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Hadoop YARN / YARN-5597 YARN Federation improvements / YARN-8893

[AMRMProxy] Fix thread leak in AMRMClientRelayer and UAM client

Details

Type:	Sub-task	Status:	**RESOLVED**
Priority:	Major	Resolution:	Fixed
Affects Version/s:	None	Fix Version/s:	2.10.0, 3.3.0
Component/s:	amrmproxy, federation		
Labels:	None		

Description

Fix thread leak in AMRMClientRelayer and UAM client used by FederationInterceptor, when destroying the interceptor pipeline in AMRMProxy.

Attachments

📄 YARN-8893.v1.patch		18 kB	16/Oct/18 21:11
📄 YARN-8893.v2.patch		18 kB	17/Oct/18 17:09

Activity

Hadoop QA added a comment - 16/Oct/18 22:58

❌ **-1 overall**

Vote	Subsystem	Runtime	Comment
0	reexec	0m 12s	Docker mode activated.
			Prechecks
+1	@author	0m 0s	The patch does not contain any @author tags.
+1	test4tests	0m 0s	The patch appears to include 5 new or modified test files.
			trunk Compile Tests
0	mvndep	3m 14s	Maven dependency ordering for branch
+1	mvninstall	23m 14s	trunk passed
+1	compile	2m 46s	trunk passed
+1	checkstyle	1m 3s	trunk passed
+1	mvnsite	1m 12s	trunk passed
+1	shadedclient	13m 43s	branch has no errors when building and testing our client artifacts.
+1	findbugs	2m 3s	trunk passed
+1	javadoc	0m 50s	trunk passed
			Patch Compile Tests
0	mvndep	0m 11s	Maven dependency ordering for patch
+1	mvninstall	1m 11s	the patch passed
+1	compile	2m 38s	the patch passed
+1	javac	2m 38s	the patch passed

-0	checkstyle	0m 57s	hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server: The patch generated 2 new + 12 unchanged - 0 fixed = 14 total (was 12)
+1	mvnsite	1m 6s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	12m 23s	patch has no errors when building and testing our client artifacts.
+1	findbugs	2m 8s	the patch passed
+1	javadoc	0m 47s	the patch passed
			Other Tests
+1	unit	2m 30s	hadoop-yarn-server-common in the patch passed.
-1	unit	18m 38s	hadoop-yarn-server-nodemanager in the patch failed.
+1	asflicense	0m 27s	The patch does not generate ASF License warnings.
		90m 23s	

Subsystem	Report/Notes
Docker	Client=17.05.0-ce Server=17.05.0-ce Image:yetus/hadoop:4b8c2b1
JIRA Issue	YARN-8893
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12944221/YARN-8893.v1.patch
Optional Tests	dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux dca1b583fe3a 4.4.0-134-generic #160~14.04.1-Ubuntu SMP Fri Aug 17 11:07:07 UTC 2018 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	trunk / 84e22a6
maven	version: Apache Maven 3.3.9
Default Java	1.8.0_181
findbugs	v3.1.0-RC1
checkstyle	https://builds.apache.org/job/PreCommit-YARN-Build/22208/artifact/out/diff-checkstyle-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server.txt
unit	https://builds.apache.org/job/PreCommit-YARN-Build/22208/artifact/out/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-nodemanager.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/22208/testReport/
Max. process+thread count	316 (vs. ulimit of 10000)
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager U: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/22208/console
Powered by	Apache Yetus 0.8.0 http://yetus.apache.org

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> ○ Hadoop QA added a comment - 17/Oct/18 18:29

❌ **-1 overall**

Vote	Subsystem	Runtime	Comment
0	reexec	0m 19s	Docker mode activated.

