

## cephsqlite - Bug #55304

### libcephsqlite: crash when compiled with gcc12 cause of regex treating '-' as a range operator

04/12/2022 10:15 PM - Ganesh Maharaj Mahalingam

<b>Status:</b>	Resolved	<b>% Done:</b>	0%
<b>Priority:</b>	Normal		
<b>Assignee:</b>			
<b>Category:</b>			
<b>Target version:</b>	v18.0.0		
<b>Source:</b>	Community (dev)	<b>Affected Versions:</b>	v17.0.0, v17.2.2
<b>Tags:</b>		<b>ceph-qa-suite:</b>	
<b>Backport:</b>	quincy,pacific	<b>Pull request ID:</b>	45858
<b>Regression:</b>	No	<b>Crash signature (v1):</b>	8ce65856856059d1f702c1e2a13a048ab 53ec669dbd74667bc5914069de394cc c378729b55506b4208e12e7c1fa4fc14e4 59efd2f9c2c9e59518f9e3675f5b12
<b>Severity:</b>	3 - minor	<b>Crash signature (v2):</b>	"80db7a543c3ba819098f773209d8fc512 5b0a56677cb2276c09e91549e066c00":h ttp://telemetry.front.sepia.ceph.com:4000 /d/jByk5HaMz/crash-spec-x-ray?orgId=1 &var-sig_v2=80db7a543c3ba819098f77 3209d8fc5125b0a56677cb2276c09e915 49e066c00
<b>Reviewed:</b>			

#### Description

When compiled with gcc12 (fedora36 & clearlinux) and using vstart.sh to test ceph, ceph-mgr would crash with the below error.

ceph version 17.0.0-11503-g4ba019b10bd (4ba019b10bd732774738ef26b4e32b11ca0fc3e7) quincy (dev)

1: /lib64/libc.so.6(0x42ac0) [0x7f72c5b91ac0]

2: /lib64/libc.so.6(+0x92e3c) [0x7f72c5be1e3c]

3: raise()

4: abort()

5: /lib64/libstdc++.so.6(0xa2b77) [0x7f72c5ef1b77]

6: /lib64/libstdc++.so.6(0xae45c) [0x7f72c5efd45c]

7: /lib64/libstdc++.so.6(0xae4c7) [0x7f72c5efd4c7]

8: /lib64/libstdc++.so.6(+0xae728) [0x7f72c5efd728]

9: (std::\_\_throw\_regex\_error(std::regex\_constants::error\_type, char const\*)+0x48) [0x55b6edfc60ac]

10: (bool std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_expression\_term<false,

false>(std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_BracketState&,

std::\_\_detail::\_BracketMatcher<std::\_\_cxx11::regex\_traits<char>, false, false>)+0x52d) [0x5

5b6ee01fddd]

11: (void std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_insert\_bracket\_matcher<false, false>(bool)+0xc6)

[0x55b6ee01ff36]

12: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_bracket\_expression()+0x45) [0x55b6ee022b05]

13: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_alternative()+0x118) [0x55b6ee023548]

14: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_disjunction()+0x2d) [0x55b6ee0236bd]

15: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_atom()+0x4d1) [0x55b6ee023041]

16: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_alternative()+0x118) [0x55b6ee023548]

17: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_alternative()+0x71) [0x55b6ee0234a1]

18: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_alternative()+0x71) [0x55b6ee0234a1]

19: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_alternative()+0x71) [0x55b6ee0234a1]

20: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_alternative()+0x71) [0x55b6ee0234a1]

21: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_disjunction()+0x2d) [0x55b6ee0236bd]

22: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_Compiler(char const\*, char const\*, std::locale const&,

std::regex\_constants::syntax\_option\_type)+0x256) [0x55b6ee023ac6]

23: /data/workspace/ceph/ceph/build/lib/libcephsqlite.so(+0x162ea) [0x7f72c770e2ea]

24: /data/workspace/ceph/ceph/build/lib/libcephsqlite.so(+0x1a6c7) [0x7f72c77126c7]

25: /lib64/libsqlite3.so.0(+0x2e6e5) [0x7f72c75d86e5]

```
26: /lib64/libsqlite3.so.0(+0xadeb7) [0x7f72c7657eb7]
27: /usr/lib64/python3.10/lib-dynload/_sqlite3.cpython-310-x86_64-linux-gnu.so(+0x946c) [0x7f72bb04846c]
28: /lib64/libpython3.10.so.1.0(+0x119383) [0x7f72c7375383]
29: _PyObject_Call()
30: /usr/lib64/python3.10/lib-dynload/_sqlite3.cpython-310-x86_64-linux-gnu.so(+0x92c3) [0x7f72bb0482c3]
31: /lib64/libpython3.10.so.1.0(+0x11d101) [0x7f72c7379101]
NOTE: a copy of the executable, or `objdump -rdS <executable>` is needed to interpret this
```

backtrace on the crash yielded this.

Thread 37 "devicehealth" hit Catchpoint 1 (exception thrown), 0x00007f0f9c9b36f1 in \_\_cxxabiv1::\_cxa\_throw (obj=0x5597c4783f20, tinfo=0x7f0f9cb2c360 <typeinfo for std::regex\_error>, dest=0x7f0f9c9dfff0 <std::regex\_error::~regex\_error()>) at ../../../../libstdc++-v3/libsupc

