Hadoop HDFS / HDFS-14942

Change Log Level to debug in JournalNodeSyncer#syncWithJournalAtIndex

Details

Type:	⬆ Improvement	Status:	**RESOLVED**
Priority:	≫ Minor	Resolution:	Fixed
Affects Version/s:	None	Fix Version/s:	3.3.0, 3.1.4, 3.2.2
Component/s:	None		
Labels:	None		
Hadoop Flags:	Reviewed		

Description

when hadoop 2.x upgrades to hadoop 3.x, InterQJournalProtocol is newly added,   so throw Unknown protocol.

the newly InterQJournalProtocol is used to sychronize past log segments to JNs that missed them. And that an error occurs does not affect normal service. I think it should not be a ERROR log,   and that log a warn log is more reasonable.

```
private void syncWithJournalAtIndex(int index) {
  ...
    GetEditLogManifestResponseProto editLogManifest;
    try {
      editLogManifest = jnProxy.getEditLogManifestFromJournal(jid,
          nameServiceId, 0, false);
    } catch (IOException e) {
      LOG.error("Could not sync with Journal at " +
          otherJNProxies.get(journalNodeIndexForSync), e);
      return;
    }
```

```
2019-10-30,15:11:17,388 ERROR org.apache.hadoop.hdfs.qjournal.server.JournalNodeSyncer: Could not sync with Journal at mos1-
hadoop-prc-ct17.ksru/10.85.3.59:111002019-10-30,15:11:17,388 ERROR org.apache.hadoop.hdfs.qjournal.server.JournalNodeSyncer:
Could not sync with Journal at mos1-hadoop-prc-
ct17.ksru/10.85.3.59:11100org.apache.hadoop.ipc.RemoteException(org.apache.hadoop.security.authorize.AuthorizationException):
Unknown protocol: org.apache.hadoop.hdfs.qjournal.protocol.InterQJournalProtocol
at org.apache.hadoop.ipc.Client.getRpcResponse(Client.java:1565)
at org.apache.hadoop.ipc.Client.call(Client.java:1511)
at org.apache.hadoop.ipc.Client.call(Client.java:1421)
at org.apache.hadoop.ipc.ProtobufRpcEngine$Invoker.invoke(ProtobufRpcEngine.java:228)
at org.apache.hadoop.ipc.ProtobufRpcEngine$Invoker.invoke(ProtobufRpcEngine.java:116)
at com.sun.proxy.$Proxy16.getEditLogManifestFromJournal(Unknown Source)
at
org.apache.hadoop.hdfs.qjournal.protocolPB.InterQJournalProtocolTranslatorPB.getEditLogManifestFromJournal(InterQJournalProtoc
at org.apache.hadoop.hdfs.qjournal.server.JournalNodeSyncer.syncWithJournalAtIndex(JournalNodeSyncer.java:250)
at org.apache.hadoop.hdfs.qjournal.server.JournalNodeSyncer.syncJournals(JournalNodeSyncer.java:226)
at org.apache.hadoop.hdfs.qjournal.server.JournalNodeSyncer.lambda$startSyncJournalsDaemon$0(JournalNodeSyncer.java:186)
at java.lang.Thread.run(Thread.java:748)
```

Attachments

📄 HDFS-14942.001.patch	1 kB	30/Oct/19 07:36
📄 HDFS-14942.002.patch	1 kB	03/Nov/19 05:42
📄 HDFS-14942.003.patch	1 kB	04/Nov/19 01:56
📄 HDFS-14942.004.patch	1 kB	04/Nov/19 07:54

Issue Links

relates to

| | HDFS-4025 QJM: Sychronize past log segments to JNs that missed them | | RESOLVED |
| | HDFS-13023 Journal Sync does not work on a secure cluster | | RESOLVED |

Activity

Hadoop QA added a comment - 30/Oct/19 10:25

❌ -1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	0m 56s	Docker mode activated.
			Prechecks
+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.
			trunk Compile Tests
+1	mvninstall	19m 3s	trunk passed
+1	compile	1m 2s	trunk passed
+1	checkstyle	0m 42s	trunk passed
+1	mvnsite	1m 6s	trunk passed
+1	shadedclient	14m 26s	branch has no errors when building and testing our client artifacts.
+1	findbugs	2m 15s	trunk passed
+1	javadoc	1m 14s	trunk passed
			Patch Compile Tests
+1	mvninstall	1m 0s	the patch passed
+1	compile	0m 55s	the patch passed
+1	javac	0m 55s	the patch passed
+1	checkstyle	0m 39s	the patch passed
+1	mvnsite	1m 0s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	13m 27s	patch has no errors when building and testing our client artifacts.
+1	findbugs	2m 20s	the patch passed
+1	javadoc	1m 11s	the patch passed
			Other Tests
-1	unit	103m 17s	hadoop-hdfs in the patch failed.
+1	asflicense	0m 32s	The patch does not generate ASF License warnings.
		165m 0s	

