-0/ --osd-uuid 6787ea06-2d31-4ea9-ac8b-342b1f3fe1de --setuser ceph --setgroup ceph
stderr: 2019-02-18 08:29:25.544 7fdaa50ed240 -1 bluestore(/var/lib/ceph/osd/ceph-0/) read_fsid unparsable uuid
stderr: /build/ceph-13.2.4/src/os/bluestore/KernelDevice.cc: In function 'virtual int KernelDevice::read(uint64_t, uint64_t, ceph::bufferlist*, IOContext*,
bool)' thread 7fdaa50ed240 time 2019-02-18 08:29:25.592655
```

```
stderr: /build/ceph-13.2.4/src/os/bluestore/KernelDevice.cc: 821: FAILED assert((uint64_t)r == len)
stderr: ceph version 13.2.4 (b10be4d44915a4d78a8e06aa31919e74927b142e) mimic (stable)
stderr: 1: (ceph::_ceph_assert_fail(char const*, char const*, int, char const*)+0x102) [0x7fda9c50d3e2]
stderr: 2: (()+0x26d5a7) [0x7fda9c50d5a7]
```