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Hadoop YARN / YARN-6068

Log aggregation get failed when NM restart even with recovery

Details

Type: Bug Status: RESOLVED

Priority: Blocker Resolution: Fixed

Affects Version/s: None Fix Version/s: 2.8.0, 2.9.0, 3.0.0-alpha2

Component/s: None
Labels: None
Target Version/s: 2.8.0
Hadoop Flags: Reviewed

Description

The exception log is as following:

2017-01-05 19:16:36,352 INFO logaggregation.AppLogAggregatorImpl (AppLogAggregatorImpl.java:abortLogAggregation(527)) - Aborting log 2017-01-05 19:16:36,352 WARN logaggregation.AppLogAggregatorImpl (AppLogAggregatorImpl.java:run(399)) - Aggregation did not complete 2017-01-05 19:16:36,353 WARN application.ApplicationImpl (ApplicationImpl.java:handle(461)) - Can't handle this event at current state org.apache.hadoop.yarn.state.InvalidStateTransitonException: Invalid event: APPLICATION_LOG_HANDLING_FAILED at RUNNING at org.apache.hadoop.yarn.state.StateMachineFactory.doTransition(StateMachineFactory.java:305) at org.apache.hadoop.yarn.state.StateMachineFactory.internalStateMachineFactory.java:46) at org.apache.hadoop.yarn.server.nodemanager.containermanager.application.ApplicationImpl.handle(ApplicationImpl.java:459) at org.apache.hadoop.yarn.server.nodemanager.containermanager.application.ApplicationImpl.handle(ApplicationImpl.java:64) at org.apache.hadoop.yarn.server.nodemanager.containermanager.application.ApplicationImpl.handle(ApplicationImpl.java:64) at org.apache.hadoop.yarn.server.nodemanager.containermanager.ContainerManagerImpl\$ApplicationEventDispatcher.handle(Containe at org.apache.hadoop.yarn.server.nodemanager.containermanager.ContainerManagerImpl\$ApplicationEventDispatcher.handle(Containe at org.apache.hadoop.yarn.event.AsyncDispatcher.dispatcher.java:184) at org.apache.hadoop.yarn.event.AsyncDispatcher.dispatcher.java:184) at org.apache.hadoop.yarn.event.AsyncDispatcher.fl.run(AsyncDispatcher.java:110) at java.lang.Thread.run(Thread.java:745)

Attachments

YARN-6068.patch	2 kB	07/Jan/17 04:01
YARN-6068-v2.patch	1 kB	08/Jan/17 03:47

Activity

✓ O Junping Du added a comment - 07/Jan/17 03:21

In YARN-4325, we add sending out aggregation failure event to get rid of app leak in NM state store issues. However, we forget one case that log aggregation could abort rather than finish when NM get restart. In this case, we shouldn't send aggregation failure event.

Junping Du added a comment - 07/Jan/17 04:01

Upload a quick patch to fix it. Should be straightforward enough without UT.

O Hadoop QA added a comment - 07/Jan/17 04:41



Vote	Subsystem	Runtime	Comment
0	reexec	0m 14s	Docker mode activated.
+1	@author	0m 0s	The patch does not contain any @author tags.
-1	test4tests	0m 0s	The patch doesn't appear to include any new or modified tests. Please justify why no new tests are needed for this patch. Also please list what manual steps were performed to verify this patch.
+1	mvninstall	12m 44s	trunk passed

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compile	0m 27s	trunk passed
checkstyle	0m 16s	trunk passed
mvnsite	0m 26s	trunk passed
mvneclipse	0m 13s	trunk passed
findbugs	0m 40s	trunk passed
javadoc	0m 18s	trunk passed
mvninstall	0m 22s	the patch passed
compile	0m 23s	the patch passed
javac	0m 23s	the patch passed
checkstyle	0m 14s	hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager: The patch generated 3 new + 15 unchanged - 0 fixed = 18 total (was 15)
mvnsite	0m 23s	the patch passed
mvneclipse	0m 11s	the patch passed
whitespace	0m 0s	The patch has 1 line(s) that end in whitespace. Use git applywhitespace=fix < <patch_file>>. Refer https://git-scm.com/docs/git-apply</patch_file>
findbugs	0m 45s	the patch passed
javadoc	0m 14s	the patch passed
unit	12m 49s	hadoop-yarn-server-nodemanager in the patch passed.
asflicense	0m 16s	The patch does not generate ASF License warnings.
	32m 9s	
	checkstyle mvnsite mvneclipse findbugs javadoc mvninstall compile javac checkstyle mvnsite mvneclipse whitespace findbugs javadoc unit	checkstyle 0m 16s mvnsite 0m 26s mvneclipse 0m 13s findbugs 0m 40s javadoc 0m 18s mvninstall 0m 22s compile 0m 23s javac 0m 23s checkstyle 0m 14s mvnsite 0m 23s mvneclipse 0m 11s whitespace 0m 0s findbugs 0m 45s javadoc 0m 14s unit 12m 49s asflicense 0m 16s