+/eh\_throw.cc:81

81 PROBE2 (throw, obj, tinfo);

(gdb) bt

```
#0 0x00007f0f9c9b36f1 in __cxxabiv1::_cxa_throw (obj=0x5597c4783f20, tinfo=0x7f0f9cb2c360 <typeinfo for std::regex_error>, dest=0x7f0f9c9dfff0 <std::regex_error::~regex_error()>) at ../../../../libstdc++-v3/libsupc++/eh_throw.cc:81
#1 0x00005597bc3b20ac in std::__throw_regex_error(_ecode=ecode@entry=std::regex_constants::_S_error_range, _what=what@entry=0x5597bc6b3d30 "Invalid start of '[x-x]' range in regular expression")
at /usr/include/c++/12/bits/regex_error.h:169
#2 0x00005597bc40bddd in std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_expression_term<false, false> (this=this@entry=0x7f0f775011d0, _last_char=..., __matcher=...) at /usr/include/c++/12/bits/regex_compiler.tcc:497
#3 0x00005597bc40bf36 in std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_insert_bracket_matcher<false, false> (this=this@entry=0x7f0f775011d0, _neg=<optimized out>) at /usr/include/c++/12/bits/regex_compiler.tcc:419
#4 0x00005597bc40eb05 in std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_bracket_expression (this=this@entry=0x7f0f775011d0) at /usr/include/c++/12/bits/regex_compiler.tcc:350
#5 0x00005597bc40ebff in std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_atom (this=this@entry=0x7f0f775011d0)
at /usr/include/c++/12/bits/regex_compiler.tcc:336
#6 0x00005597bc40f548 in std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_term (this=0x7f0f775011d0)
at /usr/include/c++/12/bits/regex_compiler.tcc:133
#7 std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative (this=0x7f0f775011d0)
at /usr/include/c++/12/bits/regex_compiler.tcc:115
#8 0x00005597bc40f6bd in std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_disjunction (this=this@entry=0x7f0f775011d0) at /usr/include/c++/12/bits/regex_compiler.tcc:91
#9 0x00005597bc40f041 in std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_atom (this=this@entry=0x7f0f775011d0)
at /usr/include/c++/12/bits/regex_compiler.tcc:329
#10 0x00005597bc40f548 in std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_term (this=0x7f0f775011d0)
at /usr/include/c++/12/bits/regex_compiler.tcc:133
#11 std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative (this=0x7f0f775011d0)
at /usr/include/c++/12/bits/regex_compiler.tcc:115
#12 0x00005597bc40f4a1 in std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative (this=0x7f0f775011d0)
at /usr/include/c++/12/bits/regex_compiler.tcc:118
#13 std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative (this=0x7f0f775011d0)
at /usr/include/c++/12/bits/regex_compiler.tcc:112
--Type <RET> for more, q to quit, c to continue without paging--
#14 0x00005597bc40f4a1 in std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative (this=0x7f0f775011d0) at /usr/include/c++/12/bits/regex_compiler.tcc:118
#15 std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative (this=0x7f0f775011d0) at /usr/include/c++/12/bits/regex_compiler.tcc:112
#16 0x00005597bc40f4a1 in std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative (this=0x7f0f775011d0) at /usr/include/c++/12/bits/regex_compiler.tcc:118
#17 std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative (this=0x7f0f775011d0) at /usr/include/c++/12/bits/regex_compiler.tcc:112
#18 0x00005597bc40f4a1 in std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative (this=0x7f0f775011d0) at /usr/include/c++/12/bits/regex_compiler.tcc:118
#19 std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative (this=0x7f0f775011d0) at /usr/include/c++/12/bits/regex_compiler.tcc:112
#20 0x00005597bc40f6bd in std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_disjunction (this=this@entry=0x7f0f775011d0) at /usr/include/c++/12/bits/regex_compiler.tcc:91
#21 0x00005597bc40fac6 in std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_Compiler (this=0x7f0f775011d0, _b=<optimized out>, _e=<optimized out>, _loc=..., __flags=<optimized out>) at /usr/include/c++/12/bits/regex_compiler.tcc:76
#22 0x00007f0f9e1c42ea in std::__cxx11::basic_regex<char, std::__cxx11::regex_traits<char> >::_M_compile(_f=std::regex_constants::_S_ECMAScript, _last=0x7f0f9e1f4118 "", __first=0x7f0f9e1f40e0 "\^/(\|*[[[:digit:]]+):([[alnum:]-.])*/([[alnum:]-.]+)$",
```

```
this=0x7f0f9e203e20 <parsepath(std::basic_string_view<char, std::char_traits<char> >, cephsqlite_fileloc*):re1> at /usr/include/c++/12/bits/regex.h:786
#23 std::__cxx11::basic_regex<char, std::__cxx11::regex_traits<char> >::basic_regex (_f=std::regex_constants::_S_ECMAScript, __p=0x7f0f9e1f40e0 "^/*(\\*[[digit:]]+)([[alnum:]-_]*)([[alnum:]-_]+)$",
this=0x7f0f9e203e20 <parsepath(std::basic_string_view<char, std::char_traits<char> >, cephsqlite_fileloc*):re1> at /usr/include/c++/12/bits/regex.h:453
#24 parsepath (fileloc=0x7f0f77501460, Python Exception <class 'gdb.error'>: value has been optimized out path=) at /data/workspace/ceph/ceph/src/libcephsqlite.cc:384
#25 0x00007f0f9e1c86c7 in FullPathname (vfs=0x5597c4879ad0, ipath=0x5597c48a394c "%.mgr:devicehealth/main.db", opathlen=4097, opath=0x5597c5232008 "") at /data/workspace/ceph/ceph/src/libcephsqlite.cc:669
```

I created a small test.cc file with contents as below.

```
#include <regex>

int main() {
static const std::regex re1 {"^/*(\\*[[digit:]]+)([[alnum:]-_]*)([[alnum:]-_]+)$"};
}
```

My test results are as such.

```
ganeshma@ganeshma-lab2 <> temp % g++-10 -o test test.cc && ./test
ganeshma@ganeshma-lab2 <> temp % g++ -o test test.cc && ./test
terminate called after throwing an instance of 'std::regex_error'
what(): Invalid start of '[x-x]' range in regular expression
Aborted (core dumped)
```

Related issues:	
Related to RADOS - Tasks #56952: Set mgr_pool to true for a handful of tests ...	In Progress
Duplicated by cephsqlite - Bug #55696: vstart hangs on when creating volume	Duplicate
Duplicated by RADOS - Bug #56700: MGR pod on CLBO on rook deployment	Duplicate
Duplicated by mgr - Bug #56745: unrecognized option ssl_server_port appears t...	Duplicate
Duplicated by mgr - Bug #56726: Ceph Mgr crash due to missing OSD service	Duplicate
Copied to cephsqlite - Backport #56701: pacific: libcephsqlite: crash when co...	Resolved
Copied to cephsqlite - Backport #56702: quincy: libcephsqlite: crash when com...	Resolved

## History

### #1 - 04/12/2022 10:43 PM - Ganesh Maharaj Mahalingam

Please let me know if <https://github.com/ceph/ceph/pull/45858> is the right fix for this issue.