Reason	Tests
Failed junit tests	hadoop.hdfs.TestFileCreation
	hadoop.hdfs.server.namenode.TestNamenodeCapacityReport
	hadoop.hdfs.server.blockmanagement.TestUnderReplicatedBlocks
	hadoop.hdfs.TestMultipleNNPortQOP

Subsystem	Report/Notes
Docker	Client=19.03.4 Server=19.03.4 Image:yetus/hadoop:104ccca9169
JIRA Issue	HDFS-14942
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12984343/HDFS-14942.001.patch
Optional Tests	dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux b6fe14fcf6dd 4.15.0-66-generic #75-Ubuntu SMP Tue Oct 1 05:24:09 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	trunk / 012756a
maven	version: Apache Maven 3.3.9
Default Java	1.8.0_222
findbugs	v3.1.0-RC1
unit	https://builds.apache.org/job/PreCommit-HDFS-Build/28210/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt
Test Results	https://builds.apache.org/job/PreCommit-HDFS-Build/28210/testReport/
Max. process+thread count	2722 (vs. ulimit of 5500)
modules	C: hadoop-hdfs-project/hadoop-hdfs U: hadoop-hdfs-project/hadoop-hdfs
Console output	https://builds.apache.org/job/PreCommit-HDFS-Build/28210/console
Powered by	Apache Yetus 0.8.0 http://yetus.apache.org

This message was automatically generated.

⌄ ◎ Lisheng Sun added a comment - 01/Nov/19 02:11

hi weichiu elgoiri ayushtkn Could you mind review this patch? Thank you.

⌄ ◎ Íñigo Goiri added a comment - 01/Nov/19 17:12

As we are changing that, do you mind changing the log to use logger format with {}?

⌄ ◎ Wei-Chiu Chuang added a comment - 01/Nov/19 20:17

I'm assuming this issue happens during rolling upgrade between Hadoop 2 and Hadoop 3?

⌄ ◎ Lisheng Sun added a comment - 03/Nov/19 05:35

> I'm assuming this issue happens during rolling upgrade between Hadoop 2 and Hadoop 3?

weichiu yes, this issue happens during rolling upgrade between Hadoop 2 and Hadoop 3.

⌄ ◎ Lisheng Sun added a comment - 03/Nov/19 05:46

hi elgoiri, i updated this patch and upload the v002 patch. Could you help review it? Thank you.

⌄ ◎ Ayush Saxena added a comment - 03/Nov/19 06:38

Does this happen only, during rolling upgrade? Well issues with JN are usually fatal. Give a check, we don't land up abstracting it in some critical situation too.

⌄ ◎ Lisheng Sun added a comment - 03/Nov/19 06:57

ayushtkn

---

yes, it only happen during rolling upgrade.

The problem is mainly that the new interface does not exist in the old version.

the new InterQJournalProtocol is used to sychronize past log segments to JNs that missed them in another thread.

and if it fails, it does not affect normal service,

Hadoop QA added a comment - 03/Nov/19 08:55

❌ **-1 overall**

Vote	Subsystem	Runtime	Comment
0	reexec	0m 46s	Docker mode activated.
			Prechecks
+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.
			trunk Compile Tests
+1	mvninstall	20m 9s	trunk passed
+1	compile	1m 17s	trunk passed
+1	checkstyle	0m 43s	trunk passed
+1	mvnsite	1m 6s	trunk passed
+1	shadedclient	14m 42s	branch has no errors when building and testing our client artifacts.
+1	findbugs	2m 20s	trunk passed
+1	javadoc	1m 15s	trunk passed
			Patch Compile Tests
+1	mvninstall	1m 1s	the patch passed
+1	compile	0m 57s	the patch passed
+1	javac	0m 57s	the patch passed
+1	checkstyle	0m 37s	the patch passed
+1	mvnsite	1m 3s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	13m 56s	patch has no errors when building and testing our client artifacts.
+1	findbugs	2m 25s	the patch passed
+1	javadoc	1m 11s	the patch passed
			Other Tests
-1	unit	120m 15s	hadoop-hdfs in the patch failed.
+1	asflicense	0m 46s	The patch does not generate ASF License warnings.
		184m 27s	