			Prechecks
+1	@author	0m 0s	The patch does not contain any @author tags.
+1	test4tests	0m 0s	The patch appears to include 5 new or modified test files.
			trunk Compile Tests
0	mvndep	0m 49s	Maven dependency ordering for branch
+1	mvninstall	18m 1s	trunk passed
+1	compile	2m 32s	trunk passed
+1	checkstyle	0m 52s	trunk passed
+1	mvnsite	1m 7s	trunk passed
+1	shadedclient	12m 12s	branch has no errors when building and testing our client artifacts.
+1	findbugs	1m 44s	trunk passed
+1	javadoc	0m 47s	trunk passed
			Patch Compile Tests
0	mvndep	0m 10s	Maven dependency ordering for patch
+1	mvninstall	1m 4s	the patch passed
+1	compile	2m 27s	the patch passed
+1	javac	2m 27s	the patch passed
+1	checkstyle	0m 48s	the patch passed
+1	mvnsite	1m 2s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	11m 20s	patch has no errors when building and testing our client artifacts.
+1	findbugs	1m 57s	the patch passed
+1	javadoc	0m 39s	the patch passed
			Other Tests
+1	unit	2m 25s	hadoop-yarn-server-common in the patch passed.
-1	unit	19m 15s	hadoop-yarn-server-nodemanager in the patch failed.
+1	asflicense	0m 26s	The patch does not generate ASF License warnings.
		79m 16s	

Subsystem	Report/Notes
Docker	Client=17.05.0-ce Server=17.05.0-ce Image:yetus/hadoop:4b8c2b1
JIRA Issue	YARN-8893
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12944368/YARN-8893.v2.patch
Optional Tests	dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux c770f3a0fbfc 4.4.0-133-generic #159-Ubuntu SMP Fri Aug 10 07:31:43 UTC 2018 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	trunk / d54f559
maven	version: Apache Maven 3.3.9
Default Java	1.8.0_181
findbugs	v3.1.0-RC1
unit	https://builds.apache.org/job/PreCommit-YARN-Build/22219/artifact/out/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-nodemanager.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/22219/testReport/

Max. process+thread count	468 (vs. ulimit of 10000)
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager U: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/22219/console
Powered by	Apache Yetus 0.8.0 http://yetus.apache.org

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⌄ ◯ Hadoop QA added a comment - 19/Oct/18 18:29

❌ **-1 overall**

Vote	Subsystem	Runtime	Comment
0	reexec	0m 14s	Docker mode activated.
			Prechecks
+1	@author	0m 0s	The patch does not contain any @author tags.
+1	test4tests	0m 0s	The patch appears to include 5 new or modified test files.
			trunk Compile Tests
0	mvndep	0m 51s	Maven dependency ordering for branch
+1	mvninstall	22m 3s	trunk passed
+1	compile	2m 39s	trunk passed
+1	checkstyle	1m 0s	trunk passed
+1	mvnsite	1m 11s	trunk passed
+1	shadedclient	13m 44s	branch has no errors when building and testing our client artifacts.
+1	findbugs	1m 48s	trunk passed
+1	javadoc	0m 49s	trunk passed
			Patch Compile Tests
0	mvndep	0m 11s	Maven dependency ordering for patch
+1	mvninstall	1m 7s	the patch passed
+1	compile	2m 31s	the patch passed
+1	javac	2m 31s	the patch passed
+1	checkstyle	0m 55s	the patch passed
+1	mvnsite	1m 9s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	12m 29s	patch has no errors when building and testing our client artifacts.
+1	findbugs	2m 15s	the patch passed
+1	javadoc	0m 50s	the patch passed
			Other Tests
+1	unit	2m 27s	hadoop-yarn-server-common in the patch passed.
-1	unit	18m 32s	hadoop-yarn-server-nodemanager in the patch failed.
+1	asflicense	0m 27s	The patch does not generate ASF License warnings.
		86m 30s	