### #2 - 05/11/2022 07:03 PM - Patrick Donnelly

- Status changed from New to Fix Under Review
- Target version set to v18.0.0
- Source set to Community (dev)
- Backport set to quincy,pacific
- Pull request ID set to 45858

### #3 - 05/24/2022 06:02 PM - Patrick Donnelly

- Duplicated by Bug #55696: vstart hangs on when creating volume added

### #4 - 07/25/2022 04:46 PM - Neha Ojha

- Status changed from Fix Under Review to Pending Backport

### #5 - 07/25/2022 04:50 PM - Backport Bot

- Copied to Backport #56701: pacific: libcephsqlite: crash when compiled with gcc12 cause of regex treating '-' as a range operator added

### #6 - 07/25/2022 04:50 PM - Backport Bot

- Copied to Backport #56702: quincy: libcephsqlite: crash when compiled with gcc12 cause of regex treating '-' as a range operator added

#7 - 07/25/2022 04:57 PM - Vikhyat Umrao

- Duplicated by Bug #56700: MGR pod on CLBO on rook deployment added

#8 - 07/25/2022 10:47 PM - Laura Flores

I am hitting a bunch of these failures on a recent teuthology run I scheduled. The ceph version is 17.2.0:

[http://pulpito.front.sepia.ceph.com/lflores-2022-07-25\\_21:46:45-fs:thrash:workloads-wip-telemetry-upgrade-distro-default-smithi/](http://pulpito.front.sepia.ceph.com/lflores-2022-07-25_21:46:45-fs:thrash:workloads-wip-telemetry-upgrade-distro-default-smithi/)

```
2022-07-25T22:16:04.368 INFO:tasks.ceph.mgr.x.smithi188.stderr:terminate called after throwing an instance of
'std::regex_error'
2022-07-25T22:16:04.368 INFO:tasks.ceph.mgr.x.smithi188.stderr: what(): Invalid start of range in bracket ex
pression.
2022-07-25T22:16:04.369 INFO:tasks.ceph.mgr.x.smithi188.stderr:*** Caught signal (Aborted) **
2022-07-25T22:16:04.369 INFO:tasks.ceph.mgr.x.smithi188.stderr: in thread 7f1922ff6700 thread_name:devicehealth
h
2022-07-25T22:16:04.370 INFO:tasks.ceph.mgr.x.smithi188.stderr: ceph version 17.2.0-661-ge6650b3c (e6650b3cd2b
2626a7724085062c110eb4de431b5) quincy (stable)
2022-07-25T22:16:04.371 INFO:tasks.ceph.mgr.x.smithi188.stderr: 1: /lib64/libpthread.so.0(+0x12ce0) [0x7f198c8
18ce0]
2022-07-25T22:16:04.372 INFO:tasks.ceph.mgr.x.smithi188.stderr: 2: gsignal()
2022-07-25T22:16:04.372 INFO:tasks.ceph.mgr.x.smithi188.stderr: 3: abort()
2022-07-25T22:16:04.372 INFO:tasks.ceph.mgr.x.smithi188.stderr: 4: /lib64/libstdc++.so.6(+0x9009b) [0x7f198bc1
709b]
2022-07-25T22:16:04.373 INFO:tasks.ceph.mgr.x.smithi188.stderr: 5: /lib64/libstdc++.so.6(+0x9653c) [0x7f198bc1
d53c]
2022-07-25T22:16:04.373 INFO:tasks.ceph.mgr.x.smithi188.stderr: 6: /lib64/libstdc++.so.6(+0x96597) [0x7f198bc1
d597]
2022-07-25T22:16:04.373 INFO:tasks.ceph.mgr.x.smithi188.stderr: 7: /lib64/libstdc++.so.6(+0x967f8) [0x7f198bc1
d7f8]
2022-07-25T22:16:04.373 INFO:tasks.ceph.mgr.x.smithi188.stderr: 8: (std::__throw_regex_error(std::regex_consta
nts::error_type, char const*)+0x4a) [0x55d1dc419f5a]
2022-07-25T22:16:04.374 INFO:tasks.ceph.mgr.x.smithi188.stderr: 9: (bool std::__detail::_Compiler<std::__cxx11
::regex_traits<char> >::_M_expression_term<false, false>(std::__detail::_Compiler<std::__cxx11::regex_traits<c
har> >::_BracketState&, std::__detail::_BracketMatcher<std::__cxx11::regex_traits<char>, false, false>&)+0x578
) [0x55d1dc425118]
2022-07-25T22:16:04.374 INFO:tasks.ceph.mgr.x.smithi188.stderr: 10: (void std::__detail::_Compiler<std::__cxx1
1::regex_traits<char> >::_M_insert_bracket_matcher<false, false>(bool)+0x146) [0x55d1dc426726]
2022-07-25T22:16:04.374 INFO:tasks.ceph.mgr.x.smithi188.stderr: 11: (std::__detail::_Compiler<std::__cxx11::re
gex_traits<char> >::_M_bracket_expression()+0x6b) [0x55d1dc42a6ab]
2022-07-25T22:16:04.374 INFO:tasks.ceph.mgr.x.smithi188.stderr: 12: (std::__detail::_Compiler<std::__cxx11::re
gex_traits<char> >::_M_atom()+0x6a) [0x55d1dc42a78a]
2022-07-25T22:16:04.375 INFO:tasks.ceph.mgr.x.smithi188.stderr: 13: (std::__detail::_Compiler<std::__cxx11::re
gex_traits<char> >::_M_alternative()+0xd0) [0x55d1dc42ad10]
2022-07-25T22:16:04.375 INFO:tasks.ceph.mgr.x.smithi188.stderr: 14: (std::__detail::_Compiler<std::__cxx11::re
gex_traits<char> >::_M_disjunction()+0x30) [0x55d1dc42ae60]
2022-07-25T22:16:04.375 INFO:tasks.ceph.mgr.x.smithi188.stderr: 15: (std::__detail::_Compiler<std::__cxx11::re
gex_traits<char> >::_M_atom()+0x338) [0x55d1dc42aa58]
2022-07-25T22:16:04.375 INFO:tasks.ceph.mgr.x.smithi188.stderr: 16: (std::__detail::_Compiler<std::__cxx11::re
gex_traits<char> >::_M_alternative()+0xd0) [0x55d1dc42ad10]
2022-07-25T22:16:04.376 INFO:tasks.ceph.mgr.x.smithi188.stderr: 17: (std::__detail::_Compiler<std::__cxx11::re
gex_traits<char> >::_M_alternative()+0x42) [0x55d1dc42ac82]
2022-07-25T22:16:04.376 INFO:tasks.ceph.mgr.x.smithi188.stderr: 18: (std::__detail::_Compiler<std::__cxx11::re
gex_traits<char> >::_M_alternative()+0x42) [0x55d1dc42ac82]
2022-07-25T22:16:04.376 INFO:tasks.ceph.mgr.x.smithi188.stderr: 19: (std::__detail::_Compiler<std::__cxx11::re
gex_traits<char> >::_M_alternative()+0x42) [0x55d1dc42ac82]
2022-07-25T22:16:04.377 INFO:tasks.ceph.mgr.x.smithi188.stderr: 20: (std::__detail::_Compiler<std::__cxx11::re
gex_traits<char> >::_M_alternative()+0x42) [0x55d1dc42ac82]
2022-07-25T22:16:04.377 INFO:tasks.ceph.mgr.x.smithi188.stderr: 21: (std::__detail::_Compiler<std::__cxx11::re
gex_traits<char> >::_M_disjunction()+0x30) [0x55d1dc42ae60]
2022-07-25T22:16:04.377 INFO:tasks.ceph.mgr.x.smithi188.stderr: 22: (std::__detail::_Compiler<std::__cxx11::re
gex_traits<char> >::_Compiler(char const*, char const*, std::locale const&, std::regex_constants::syntax_optio
n_type)+0x36b) [0x55d1dc42b43b]
2022-07-25T22:16:04.377 INFO:tasks.ceph.mgr.x.smithi188.stderr: 23: /lib64/libcephsqlite.so(+0x1b7fa) [0x7f198
f0047fa]
2022-07-25T22:16:04.378 INFO:tasks.ceph.mgr.x.smithi188.stderr: 24: /lib64/libcephsqlite.so(+0x244b6) [0x7f198
f00d4b6]
2022-07-25T22:16:04.378 INFO:tasks.ceph.mgr.x.smithi188.stderr: 25: /lib64/libsqlite3.so.0(+0x75f1c) [0x7f198e
d4af1c]
2022-07-25T22:16:04.378 INFO:tasks.ceph.mgr.x.smithi188.stderr: 26: /lib64/libsqlite3.so.0(+0xdd4c9) [0x7f198e
db24c9]
2022-07-25T22:16:04.378 INFO:tasks.ceph.mgr.x.smithi188.stderr: 27: pysqlite_connection_init()
2022-07-25T22:16:04.379 INFO:tasks.ceph.mgr.x.smithi188.stderr: 28: /lib64/libpython3.6m.so.1.0(+0x13afc6) [0x
7f198e8ccfc6]
```

```
2022-07-25T22:16:04.379 INFO:tasks.ceph.mgr.x.smithi188.stderr: 29: PyObject_Call()
2022-07-25T22:16:04.379 INFO:tasks.ceph.mgr.x.smithi188.stderr: 30: /usr/lib64/python3.6/lib-dynload/_sqlite3.cpython-36m-x86_64-linux-gnu.so(+0xa1f5) [0x7f197d6cd1f5]
2022-07-25T22:16:04.379 INFO:tasks.ceph.mgr.x.smithi188.stderr: 31: /lib64/libpython3.6m.so.1.0(+0x19d5f1) [0x7f198e92f5f1]
```