Reason	Tests
Failed junit tests	hadoop.hdfs.TestDFSInotifyEventInputStreamKerberized
	hadoop.hdfs.server.namenode.TestAddStripedBlockInFBR
	hadoop.hdfs.TestDecommissionWithStriped
	hadoop.hdfs.server.namenode.ha.TestBootstrapStandby
	hadoop.hdfs.TestRollingUpgrade

Subsystem	Report/Notes
Docker	Client=19.03.4 Server=19.03.4 Image:yetus/hadoop:104ccca9169
JIRA Issue	HDFS-14942
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12984700/HDFS-14942.002.patch
Optional Tests	dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux 157ceda3ddc2 4.15.0-66-generic #75-Ubuntu SMP Tue Oct 1 05:24:09 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	trunk / d462308
maven	version: Apache Maven 3.3.9
Default Java	1.8.0_222
findbugs	v3.1.0-RC1
unit	https://builds.apache.org/job/PreCommit-HDFS-Build/28233/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt
Test Results	https://builds.apache.org/job/PreCommit-HDFS-Build/28233/testReport/
Max. process+thread count	2527 (vs. ulimit of 5500)
modules	C: hadoop-hdfs-project/hadoop-hdfs U: hadoop-hdfs-project/hadoop-hdfs
Console output	https://builds.apache.org/job/PreCommit-HDFS-Build/28233/console
Powered by	Apache Yetus 0.8.0 http://yetus.apache.org

This message was automatically generated.

⌄ ◯ Wei-Chiu Chuang added a comment - 03/Nov/19 20:11

Thanks leosun08

> yes, this issue happens during rolling upgrade between Hadoop 2 and Hadoop 3.

So, we didn't make the new protocol backward compatible. Fortunately it didn't stop rolling upgrade.

Could you update the log message to assure users can safely ignore the message if it happens during rolling upgrade?

⌄ ◯ Lisheng Sun added a comment - 04/Nov/19 01:58

Thanks weichiu for good sugestions.

I updated the log message and uploaded the v003 patch.

⌄ ◯ Hadoop QA added a comment - 04/Nov/19 04:51

❌ -1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	1m 24s	Docker mode activated.
			Prechecks
+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.
			trunk Compile Tests
+1	mvninstall	24m 46s	trunk passed

+1	compile	1m 22s	trunk passed
+1	checkstyle	0m 54s	trunk passed
+1	mvnsite	1m 23s	trunk passed
+1	shadedclient	17m 4s	branch has no errors when building and testing our client artifacts.
+1	findbugs	2m 15s	trunk passed
+1	javadoc	1m 12s	trunk passed
			Patch Compile Tests
+1	mvninstall	0m 59s	the patch passed
+1	compile	0m 53s	the patch passed
+1	javac	0m 53s	the patch passed
+1	checkstyle	0m 37s	the patch passed
+1	mvnsite	1m 0s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	13m 30s	patch has no errors when building and testing our client artifacts.
+1	findbugs	2m 24s	the patch passed
+1	javadoc	1m 10s	the patch passed
			Other Tests
-1	unit	99m 59s	hadoop-hdfs in the patch failed.
+1	asflicense	0m 34s	The patch does not generate ASF License warnings.
		170m 54s	

Reason	Tests
Failed junit tests	hadoop.hdfs.tools.TestDFSZKFailoverController
	hadoop.hdfs.TestMultipleNNPortQOP

Subsystem	Report/Notes
Docker	Client=19.03.4 Server=19.03.4 Image:yetus/hadoop:104ccca9169
JIRA Issue	HDFS-14942
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12984745/HDFS-14942.003.patch
Optional Tests	dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux 10a2021552d5 4.15.0-66-generic #75-Ubuntu SMP Tue Oct 1 05:24:09 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	trunk / d462308
maven	version: Apache Maven 3.3.9
Default Java	1.8.0_222
findbugs	v3.1.0-RC1
unit	https://builds.apache.org/job/PreCommit-HDFS-Build/28237/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt
Test Results	https://builds.apache.org/job/PreCommit-HDFS-Build/28237/testReport/
Max. process+thread count	2715 (vs. ulimit of 5500)
modules	C: hadoop-hdfs-project/hadoop-hdfs U: hadoop-hdfs-project/hadoop-hdfs

Console output	https://builds.apache.org/job/PreCommit-HDFS-Build/28237/console
Powered by	Apache Yetus 0.8.0 http://yetus.apache.org

This message was automatically generated.

