

rgw - Bug #39611

master/octopus FTBFS on s390x

05/07/2019 02:05 PM - Nathan Cutler

Status:	Resolved	% Done:	0%
Priority:	Normal	Spent time:	0.00 hour
Assignee:	Casey Bodley		
Category:			
Target version:			
Source:		Affected Versions:	
Tags:		ceph-qa-suite:	
Backport:	nautilus	Pull request ID:	28013
Regression:	No	Crash signature (v1):	
Severity:	3 - minor	Crash signature (v2):	
Reviewed:			

Description

tip of master 6455f96c49ceb49691f27f9d8604e9f5d366ed0f Fails To Build From Source (FTBFS) on s390x. Relevant log excerpt:

```
...
[ 1726s] [ 49%] Building CXX object src/rgw/CMakeFiles/rgw_common.dir/rgw_env.cc.o
[ 1727s] [ 49%] Building CXX object src/tools/rbd_mirror/CMakeFiles/rbd_mirror_internal.dir/Thread
s.cc.o
[ 1732s] [ 49%] Building CXX object src/mon/CMakeFiles/mon.dir/Elector.cc.o
[ 1736s] [ 49%] Building CXX object src/tools/rbd_mirror/CMakeFiles/rbd_mirror_internal.dir/Types.
cc.o
[ 1737s] [ 49%] Building CXX object src/tools/rbd_mirror/CMakeFiles/rbd_mirror_internal.dir/image_
deleter/RemoveRequest.cc.o
[ 1738s] [ 49%] Building CXX object src/rgw/CMakeFiles/rgw_common.dir/rgw_es_query.cc.o
[ 1743s] [ 49%] Building CXX object src/librbd/CMakeFiles/rbd_internal.dir/cache/PassthroughImageC
ache.cc.o
[ 1747s] [ 49%] Building CXX object src/tools/rbd_mirror/CMakeFiles/rbd_mirror_internal.dir/image_
deleter/SnapshotPurgeRequest.cc.o
[ 1752s] [ 49%] Building CXX object src/librbd/CMakeFiles/rbd_internal.dir/cache/WriteAroundObject
Dispatch.cc.o
[ 1752s] [ 49%] Building CXX object src/rgw/CMakeFiles/rgw_common.dir/rgw_formats.cc.o
[ 1757s] [ 50%] Building CXX object src/tools/rbd_mirror/CMakeFiles/rbd_mirror_internal.dir/image_
deleter/TrashMoveRequest.cc.o
[ 1758s] [ 50%] Building CXX object src/mon/CMakeFiles/mon.dir/HealthMonitor.cc.o
[ 1770s] [ 51%] Building CXX object src/librbd/CMakeFiles/rbd_internal.dir/deep_copy/ImageCopyRequ
est.cc.o
[ 1784s] [ 51%] Building CXX object src/tools/rbd_mirror/CMakeFiles/rbd_mirror_internal.dir/image_
deleter/TrashWatcher.cc.o
[ 1791s] [ 51%] Building CXX object src/rgw/CMakeFiles/rgw_common.dir/rgw_gc.cc.o
[ 1797s] [ 51%] Building CXX object src/librbd/CMakeFiles/rbd_internal.dir/deep_copy/MetadataCopyR
equest.cc.o
[ 1799s] [ 51%] Building CXX object src/tools/rbd_mirror/CMakeFiles/rbd_mirror_internal.dir/image_
map/LoadRequest.cc.o
[ 1807s] [ 51%] Building CXX object src/librbd/CMakeFiles/rbd_internal.dir/deep_copy/ObjectCopyReq
uest.cc.o
[ 1807s] [ 51%] Building CXX object src/mon/CMakeFiles/mon.dir/ConfigKeyService.cc.o
[ 1808s] [ 51%] Building CXX object src/tools/rbd_mirror/CMakeFiles/rbd_mirror_internal.dir/image_
map/Policy.cc.o
[ 1813s] [ 51%] Building CXX object src/rgw/CMakeFiles/rgw_common.dir/rgw_http_client.cc.o
[ 1822s] [ 51%] Building CXX object src/tools/rbd_mirror/CMakeFiles/rbd_mirror_internal.dir/image_
map/SimplePolicy.cc.o
[ 1830s] [ 51%] Building CXX object src/tools/rbd_mirror/CMakeFiles/rbd_mirror_internal.dir/image_
map/StateTransition.cc.o
[ 1830s] [ 51%] Building CXX object src/librbd/CMakeFiles/rbd_internal.dir/deep_copy/SetHeadReques
```