#### #9 - 07/25/2022 11:02 PM - Laura Flores

- Crash signature (v1) updated

#### #10 - 07/25/2022 11:03 PM - Laura Flores

- Crash signature (v1) updated

[http://telemetry.front.sepia.ceph.com:4000/d/jByk5HaMz/crash-spec-x-ray?var-sig\\_v2=80db7a543c3ba819098f773209d8fc5125b0a56677cb2276c09e91549e066c00&orgId=1](http://telemetry.front.sepia.ceph.com:4000/d/jByk5HaMz/crash-spec-x-ray?var-sig_v2=80db7a543c3ba819098f773209d8fc5125b0a56677cb2276c09e91549e066c00&orgId=1)

Telemetry has caught instances of this crash on 9 clusters, all version 17.2.2.

All crashes reported in Telemetry and in the teuthology occurrences I linked are happening on Centos 8 Stream. I don't see a direct correlation to gcc 12 since Centos 8 Stream runs gcc version 8.5.0.

The gibba cluster runs on Centos 8 Stream, and hasn't yet been upgraded to 17.2.2. So, we plan to upgrade the cluster soon and see if we can catch this failure.

#### #11 - 07/27/2022 06:02 PM - Andrew Davidoff

I am testing an upgrade from 17.2.1 to 17.2.2 and the first mgr upgraded crashes with what appears to be this same issue when it is promoted to active in preparation for the upgrade of the currently active 17.2.1 mgr.

```
[root@02 /]# cat /etc/os-release
NAME="CentOS Stream"
VERSION="8"
ID="centos"
ID_LIKE="rhel fedora"
VERSION_ID="8"
PLATFORM_ID="platform:el8"
PRETTY_NAME="CentOS Stream 8"
ANSI_COLOR="0;31"
CPE_NAME="cpe:/o:centos:centos:8"
HOME_URL="https://centos.org/"
BUG_REPORT_URL="https://bugzilla.redhat.com/"
REDHAT_SUPPORT_PRODUCT="Red Hat Enterprise Linux 8"
REDHAT_SUPPORT_PRODUCT_VERSION="CentOS Stream"
```

```
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: debug 2022-07-27T16:07:27.850+0000 7f07659fc700 0 [progress INFO root] Loaded [<progress.module.GhostEvent object at 0x7f0778329fd0>, <progress.module.GhostEvent object at 0x7f0778329f98>, <progress.module.GhostEvent object at 0x7f0778329f60>[3451/76301] module.GhostEvent object at 0x7f0778329f28>, <progress.module.GhostEvent object at 0x7f0778329ef0>, <progress.module.GhostEvent object at 0x7f0778329eb8>, <progress.module.GhostEvent object at 0x7f0778329e80>, <progress.module.GhostEvent object at 0x7f0778329e48>, <progress.module.GhostEvent object at 0x7f0778329e10>, <progress.module.GhostEvent object at 0x7f0778329dd8>, <progress.module.GhostEvent object at 0x7f0778329da0>, <progress.module.GhostEvent object at 0x7f0778329b208>, <progress.module.GhostEvent object at 0x7f0778329b518>] historic events
```

```
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: debug 2022-07-27T16:07:27.850+0000 7f076ca0a700 0 [rbd_
support DEBUG root] setting log level based on debug_mgr: INFO (2/5)
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: terminate called after throwing an instance of 'std::reg
ex_error'
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: debug 2022-07-27T16:07:27.854+0000 7f07659fc700 0 [prog
ress INFO root] Loaded OSDMap, ready.
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: what(): Invalid start of range in bracket expression.
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: *** Caught signal (Aborted) **
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: in thread 7f0768201700 thread_name:devicehealth
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: ceph version 17.2.2 (b6e46b8939c67a6cc754abb4d0ece3c891
8eccc3) quincy (stable)
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 1: /lib64/libpthread.so.0(+0x12ce0) [0x7f07aec8ce0]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 2: gsignal()
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 3: abort()
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 4: /lib64/libstdc++.so.6(+0x9009b) [0x7f07ae0d709b]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 5: /lib64/libstdc++.so.6(+0x9653c) [0x7f07ae0dd53c]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 6: /lib64/libstdc++.so.6(+0x96597) [0x7f07ae0dd597]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 7: /lib64/libstdc++.so.6(+0x967f8) [0x7f07ae0dd7f8]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 8: (std::__throw_regex_error(std::regex_constants::erro
r_type, char const*)+0x4a) [0x560cee88e000]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 9: (bool std::__detail::_Compiler<std::__cxx11::regex_t
raits<char> >::_M_expression_term<false, false>(std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_
BracketState&, std::__detail::_BracketMatcher<std::__cxx11::regex_traits<char>, false, fa
lse>&)+0x578) [0x560cee89a0a8]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 10: (void std::__detail::_Compiler<std::__cxx11::regex_
traits<char> >::_M_insert_bracket_matcher<false, false>(bool)+0x146) [0x560cee89b6b6]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 11: (std::__detail::_Compiler<std::__cxx11::regex_trait
s<char> >::_M_bracket_expression()+0x6b) [0x560cee89f63b]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 12: (std::__detail::_Compiler<std::__cxx11::regex_trait
s<char> >::_M_atom()+0x6a) [0x560cee89f71a]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 13: (std::__detail::_Compiler<std::__cxx11::regex_trait
s<char> >::_M_alternative()+0xd0) [0x560cee89fca0]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 14: (std::__detail::_Compiler<std::__cxx11::regex_trait
s<char> >::_M_disjunction()+0x30) [0x560cee89fdf0]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 15: (std::__detail::_Compiler<std::__cxx11::regex_trait
s<char> >::_M_atom()+0x338) [0x560cee89f9e8]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 16: (std::__detail::_Compiler<std::__cxx11::regex_trait
s<char> >::_M_alternative()+0xd0) [0x560cee89fca0]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 17: (std::__detail::_Compiler<std::__cxx11::regex_trait
s<char> >::_M_alternative()+0x42) [0x560cee89fc12]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 18: (std::__detail::_Compiler<std::__cxx11::regex_trait
s<char> >::_M_alternative()+0x42) [0x560cee89fc12]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 19: (std::__detail::_Compiler<std::__cxx11::regex_trait
s<char> >::_M_alternative()+0x42) [0x560cee89fc12]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 20: (std::__detail::_Compiler<std::__cxx11::regex_trait
s<char> >::_M_alternative()+0x42) [0x560cee89fc12]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 21: (std::__detail::_Compiler<std::__cxx11::regex_trait
s<char> >::_M_disjunction()+0x30) [0x560cee89fdf0]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 22: (std::__detail::_Compiler<std::__cxx11::regex_trait