⊽ ◉ **Ayush Saxena** added a comment - 04/Nov/19 07:23

Thanx leosun08 for confirming.
If this happens only during rolling Upgrade and never in any other case, as weichiu said, we need to always ignore. Shouldn't we turn it to debug, rather than putting a line to ignore?

⊽ ◉ **Lisheng Sun** added a comment - 04/Nov/19 07:58

Thanx ayushtkn weichiu for your good suggestions.

the message should be ignored and not be seen by user.

i updated the patch and uploaded the v004 patch.

⊽ ◉ **Hadoop QA** added a comment - 04/Nov/19 11:03

❌ **-1 overall**

Vote	Subsystem	Runtime	Comment
0	reexec	1m 20s	Docker mode activated.
			Prechecks
+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.
			trunk Compile Tests
+1	mvninstall	23m 39s	trunk passed
+1	compile	1m 14s	trunk passed
+1	checkstyle	0m 54s	trunk passed
+1	mvnsite	1m 27s	trunk passed
+1	shadedclient	17m 35s	branch has no errors when building and testing our client artifacts.
+1	findbugs	2m 44s	trunk passed
+1	javadoc	1m 34s	trunk passed
			Patch Compile Tests
+1	mvninstall	1m 23s	the patch passed
+1	compile	1m 13s	the patch passed
+1	javac	1m 13s	the patch passed
+1	checkstyle	0m 48s	the patch passed
+1	mvnsite	1m 17s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	15m 21s	patch has no errors when building and testing our client artifacts.
+1	findbugs	2m 22s	the patch passed
+1	javadoc	1m 13s	the patch passed
			Other Tests
-1	unit	108m 10s	hadoop-hdfs in the patch failed.
+1	asflicense	0m 42s	The patch does not generate ASF License warnings.
		182m 34s	

Reason	Tests
Failed junit tests	hadoop.hdfs.server.namenode.TestRedudantBlocks

Subsystem	Report/Notes
Docker	Client=19.03.4 Server=19.03.4 Image:yetus/hadoop:104ccca9169
JIRA Issue	HDFS-14942
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12984771/HDFS-14942.004.patch
Optional Tests	dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux 8d66f49e1f03 4.15.0-66-generic #75-Ubuntu SMP Tue Oct 1 05:24:09 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	trunk / d462308
maven	version: Apache Maven 3.3.9
Default Java	1.8.0_222
findbugs	v3.1.0-RC1
unit	https://builds.apache.org/job/PreCommit-HDFS-Build/28239/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt
Test Results	https://builds.apache.org/job/PreCommit-HDFS-Build/28239/testReport/
Max. process+thread count	2870 (vs. ulimit of 5500)
modules	C: hadoop-hdfs-project/hadoop-hdfs U: hadoop-hdfs-project/hadoop-hdfs
Console output	https://builds.apache.org/job/PreCommit-HDFS-Build/28239/console
Powered by	Apache Yetus 0.8.0 http://yetus.apache.org

This message was automatically generated.

∨ ⃝ Ayush Saxena added a comment - 04/Nov/19 20:27

Thanx leosun08 for the update. v004 Seems fair enough.
weichiu is it Ok with you?

∨ ⃝ Wei-Chiu Chuang added a comment - 04/Nov/19 20:29

Ok from me.

∨ ⃝ Ayush Saxena added a comment - 06/Nov/19 14:46

v004 LGTM +1

∨ ⃝ Ayush Saxena added a comment - 06/Nov/19 16:36

Committed to trunk.
Thanx leosun08 for the contribution weichiu and elgoiri for the reviews!!!

∨ ⃝ Hudson added a comment - 06/Nov/19 16:55

SUCCESS: Integrated in Jenkins build Hadoop-trunk-Commit #17614 (See https://builds.apache.org/job/Hadoop-trunk-Commit/17614/)
HDFS-14942. Change Log Level to debug in (ayushsaxena: rev 9e287054a8aa0725643bc5c90601645302fffade)

- (edit) hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/qjournal/server/JournalNodeSyncer.java

∨ People

Assignee:

Lisheng Sun

Reporter:

Lisheng Sun

Votes:

0 Vote for this issue

Watchers:

5 Start watching this issue

⌄ Dates

Created:

30/Oct/19 07:32

Updated:

18/Nov/19 18:25

Resolved:

06/Nov/19 16:36