Subsystem	Report/Notes

Docker	Client=17.05.0-ce Server=17.05.0-ce Image:yetus/hadoop:4b8c2b1
JIRA Issue	YARN-8893
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12944368/YARN-8893.v2.patch
Optional Tests	dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux 27e431ac53da 3.13.0-143-generic #192-Ubuntu SMP Tue Feb 27 10:45:36 UTC 2018 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	trunk / 5e02b49
maven	version: Apache Maven 3.3.9
Default Java	1.8.0_181
findbugs	v3.1.0-RC1
unit	https://builds.apache.org/job/PreCommit-YARN-Build/22256/artifact/out/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-nodemanager.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/22256/testReport/
Max. process+thread count	340 (vs. ulimit of 10000)
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager U: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/22256/console
Powered by	Apache Yetus 0.8.0 http://yetus.apache.org

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⌄ 🧑 Botong Huang added a comment - 22/Oct/18 18:16

The cetest failure in NM is being tracked in YARN-8922

⌄ ⚪ Hadoop QA added a comment - 23/Oct/18 02:12

❌ -1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	0m 19s	Docker mode activated.
			Prechecks
+1	@author	0m 0s	The patch does not contain any @author tags.
+1	test4tests	0m 0s	The patch appears to include 5 new or modified test files.
			trunk Compile Tests
0	mvndep	3m 8s	Maven dependency ordering for branch
+1	mvninstall	21m 50s	trunk passed
+1	compile	2m 45s	trunk passed
+1	checkstyle	1m 0s	trunk passed
+1	mvnsite	1m 15s	trunk passed
+1	shadedclient	13m 45s	branch has no errors when building and testing our client artifacts.
+1	findbugs	1m 56s	trunk passed
+1	javadoc	0m 50s	trunk passed
			Patch Compile Tests
0	mvndep	0m 10s	Maven dependency ordering for patch

+1	mvninstall	1m 9s	the patch passed
+1	compile	2m 37s	the patch passed
+1	javac	2m 37s	the patch passed
+1	checkstyle	0m 54s	the patch passed
+1	mvnsite	1m 6s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	12m 21s	patch has no errors when building and testing our client artifacts.
+1	findbugs	2m 7s	the patch passed
+1	javadoc	0m 46s	the patch passed
			Other Tests
+1	unit	2m 20s	hadoop-yarn-server-common in the patch passed.
-1	unit	18m 51s	hadoop-yarn-server-nodemanager in the patch failed.
+1	asflicense	0m 28s	The patch does not generate ASF License warnings.
		88m 50s	

Reason	Tests
Failed junit tests	hadoop.yarn.server.nodemanager.containermanager.TestContainerManager

Subsystem	Report/Notes
Docker	Client=17.05.0-ce Server=17.05.0-ce Image:yetus/hadoop:4b8c2b1
JIRA Issue	YARN-8893
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12944368/YARN-8893.v2.patch
Optional Tests	dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux 03649758d972 3.13.0-153-generic #203-Ubuntu SMP Thu Jun 14 08:52:28 UTC 2018 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	trunk / e3cca12
maven	version: Apache Maven 3.3.9
Default Java	1.8.0_181
findbugs	v3.1.0-RC1
unit	https://builds.apache.org/job/PreCommit-YARN-Build/22295/artifact/out/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-nodemanager.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/22295/testReport/
Max. process+thread count	306 (vs. ulimit of 10000)
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager U: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/22295/console
Powered by	Apache Yetus 0.8.0 http://yetus.apache.org

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⌄ ◉ Hadoop QA added a comment - 24/Oct/18 00:50