s<char> >::_Compiler(char const*, char const*, std::locale const&, std::regex_constants::syntax_option_type)+0
x36b) [0x560cee8a03cb]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 23: /lib64/libcephsqlite.so(+0x1b7ca) [0x7f07b14c27ca]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 24: /lib64/libcephsqlite.so(+0x24486) [0x7f07b14cb486]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 25: /lib64/libsqlite3.so.0(+0x75f1c) [0x7f07b1208f1c]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 26: /lib64/libsqlite3.so.0(+0xdd4c9) [0x7f07b12704c9]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 27: pysqlite_connection_init()
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 28: /lib64/libpython3.6m.so.1.0(+0x13afc6) [0x7f07b0d8a
fc6]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 29: PyObject_Call()
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 30: /lib64/python3.6/lib-dynload/_sqlite3.cpython-36m-x
86_64-linux-gnu.so(+0x1f5) [0x7f079f9fb1f5]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 31: /lib64/libpython3.6m.so.1.0(+0x19d5f1) [0x7f07b0ded
5f1]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: debug 2022-07-27T16:07:27.858+0000 7f0768201700 -1 *** C
aught signal (Aborted) **
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: in thread 7f0768201700 thread_name:devicehealth
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: ceph version 17.2.2 (b6e46b8939c67a6cc754abb4d0ece3c891
8eccc3) quincy (stable)
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 1: /lib64/libpthread.so.0(+0x12ce0) [0x7f07aec8ce0]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 2: gsignal()
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 3: abort()
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 4: /lib64/libstdc++.so.6(+0x9009b) [0x7f07ae0d709b]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 5: /lib64/libstdc++.so.6(+0x9653c) [0x7f07ae0dd53c]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 6: /lib64/libstdc++.so.6(+0x96597) [0x7f07ae0dd597]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 7: /lib64/libstdc++.so.6(+0x967f8) [0x7f07ae0dd7f8]
```

```
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 8: (std::__throw_regex_error(std::regex_constants::error_type, char const*)+0x4a) [0x560cee88e000]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 9: (bool std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_expression_term<false, false>(std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_BracketState&, std::__detail::_BracketMatcher<std::__cxx11::regex_traits<char>, false, false>)+0x578) [0x560cee89a0a8]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 10: (void std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_insert_bracket_matcher<false, false>(bool)+0x146) [0x560cee89b6b6]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 11: (std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_bracket_expression()+0x6b) [0x560cee89f63b]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 12: (std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_atom()+0x6a) [0x560cee89f71a]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 13: (std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative()+0xd0) [0x560cee89fca0]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 14: (std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_disjunction()+0x30) [0x560cee89fdf0]
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Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 16: (std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative()+0xd0) [0x560cee89fca0]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 17: (std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative()+0x42) [0x560cee89fc12]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 18: (std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative()+0x42) [0x560cee89fc12]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 19: (std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative()+0x42) [0x560cee89fc12]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 20: (std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative()+0x42) [0x560cee89fc12]
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Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 22: (std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_Compiler(char const*, char const*, std::locale const&, std::regex_constants::syntax_option_type)+0x36b) [0x560cee8a03cb]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 23: /lib64/libcephsqlite.so(+0x1b7ca) [0x7f07b14c27ca]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 24: /lib64/libcephsqlite.so(+0x24486) [0x7f07b14cb486]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 25: /lib64/libsqlite3.so.0(+0x75f1c) [0x7f07b1208f1c]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 26: /lib64/libsqlite3.so.0(+0xdd4c9) [0x7f07b12704c9]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 27: pysqlite_connection_init()
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 28: /lib64/libpython3.6m.so.1.0(+0x13afc6) [0x7f07b0d8afc6]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 29: PyObject_Call()
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 30: /lib64/python3.6/lib-dynload/_sqlite3.cpython-36m-x86_64-linux-gnu.so(+0xa1f5) [0x7f079f9fb1f5]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: 31: /lib64/libpython3.6m.so.1.0(+0x19d5f1) [0x7f07b0ded5f1]
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: NOTE: a copy of the executable, or `objdump -rdS <executable>` is needed to interpret this.
Jul 27 16:07:27 02.ceph-kubernetes.dev bash[1365938]: --- begin dump of recent events ---
...
Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: debug          0> 2022-07-27T16:07:27.858+0000 7f0768201700
-1 *** Caught signal (Aborted) **

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: in thread 7f0768201700 thread_name:devicehealth

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: ceph version 17.2.2 (b6e46b8939c67a6cc754abb4d0ece3c8918eccc3) quincy (stable)

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 1: /lib64/libpthread.so.0(+0x12ce0) [0x7f07ae0d8ce0]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 2: gsignal()

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 3: abort()

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 4: /lib64/libstdc++.so.6(+0x9009b) [0x7f07ae0d709b]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 5: /lib64/libstdc++.so.6(+0x9653c) [0x7f07ae0dd53c]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 6: /lib64/libstdc++.so.6(+0x96597) [0x7f07ae0dd597]
```