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t.cc.o
[ 1832s] [ 51%] Building CXX object src/rgw/CMakeFiles/rgw_common.dir/rgw_json_enc.cc.o
[ 1834s] [ 51%] Building CXX object src/tools/rbd_mirror/CMakeFiles/rbd_mirror_internal.dir/image_
map/UpdateRequest.cc.o
[ 1837s] [ 51%] Building CXX object src/mon/CMakeFiles/mon.dir/__/mds/MDSAuthCaps.cc.o
[ 1841s] [ 51%] Building CXX object src/librbd/CMakeFiles/rbd_internal.dir/deep_copy/SnapshotCopyR
equest.cc.o
[ 1843s] [ 51%] Building CXX object src/tools/rbd_mirror/CMakeFiles/rbd_mirror_internal.dir/image_
replayer/BootstrapRequest.cc.o
[ 1845s] /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rgw_json_enc.cc: In memb
er function 'virtual void rgw::keystone::AdminTokenRequestVer2::dump(ceph::Formatter*) const':
[ 1845s] /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rgw_json_enc.cc:1531:64:
error: no matching function for call to 'to_string(boost::string_ref)'
[ 1845s]         encode_json("username", to_string(conf.get_admin_user()), f);
[ 1845s]         ^
[ 1845s] In file included from /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rg
w_iam_policy.h:32,
[ 1845s]         from /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rg
w_common.h:28,
[ 1845s]         from /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rg
w_json_enc.cc:4:
[ 1845s] /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rgw_arn.h:70:20: note: c
andidate: 'std::__cxx11::string rgw::to_string(const rgw::ARN&)'
[ 1845s] inline std::string to_string(const ARN& a) {
[ 1845s]         ^~~~~~
[ 1845s] /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rgw_arn.h:70:20: note:
no known conversion for argument 1 from 'boost::string_ref' {aka 'boost::basic_string_ref<char, s
td::char_traits<char> >'} to 'const rgw::ARN&'
[ 1845s] /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rgw_arn.h:106:20: note:
candidate: 'std::__cxx11::string rgw::to_string(const rgw::ARNResource&)'
[ 1845s] inline std::string to_string(const ARNResource& r) {
[ 1845s]         ^~~~~~
[ 1845s] /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rgw_arn.h:106:20: note:
no known conversion for argument 1 from 'boost::string_ref' {aka 'boost::basic_string_ref<char,
std::char_traits<char> >'} to 'const rgw::ARNResource&'
[ 1845s] In file included from /usr/include/c++/8/string:52,
[ 1845s]         from /usr/include/c++/8/stdexcept:39,
[ 1845s]         from /usr/include/c++/8/array:39,
[ 1845s]         from /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rg
w_common.h:20,
[ 1845s]         from /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rg
w_json_enc.cc:4:
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6453:3: note: candidate: 'std::__cxx11::string std
::__cxx11::to_string(int)'
[ 1845s]     to_string(int __val)
[ 1845s]     ^~~~~~
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6453:3: note: no known conversion for argument 1
from 'boost::string_ref' {aka 'boost::basic_string_ref<char, std::char_traits<char> >'} to 'int'
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6458:3: note: candidate: 'std::__cxx11::string std
::__cxx11::to_string(unsigned int)'
[ 1845s]     to_string(unsigned __val)
[ 1845s]     ^~~~~~
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6458:3: note: no known conversion for argument 1
from 'boost::string_ref' {aka 'boost::basic_string_ref<char, std::char_traits<char> >'} to 'unsig
ned int'
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6464:3: note: candidate: 'std::__cxx11::string std
::__cxx11::to_string(long int)'
[ 1845s]     to_string(long __val)
[ 1845s]     ^~~~~~
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6464:3: note: no known conversion for argument 1
from 'boost::string_ref' {aka 'boost::basic_string_ref<char, std::char_traits<char> >'} to 'long
int'
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6469:3: note: candidate: 'std::__cxx11::string std
::__cxx11::to_string(long unsigned int)'
[ 1845s]     to_string(unsigned long __val)
[ 1845s]     ^~~~~~
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6469:3: note: no known conversion for argument 1

```

