

Messengers - Bug #35987

msg: AsyncConnection keeps previous message buffers until new message comes in

09/14/2018 06:05 PM - Greg Farnum

Status: Resolved	Start date: 09/14/2018
Priority: High	Due date:
Assignee:	% Done: 0%
Category:	Estimated time: 0.00 hour
Target version:	Reviewed:
Source:	Affected Versions:
Tags:	ceph-qa-suite:
Backport: mimic, luminous	Pull request ID:
Regression: No	
Severity: 3 - minor	

Description

Starting in the thread at <http://lists.ceph.com/pipermail/ceph-users-ceph.com/2018-September/029780.html>, and continuing on at <http://lists.ceph.com/pipermail/ceph-users-ceph.com/2018-September/029783.html>

The key claims (which appear accurate):

We can see that the memory is allocated in AsyncConnection::process, precisely here:
<https://github.com/ceph/ceph/blob/master/src/msg/async/AsyncConnection.cc#L614>

>From my understanding - I have never read ceph code before, so my understanding might be flawed - this code is allocating a buffer to store the data contained in the message received from a ceph node and adding it to a buffers list `data_buf`.
Note that this list of buffers is per AsyncConnection, that's important.

Unfortunately, looking through the file shows that `data_buf` only gets cleared here:
<https://github.com/ceph/ceph/blob/master/src/msg/async/AsyncConnection.cc#L477>
when it transitions to the STATE_OPEN_MESSAGE_HEADER state, IIUC only occurs when it starts receiving a new CEPH_MSGR_TAG_MSG message.

Related issues:

Copied to Ceph - Backport #36126: luminous: msg: AsyncConnection keeps previo...	Resolved
Copied to Ceph - Backport #36127: mimic: msg: AsyncConnection keeps previous ...	Resolved

History

#1 - 09/14/2018 06:13 PM - Greg Farnum

- Subject changed from AsyncConnection keeps previous message buffers until new message comes in to msg: AsyncConnection keeps previous message buffers until new message comes in

- Category set to msgr

At first glance it looks we can just clear the local bufferlists we keep around once the Message is dispatched; we don't need our own copies. I'm putting together a simple patch.

#2 - 09/17/2018 05:03 PM - Greg Farnum

- Status changed from New to Need Test

<https://github.com/ceph/ceph/pull/24111>

#3 - 09/19/2018 01:50 PM - Greg Farnum

- Status changed from *Need Test* to *Pending Backport*
- Backport set to *mimic, luminous*

#4 - 09/19/2018 01:50 PM - Greg Farnum

- Assignee deleted (*Greg Farnum*)

#5 - 09/24/2018 11:00 AM - Nathan Cutler

- Copied to Backport #36126: *luminous: msg: AsyncConnection keeps previous message buffers until new message comes in added*

#6 - 09/24/2018 11:00 AM - Nathan Cutler

- Copied to Backport #36127: *mimic: msg: AsyncConnection keeps previous message buffers until new message comes in added*

#7 - 10/08/2018 10:01 AM - Nathan Cutler

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

#8 - 03/12/2019 11:12 PM - Greg Farnum

- Project changed from *Ceph* to *Messengers*
- Category deleted (*msg*)