

RADOS - Bug #38827

valgrind: UninitCondition in

ceph::crypto::onwire::AES128GCM_OnWireRxHandler::authenticated_decrypt_update_final()

03/20/2019 11:21 AM - Kefu Chai

Status:	Resolved	% Done:	0%
Priority:	High	Spent time:	0.00 hour
Assignee:	Radoslaw Zarzynski		
Category:	Correctness/Safety		
Target version:			
Source:		Affected Versions:	
Tags:		ceph-qa-suite:	
Backport:	nautilus	Component(RADOS):	
Regression:	No	Pull request ID:	28305
Severity:	3 - minor	Crash signature (v1):	
Reviewed:		Crash signature (v2):	

Description

```
<error>
<unique>0x0</unique>
<tid>12</tid>
<threadname>msgr-worker-2</threadname>
<kind>UninitCondition</kind>
<what>Conditional jump or move depends on uninitialised value(s)</what>
<stack>
  <frame>
    <ip>0x10430C7C</ip>
    <obj>/usr/lib64/libcrypto.so.1.0.2k</obj>
  </frame>
  <frame>
    <ip>0x1042CBD6</ip>
    <obj>/usr/lib64/libcrypto.so.1.0.2k</obj>
    <fn>EVP_DecryptFinal_ex</fn>
  </frame>
  <frame>
    <ip>0x5368F14</ip>
    <obj>/usr/lib64/ceph/libceph-common.so.0</obj>
    <fn>ceph::crypto::onwire::AES128GCM_OnWireRxHandler::authenticated_decrypt_update_final(ceph
::buffer::v14_2_0::list&&, unsigned int)</fn>
    <dir>/usr/src/debug/ceph-14.2.0-165-gba7267b/src/msg/async</dir>
    <file>crypto_onwire.cc</file>
    <line>267</line>
  </frame>
  <frame>
    <ip>0x5358151</ip>
    <obj>/usr/lib64/ceph/libceph-common.so.0</obj>
    <fn>ProtocolV2::handle_read_frame_epilogue_main(std::unique_ptr<ceph::buffer::v14_2_0::pt
r_node, ceph::buffer::v14_2_0::ptr_node::disposer>&&, int)</fn>
    <dir>/usr/src/debug/ceph-14.2.0-165-gba7267b/src/msg/async</dir>
    <file>ProtocolV2.cc</file>
    <line>1264</line>
  </frame>
  ...

```

/a/kchai-2019-03-20_05:45:48-rados-wip-kefu-testing-2019-03-20-1120-distro-basic-smithi/3751697/remote/smithi039/log/valgrind/m

Related issues:

Related to RADOS - Bug #44362: osd: uninitialized memory in sendmsg

Can't reproduce

Copied to RADOS - Backport #41534: nautilus: valgrind: UninitCondition in cep...

Resolved**History****#1 - 03/20/2019 11:24 AM - Kefu Chai**the test branch contains <https://github.com/ceph/ceph/pull/27012>**#2 - 03/20/2019 11:40 AM - Radoslaw Zarzynski***- Status changed from New to In Progress**- Assignee set to Radoslaw Zarzynski***#3 - 05/09/2019 04:22 PM - J. Eric Ivancich***- Priority changed from Normal to High*

Is this being actively worked on?

How close are we to a fix on this?

I would like to make this a high priority bug, perhaps even urgent. This results in a lot of valgrind test failures on teuthology, thereby creating a lot of noise and adding to the workload of developers doing QA.

As an example, most of the failures in this teuthology run appear to be as a result of this bug:

http://pulpito.ceph.com/abhi-2019-05-07_13:40:09-rgw-wip-abhi-testing-2019-05-07-1047-distro-basic-smithi/

#4 - 05/16/2019 04:21 PM - Ali Maredia

The RGW verify suite has commented out the lines running valgrind on the mon.

<https://github.com/ceph/ceph/pull/28155>

Before this bug is resolved, that PR needs to be undone to ensure valgrind is being run on the mon in the rgw verify suite.