```

from 'boost::string_ref' {aka 'boost::basic_string_ref<char, std::char_traits<char> >'} to 'long
unsigned int'
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6475:3: note: candidate: 'std::__cxx11::string std
::__cxx11::to_string(long long int)'
[ 1845s]     to_string(long long __val)
[ 1845s]     ^~~~~~
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6475:3: note: no known conversion for argument 1
from 'boost::string_ref' {aka 'boost::basic_string_ref<char, std::char_traits<char> >'} to 'long
long int'
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6481:3: note: candidate: 'std::__cxx11::string std
::__cxx11::to_string(long long unsigned int)'
[ 1845s]     to_string(unsigned long long __val)
[ 1845s]     ^~~~~~
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6481:3: note: no known conversion for argument 1
from 'boost::string_ref' {aka 'boost::basic_string_ref<char, std::char_traits<char> >'} to 'long
long unsigned int'
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6487:3: note: candidate: 'std::__cxx11::string std
::__cxx11::to_string(float)'
[ 1845s]     to_string(float __val)
[ 1845s]     ^~~~~~
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6487:3: note: no known conversion for argument 1
from 'boost::string_ref' {aka 'boost::basic_string_ref<char, std::char_traits<char> >'} to 'float'
,
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6496:3: note: candidate: 'std::__cxx11::string std
::__cxx11::to_string(double)'
[ 1845s]     to_string(double __val)
[ 1845s]     ^~~~~~
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6496:3: note: no known conversion for argument 1
from 'boost::string_ref' {aka 'boost::basic_string_ref<char, std::char_traits<char> >'} to 'doubl
e'
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6505:3: note: candidate: 'std::__cxx11::string std
::__cxx11::to_string(long double)'
[ 1845s]     to_string(long double __val)
[ 1845s]     ^~~~~~
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6505:3: note: no known conversion for argument 1
from 'boost::string_ref' {aka 'boost::basic_string_ref<char, std::char_traits<char> >'} to 'long
double'
[ 1845s] /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rgw_json_enc.cc:1534:66:
error: no matching function for call to 'to_string(boost::string_ref)'
[ 1845s]         encode_json("tenantName", to_string(conf.get_admin_tenant()), f);
[ 1845s]                                         ^
[ 1845s] In file included from /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rg
w_iam_policy.h:32,
[ 1845s]                  from /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rg
w_common.h:28,
[ 1845s]                  from /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rg
w_json_enc.cc:4:
[ 1845s] /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rgw_arn.h:70:20: note: c
andidate: 'std::__cxx11::string rgw::to_string(const rgw::ARN&)'
[ 1845s] inline std::string to_string(const ARN& a) {
[ 1845s]             ^~~~~~
[ 1845s] /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rgw_arn.h:70:20: note:
no known conversion for argument 1 from 'boost::string_ref' {aka 'boost::basic_string_ref<char, s
td::char_traits<char> >'} to 'const rgw::ARN&'
[ 1845s] /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rgw_arn.h:106:20: note:
candidate: 'std::__cxx11::string rgw::to_string(const rgw::ARNResource&)'
[ 1845s] inline std::string to_string(const ARNResource& r) {
[ 1845s]             ^~~~~~
[ 1845s] /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rgw_arn.h:106:20: note:
no known conversion for argument 1 from 'boost::string_ref' {aka 'boost::basic_string_ref<char,
std::char_traits<char> >'} to 'const rgw::ARNResource&'
[ 1845s] In file included from /usr/include/c++/8/string:52,
[ 1845s]                  from /usr/include/c++/8/stdexcept:39,
[ 1845s]                  from /usr/include/c++/8/array:39,
[ 1845s]                  from /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rg
w_common.h:20,
[ 1845s]                  from /home/abuild/rpmbuild/BUILD/ceph-15.0.0-1046-g9a3fadb4c0/src/rgw/rg

```