✓ +1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	0m 13s	Docker mode activated.
			Prechecks
+1	@author	0m 0s	The patch does not contain any @author tags.
+1	test4tests	0m 0s	The patch appears to include 5 new or modified test files.
			trunk Compile Tests
0	mvndep	0m 12s	Maven dependency ordering for branch
+1	mvninstall	20m 6s	trunk passed
+1	compile	2m 51s	trunk passed
+1	checkstyle	1m 0s	trunk passed
+1	mvnsite	1m 13s	trunk passed
+1	shadedclient	13m 40s	branch has no errors when building and testing our client artifacts.
+1	findbugs	2m 6s	trunk passed
+1	javadoc	0m 48s	trunk passed
			Patch Compile Tests
0	mvndep	0m 20s	Maven dependency ordering for patch
+1	mvninstall	1m 8s	the patch passed
+1	compile	2m 40s	the patch passed
+1	javac	2m 40s	the patch passed
+1	checkstyle	0m 54s	the patch passed
+1	mvnsite	1m 6s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	12m 36s	patch has no errors when building and testing our client artifacts.
+1	findbugs	2m 8s	the patch passed
+1	javadoc	0m 45s	the patch passed
			Other Tests
+1	unit	2m 16s	hadoop-yarn-server-common in the patch passed.
+1	unit	18m 19s	hadoop-yarn-server-nodemanager in the patch passed.
+1	asflicense	0m 24s	The patch does not generate ASF License warnings.
		83m 56s	

Subsystem	Report/Notes
Docker	Client=17.05.0-ce Server=17.05.0-ce Image:yetus/hadoop:4b8c2b1
JIRA Issue	~~YARN-8893~~
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12944368/YARN-8893.v2.patch
Optional Tests	dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux 823a2579aa15 3.13.0-139-generic #188-Ubuntu SMP Tue Jan 9 14:43:09 UTC 2018 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	trunk / a0c0b79
maven	version: Apache Maven 3.3.9
Default Java	1.8.0_181

findbugs	v3.1.0-RC1
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/22313/testReport/
Max. process+thread count	337 (vs. ulimit of 10000)
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager U: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/22313/console
Powered by	Apache Yetus 0.8.0 http://yetus.apache.org

This message was automatically generated.

Giovanni Matteo Fumarola added a comment - 02/Nov/18 21:55

Thanks botong.

Why do you need to call this.rmProxyRelayer.shutdown(); from `forceKillApplication`?

Botong Huang added a comment - 02/Nov/18 22:21

This is also a proper shutdown and close connection in the forceKill case, so that after we forceKilled the UAM, our local proxy connection inside the AMRMClientRelayer won't be left open.

Giovanni Matteo Fumarola added a comment - 02/Nov/18 22:32

Perfect. Committed to trunk.

Thanks botong for the patch.

Hudson added a comment - 02/Nov/18 22:48

SUCCESS: Integrated in Jenkins build Hadoop-trunk-Commit #15351 (See https://builds.apache.org/job/Hadoop-trunk-Commit/15351/)
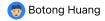YARN-8893. [AMRMProxy] Fix thread leak in AMRMClientRelayer and UAM (gifuma: rev 989715ec5066c6ac7868e25ad9234dc64723e61e)

- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common/src/test/java/org/apache/hadoop/yarn/server/MockResourceManagerFacade.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common/src/main/java/org/apache/hadoop/yarn/server/uam/UnmanagedApplicationManager.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common/src/test/java/org/apache/hadoop/yarn/server/uam/TestUnmanagedApplicationManager.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/amrmproxy/FederationInterceptor.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common/src/main/java/org/apache/hadoop/yarn/server/AMRMClientRelayer.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/amrmproxy/TestAMRMProxyService.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common/src/test/java/org/apache/hadoop/yarn/server/metrics/TestAMRMClientRelayerMetrics.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common/src/main/java/org/apache/hadoop/yarn/server/uam/UnmanagedAMPoolManager.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common/src/test/java/org/apache/hadoop/yarn/server/TestAMRMClientRelayer.java
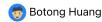
Botong Huang added a comment - 02/Nov/18 23:17

Thanks giovanni.fumarola for the review! Committed to branch-2 as well.

People

Assignee:

Botong Huang

Reporter:

👨 Botong Huang

Votes:

0 Vote for this issue

Watchers:

5 Start watching this issue

⌄ Dates

Created:

16/Oct/18 20:02

Updated:

02/Nov/18 23:19

Resolved:

02/Nov/18 22:31