#5 - 05/28/2019 05:13 PM - Radoslaw Zarzynski

This bug looks like being duplicated by of <http://tracker.ceph.com/issues/39449> which has been addressed with a pair of interconnected PRs:

- <https://github.com/ceph/ceph/pull/27265> for ceph merged on Apr 2,
- <https://github.com/ceph/teuthology/pull/1274> for teuthology on Apr 30.

The problem with the run mentioned by Eric (e.g.

http://qa-proxy.ceph.com/teuthology/abhi-2019-05-07_13:40:09-rgw-wip-abhi-testing-2019-05-07-1047-distro-basic-smithi/3936972/remote/smithi031/og/valgrind/mon.b.log.gz) was that the bottom of the stack is:

```

<!-- the msgr stuff -->
<frame>
  <ip>0x5358BA4</ip>
  <obj>/usr/lib64/ceph/libceph-common.so.0</obj>
  <fn>EventCenter::process_events(unsigned int, std::chrono::duration<unsigned long, std::ratio<11,
100000000001>& > &gt;*)</fn>
</frame>
<frame>
  <ip>0x535E8D6</ip>

```

```
<obj>/usr/lib64/ceph/libceph-common.so.0</obj>
</frame>
<frame>
  <ip>0x55E4D5E</ip>
  <obj>/usr/lib64/ceph/libceph-common.so.0</obj>
</frame>
<frame>
  <ip>0x10756DD4</ip>
  <obj>/usr/lib64/libpthread-2.17.so</obj>
  <fn>start_thread</fn>
</frame>
<frame>
  <ip>0x118CBEAC</ip>
  <obj>/usr/lib64/libc-2.17.so</obj>
  <fn>clone</fn>
</frame>
```

while in the whitelist we expect:

```
### the msgd stuff
fun:_ZN11EventCenter14process_eventsEjPNSt6chrono8durationImSt5ratioILl1ELl1000000000EEEE
fun:operator()
fun:_ZNSt17_Function_handlerIFvvEZN12NetworkStack10add_threadEjEulvE_E9_M_invokeERKSt9_Any_data
fun:execute_native_thread_routine
fun:start_thread
fun:clone
```

It's a bit surprising as the unresolved symbols come from libceph-common. Anyway, I'm tuning the whitelist now.

#6 - 05/28/2019 05:43 PM - Radoslaw Zarzynski

Changeset: <https://github.com/ceph/ceph/compare/master...rzarzynski:wip-bug-38827>.

#7 - 05/28/2019 08:58 PM - Radoslaw Zarzynski

Scheduled a resurrected run for validation:

http://pulpito.front.sepia.ceph.com/rzarzynski-2019-05-28_20:56:45-rgw-wip-bug-38827-distro-basic-smithi/.

#8 - 05/29/2019 02:54 PM - Radoslaw Zarzynski

Second run (on slightly amended branch): http://pulpito.front.sepia.ceph.com/rzarzynski-2019-05-29_13:08:09-rgw-wip-bug-38827-distro-basic-smithi/

#9 - 05/29/2019 09:42 PM - Radoslaw Zarzynski

- Status changed from *In Progress* to *Fix Under Review*

<https://github.com/ceph/ceph/pull/28305>

#10 - 07/07/2019 02:48 AM - Kefu Chai

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

#11 - 08/26/2019 07:33 PM - Casey Bodley

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

- Backport set to *nautilus*

seeing this in the rgw suite for nautilus runs, so tagging for backport of <https://github.com/ceph/ceph/pull/28305>

#12 - 08/27/2019 08:49 AM - Nathan Cutler

- Copied to Backport #41534: *nautilus: valgrind: UninitCondition in ceph::crypto::onwire::AES128GCM_OnWireRxHandler::authenticated_decrypt_update_final() added*

#13 - 08/27/2019 09:48 AM - Nathan Cutler

- Pull request ID set to 28305

#14 - 10/04/2019 09:07 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".

#15 - 03/04/2020 08:32 PM - Radoslaw Zarzynski

- Related to Bug #44362: *osd: uninitialized memory in sendmsg added*