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 7: /lib64/libstdc++.so.6(+0x967f8) [0x7f07ae0dd7f8]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 8: (std::\_\_throw\_regex\_error(std::regex\_constants::error\_type, char const\*)+0x4a) [0x560cee88eaea]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 9: (bool std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_expression\_term<false, false>(std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_BracketState&, std::\_\_detail::\_BracketMatcher<std::\_\_cxx11::regex\_traits<char>, false, false>)+0x578) [0x560cee89a0a8]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 10: (void std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_insert\_bracket\_matcher<false, false>(bool)+0x146) [0x560cee89b6b6]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 11: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_bracket\_expression()+0x6b) [0x560cee89f63b]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 12: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_atom()+0x6a) [0x560cee89f71a]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 13: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_alternative()+0xd0) [0x560cee89fca0]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 14: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_disjunction()+0x30) [0x560cee89fdf0]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 15: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_atom()+0x338) [0x560cee89f9e8]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 16: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_alternative()+0xd0) [0x560cee89fca0]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 17: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_alternative()+0x42) [0x560cee89fc12]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 18: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_alternative()+0x42) [0x560cee89fc12]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 19: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_alternative()+0x42) [0x560cee89fc12]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 20: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_alternative()+0x42) [0x560cee89fc12]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 21: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_M\_disjunction()+0x30) [0x560cee89fdf0]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 22: (std::\_\_detail::\_Compiler<std::\_\_cxx11::regex\_traits<char> >::\_Compiler(char const\*, char const\*, std::locale const&, std::regex\_constants::syntax\_option\_type)+0x36b) [0x560cee8a03cb]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 23: /lib64/libcephsqlite.so(+0x1b7ca) [0x7f07b14c27ca]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 24: /lib64/libcephsqlite.so(+0x24486) [0x7f07b14cb486]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 25: /lib64/libsqlite3.so.0(+0x75f1c) [0x7f07b1208f1c]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 26: /lib64/libsqlite3.so.0(+0xdd4c9) [0x7f07b12704c9]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 27: pysqlite\_connection\_init()

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 28: /lib64/libpython3.6m.so.1.0(+0x13afc6) [0x7f07b0d8afc6]