```
w_json_enc.cc:4:
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6453:3: note: candidate: 'std::__cxx11::string std
::__cxx11::to_string(int) '
[ 1845s]     to_string(int __val)
[ 1845s]     ^~~~~~
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6453:3: note: no known conversion for argument 1
from 'boost::string_ref' {aka 'boost::basic_string_ref<char, std::char_traits<char> >'} to 'int'
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6458:3: note: candidate: 'std::__cxx11::string std
::__cxx11::to_string(unsigned int) '
[ 1845s]     to_string(unsigned __val)
[ 1845s]     ^~~~~~
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6458:3: note: no known conversion for argument 1
from 'boost::string_ref' {aka 'boost::basic_string_ref<char, std::char_traits<char> >'} to 'unsig
ned int'
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6464:3: note: candidate: 'std::__cxx11::string std
::__cxx11::to_string(long int) '
[ 1845s]     to_string(long __val)
[ 1845s]     ^~~~~~
[ 1845s] /usr/include/c++/8/bits/basic_string.h:6464:3: note: no known conversion for argument 1
from 'boost::string_ref' {aka 'boost::basic_string_ref<char, std::char_traits<char> >'} to 'long
int'
...
```

Related issues:

Copied to rgw - Backport #42838: nautilus: master/octopus FTBFS on s390x

Resolved

History

#1 - 05/07/2019 06:11 PM - Casey Bodley

- Status changed from New to Fix Under Review

- Pull request ID set to 28013

I see a recent commit 2bd353233112ead32181b94a2af1b04e3fa9e1de that changed some of these calls:

```
-     encode_json("password", to_string(conf.get_admin_password()), f);
+     encode_json("password", ::to_string(conf.get_admin_password()), f);
```

The intent is to call this overload defined above in rgw_json_enc.cc:

```
/* This utility function shouldn't conflict with the overload of std::to_string
 * provided by string_ref since Boost 1.54 as it's defined outside of the std
 * namespace. I hope we'll remove it soon - just after merging the Matt's PR
 * for bundled Boost. It would allow us to forget that CentOS 7 has Boost 1.53. */
static inline std::string to_string(const boost::string_ref& s)
{
    return std::string(s.data(), s.length());
}
```

Applying that same change to all to_string() calls in rgw::keystone::AdminTokenRequestVer2::dump and

#2 - 05/07/2019 06:12 PM - Casey Bodley

- *Project changed from Ceph to rgw*
- *Category deleted (build)*

#3 - 05/08/2019 03:12 PM - Nathan Cutler

- *Assignee set to Casey Bodley*

#4 - 05/09/2019 08:40 AM - Nathan Cutler

- *Status changed from Fix Under Review to Resolved*

#5 - 11/15/2019 04:45 PM - Nathan Cutler

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

#6 - 11/15/2019 04:45 PM - Nathan Cutler

- *Copied to Backport #42838: nautilus: master/octopus FTBFS on s390x added*

#7 - 11/19/2019 09:04 AM - Nathan Cutler

- *Status changed from Pending Backport to Resolved*

While running with --resolve-parent, the script "backport-create-issue" noticed that all backports of this issue are in status "Resolved" or "Rejected".