Subsystem	Report/Notes
Docker	Image:yetus/hadoop:a9ad5d6
JIRA Issue	YARN-6068
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12846158/YARN-6068.patch
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit findbugs checkstyle
uname	Linux 35b9e0478b31 3.13.0-95-generic #142-Ubuntu SMP Fri Aug 12 17:00:09 UTC 2016 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/hadoop/patchprocess/precommit/personality/provided.sh
git revision	trunk / a59df15
Default Java	1.8.0_111
findbugs	v3.0.0
checkstyle	https://builds.apache.org/job/PreCommit-YARN-Build/14597/artifact/patchprocess/diff-checkstyle-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-nodemanager.txt
whitespace	https://builds.apache.org/job/PreCommit-YARN-Build/14597/artifact/patchprocess/whitespace-eol.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/14597/testReport/
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager U: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server-nodemanager
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/14597/console
Powered by	Apache Yetus 0.5.0-SNAPSHOT http://yetus.apache.org

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▼ ○ Varun Saxena added a comment - 07/Jan/17 05:49 - edited

Thanks junping_du for raising the issue. We infact saw exact same issue in our clusters yesterday night. The changes as such look fine to me.

In the patch, we have added an additional log ("Log aggregation abort for application due to NM restart"). I think this is not required. We already have a log printed when we call AppLogAggregatorImpl#abortLogAggregation. That should be good enough I guess.

✓ O Junping Du added a comment - 08/Jan/17 03:47

Thanks varun_saxena for review and comments! You are right that we already have info log for this case. v2 patch incorporate your comments.

▼ ○ Hadoop QA added a comment - 08/Jan/17 04:24

-1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	0m 16s	Docker mode activated.
+1	@author	0m 0s	The patch does not contain any @author tags.
-1	test4tests	0m 0s	The patch doesn't appear to include any new or modified tests. Please justify why no new tests are needed for this patch. Also please list what manual steps were performed to verify this patch.
+1	mvninstall	14m 18s	trunk passed
+1	compile	0m 32s	trunk passed
+1	checkstyle	0m 19s	trunk passed
+1	mvnsite	0m 31s	trunk passed
+1	mvneclipse	0m 15s	trunk passed
+1	findbugs	0m 47s	trunk passed
+1	javadoc	0m 20s	trunk passed
+1	mvninstall	0m 27s	the patch passed
+1	compile	0m 29s	the patch passed
+1	javac	0m 29s	the patch passed
+1	checkstyle	0m 16s	the patch passed
+1	mvnsite	0m 27s	the patch passed
+1	mvneclipse	0m 13s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	findbugs	0m 54s	the patch passed
+1	javadoc	0m 20s	the patch passed
+1	unit	13m 31s	hadoop-yarn-server-nodemanager in the patch passed.
+1	asflicense	0m 18s	The patch does not generate ASF License warnings.
		35m 37s	

Subsystem	Report/Notes
Docker	Image:yetus/hadoop:a9ad5d6
JIRA Issue	YARN-6068
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12846206/YARN-6068-v2.patch
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit findbugs checkstyle
uname	Linux 2c8e8c72e361 3.13.0-105-generic #152-Ubuntu SMP Fri Dec 2 15:37:11 UTC 2016 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/hadoop/patchprocess/precommit/personality/provided.sh
git revision	trunk / ac16400
Default Java	1.8.0_111

findbugs	v3.0.0
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/14602/testReport/
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager U: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server-nodemanager
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/14602/console
Powered by	Apache Yetus 0.5.0-SNAPSHOT http://yetus.apache.org

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Junping Du added a comment - 09/Jan/17 01:56

Mark this as blocker for 2.8 as the issue will break NM restart work preserving feature. Can someone take a quick look and commit as our RC is almost out of the door?

✓ O Varun Saxena added a comment - 09/Jan/17 02:51

+1 LGTM.

Will commit it shortly

💌 🔘 Varun Saxena added a comment - 09/Jan/17 03:34 - edited

Committed to trunk, branch-2 and branch-2.8 Thanks junping_du for raising the issue and fixing it.

O Hudson added a comment - 09/Jan/17 03:53

SUCCESS: Integrated in Jenkins build Hadoop-trunk-Commit #11088 (See https://builds.apache.org/job/Hadoop-trunk-Commit/11088/) YARN-6068. Log aggregation get failed when NM restart even with recovery (varunsaxena: rev f59e36b4ce71d3019ab91b136b6d7646316954e7)

• (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-servernodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/logaggregation/AppLogAggregatorImpl.java

▼ People

Assignee:

Junping Du

Reporter:

Junping Du

Votes:

O Vote for this issue

Watchers:

4 Start watching this issue

Dates

Created:

07/Jan/17 03:16

Updated:

25/Oct/19 20:26

Resolved:

09/Jan/17 03:34