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 29: PyObject\_Call()

Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 30: /lib64/python3.6/lib-dynload/\_sqlite3.cpython-36m-x86\_64-linux-gnu.so(+0xa1f5) [0x7f079f9fb1f5]



```
Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: 31: /lib64/libpython3.6m.so.1.0(+0x19d5f1) [0x7f07b0ded5f1]
```

```
Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: NOTE: a copy of the executable, or `objdump -rdS <executable>` is needed to interpret this.
```

```
Jul 27 16:07:28 02.ceph-kubernetes.dev bash[1365938]: --- logging levels ---
```

## #12 - 07/27/2022 06:15 PM - Laura Flores

Hi @Andrew,

There is a thread about this issue on the ceph-users mailing list (subject is "[ceph-users] 17.2.2: all MGRs crashing in fresh cephadm install"). Here is some info about the issue in case you are interested in testing a fix:

This issue seems to be showing up in 17.2.2, details in <https://tracker.ceph.com/issues/55304>. We are currently in the process of validating the fix <https://github.com/ceph/ceph/pull/47270> and we'll try to expedite a quick fix.

In the meantime, we have builds/images of the dev version of the fix, in case you want to give it a try.

<https://shaman.ceph.com/builds/ceph/wip-quincy-libcephsqlite-fix/quay.ceph.io/ceph-ci/ceph:f516549e3e4815795ff0343ab71b3ebf567e5531>

## #13 - 07/27/2022 06:19 PM - Neha Ojha

Relevant thread in ceph-users <https://lists.ceph.io/hyperkitty/list/ceph-users@ceph.io/message/5MTRTW2XDHMMU3TFBAA7AWYWXI7XHQ2/>

## #14 - 07/28/2022 02:23 AM - Telemetry Bot

- Crash signature (v1) updated

- Crash signature (v2) updated

- Affected Versions v17.2.2 added

[http://telemetry.front.sepia.ceph.com:4000/d/jByk5HaMz/crash-spec-x-ray?orgId=1&var-sig\\_v2=80db7a543c3ba819098f773209d8fc5125b0a56677cb2276c09e91549e066c00](http://telemetry.front.sepia.ceph.com:4000/d/jByk5HaMz/crash-spec-x-ray?orgId=1&var-sig_v2=80db7a543c3ba819098f773209d8fc5125b0a56677cb2276c09e91549e066c00)

Sanitized backtrace:

```
std::__throw_regex_error(std::regex_constants::error_type, char const*)
bool std::__detail::_Compiler<std::regex_traits<char> >::_M_expression_term<false, false>(std::__detail::_Compiler<std::regex_traits<char> >::_BracketState&, std::__detail::_BracketMatcher<std::regex_traits<char>, false, false>&)
```

```
void std::__detail::_Compiler<std::regex_traits<char> >::_M_insert_bracket_matcher<false, false>(bool)
pysqlite_connection_init()
PyObject_Call()
```

#### Crash dump sample:

```
{
  "backtrace": [
    "/lib64/libpthread.so.0(+0x12ce0) [0x7f95c2b3bce0]",
    "gsignal()",
    "abort()",
    "/lib64/libstdc++.so.6(+0x9009b) [0x7f95c1f3a09b]",
    "/lib64/libstdc++.so.6(+0x9653c) [0x7f95c1f4053c]",
    "/lib64/libstdc++.so.6(+0x96597) [0x7f95c1f40597]",
    "/lib64/libstdc++.so.6(+0x967f8) [0x7f95c1f407f8]",
    "(std::__throw_regex_error(std::regex_constants::error_type, char const*)+0x4a) [0x5641b965deea]",
    "(bool std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_expression_term<false, false>(std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_BracketState&, std::__detail::_BracketMatcher<std::__cxx11::regex_traits<char>, false, false>&)+0x578) [0x5641b96690a8]",
    "(void std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_insert_bracket_matcher<false, false>(bool)+0x146) [0x5641b966a6b6]",
    "(std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_bracket_expression()+0x6b) [0x5641b966e63b]",
    "(std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_atom()+0x6a) [0x5641b966e71a]",
    "(std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative()+0xd0) [0x5641b966eca0]",
    ",
    "(std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_disjunction()+0x30) [0x5641b966edf0]",
    ",
    "(std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_atom()+0x338) [0x5641b966e9e8]",
    "(std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative()+0xd0) [0x5641b966eca0]",
    ",
    "(std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative()+0x42) [0x5641b966ec12]",
    ",
    "(std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative()+0x42) [0x5641b966ec12]",
    ",
    "(std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative()+0x42) [0x5641b966ec12]",
    ",
    "(std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_alternative()+0x42) [0x5641b966ec12]",
    ",
    "(std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_M_disjunction()+0x30) [0x5641b966edf0]",
    ",
    "(std::__detail::_Compiler<std::__cxx11::regex_traits<char> >::_Compiler(char const*, char const*, std::__locale const&, std::regex_constants::syntax_option_type)+0x36b) [0x5641b966f3cb]",
    "/lib64/libcephsqlite.so(+0x1b7ca) [0x7f95c53257ca]",
    "/lib64/libcephsqlite.so(+0x24486) [0x7f95c532e486]",
    "/lib64/libsqlite3.so.0(+0x75f1c) [0x7f95c506bffc]",
    "/lib64/libsqlite3.so.0(+0xdd4c9) [0x7f95c50d34c9]",
    "pysqlite_connection_init()",
    "/lib64/libpython3.6m.so.1.0(+0x13afc6) [0x7f95c4bedfc6]",
    "PyObject_Call()",
    "/usr/lib64/python3.6/lib-dynload/_sqlite3.cpython-36m-x86_64-linux-gnu.so(+0xa1f5) [0x7f95b385e1f5]",
    "/lib64/libpython3.6m.so.1.0(+0x19d5f1) [0x7f95c4c505f1]"
  ],
  "ceph_version": "17.2.2",
  "crash_id": "2022-07-25T23:51:19.181675Z_55d26f06-f310-4036-9b47-6019814ac322",
  "entity_name": "mgr.d3c45872f563d8b9ab59b23d8f89dbfe9fc3806e",
  "os_id": "centos",
  "os_name": "CentOS Stream",
  "os_version": "8",
  "os_version_id": "8",
  "process_name": "ceph-mgr",
  "stack_sig": "c378729b55506b4208e12e7c1fa4fc14e459efd2f9c2c9e59518f9e3675f5b12",
  "timestamp": "2022-07-25T23:51:19.181675Z",
  "utsname_machine": "x86_64",
  "utsname_release": "3.10.0-1160.36.2.el7.x86_64",
  "utsname_sysname": "Linux",
  "utsname_version": "#1 SMP Wed Jul 21 11:57:15 UTC 2021"
}
```

**#15 - 07/28/2022 06:53 PM - Laura Flores**

- Crash signature (v1) updated

We ran a teuthology reproducer on 17.2.1 and 17.2.2 respectively:

17.2.1

<https://shaman.ceph.com/builds/ceph/quincy/ec95624474b1871a821a912b8c3af68f8f8e7aa1/>  
[http://pulpito.front.sepia.ceph.com/lflores-2022-07-28\\_14:26:31-fs:thrash:workloads-quincy-distro-default-smithi/](http://pulpito.front.sepia.ceph.com/lflores-2022-07-28_14:26:31-fs:thrash:workloads-quincy-distro-default-smithi/)

17.2.2

<https://shaman.ceph.com/builds/ceph/quincy/b6e46b8939c67a6cc754abb4d0ece3c8918eccc3/>  
[http://pulpito.front.sepia.ceph.com/lflores-2022-07-28\\_14:29:53-fs:thrash:workloads-quincy-distro-default-smithi/](http://pulpito.front.sepia.ceph.com/lflores-2022-07-28_14:29:53-fs:thrash:workloads-quincy-distro-default-smithi/)

From the 17.2.1 build:

```
Processing files: libcephsqlite-17.2.1-0.el8.x86_64
Provides: libcephsqlite = 2:17.2.1-0.el8 libcephsqlite(x86-64) = 2:17.2.1-0.el8 libcephsqlite.so() (64bit)
```

From the 17.2.2 build:

```
Processing files: libcephsqlite-17.2.2-0.el8.x86_64
warning: Ignoring invalid regex ^%{_scl_prefix}/.*|%{_root_sysconfdir}/rpm/macros.gcc-toolset-11-config$
warning: Ignoring invalid regex ^%{_root_sysconfdir}/rpm/macros.gcc-toolset-11-config$
Provides: libcephsqlite = 2:17.2.2-0.el8 libcephsqlite(x86-64) = 2:17.2.2-0.el8 libcephsqlite.so() (64bit)
```

We found the issue to be that 17.2.1 was built using gcc 8.5.0-13, while 17.2.2 used 8.5.0-14.

[https://bugzilla.redhat.com/show\\_bug.cgi?id=2001788](https://bugzilla.redhat.com/show_bug.cgi?id=2001788) is the only difference.

See the changelog here: [https://centos.pkgs.org/8-stream/centos-appstream-x86\\_64/gcc-8.5.0-14.el8.x86\\_64.rpm.html](https://centos.pkgs.org/8-stream/centos-appstream-x86_64/gcc-8.5.0-14.el8.x86_64.rpm.html)

This bug was not caught on the RC because the RC build likely got built using gcc 8.5.0-13. The build is gone now though, so there is no way to tell for sure.

**#16 - 07/28/2022 07:12 PM - Laura Flores**

- Related to Tasks #56952: Set mgr\_pool to true for a handful of tests in the rados qa suite added

**#17 - 07/28/2022 10:14 PM - Laura Flores**

Associated BZ: [https://bugzilla.redhat.com/show\\_bug.cgi?id=2110797](https://bugzilla.redhat.com/show_bug.cgi?id=2110797)

**#18 - 07/29/2022 09:33 PM - Brian Woods**

I may also be seeing this issue, but on a completely fresh deployment somehow.

[https://tracker.ceph.com/issues/56745?next\\_issue\\_id=56971](https://tracker.ceph.com/issues/56745?next_issue_id=56971)

Going to zero everything again and do one more clean deployment just to be 100% sure.

**#19 - 07/29/2022 09:42 PM - Laura Flores**

Hi @Brian, looks like you are indeed hitting this same issue. This crash occurs on 17.2.2 clusters due to a change in gcc version (at build time). There will be a hotfix release available soon to address the issue. See <https://ceph.io/en/news/blog/2022/v17-2-3-quincy-released/> for more details.

**#20 - 07/29/2022 10:28 PM - Brian Woods**

@Laura, all good! Seems I had some crazy timing of some sort (maybe the cephadm on GIT hasn't been updated??). I had intended to deploy 17.2.3 from the beginning, but somehow got 17.2.2 but then deployed 17.2.3.... IDK How really. SO I am all good, and if that is the case, I am going to cancel my ticket as a duplicate.

**#21 - 07/30/2022 06:48 AM - Konstantin Shalygin**

- Duplicated by Bug #56745: unrecognized option ssl\_server\_port appears to cause failure of MGR added

**#22 - 08/02/2022 10:07 PM - Yuri Weinstein**

<https://github.com/ceph/ceph/pull/47271> merged

**#23 - 08/03/2022 03:54 PM - Andrew Davidoff**

Thanks @Laura! Apologies that I didn't see your updates until just now, otherwise I would have tested as you suggested.

**#24 - 08/08/2022 04:27 PM - Backport Bot**

- Tags set to backport\_processed

**#25 - 09/08/2022 06:07 PM - Radoslaw Zarzynski**

- Duplicated by Bug #56726: Ceph Mgr crash due to missing OSD service added

**#26 - 09/09/2022 04:29 PM - Konstantin Shalygin**

- Status changed from Pending Backport to Resolved

**#27 - 09/09/2022 04:29 PM - Konstantin Shalygin**

- Tags deleted (backport\_processed)