



Erasure Coding: Blocks are over-replicated while EC decommissioning

Details

Type:	Bug	Status:	RESOLVED
Priority:	Critical	Resolution:	Fixed
Affects Version/s:	3.2.0, 3.0.3, 3.1.2, 3.3.0	Fix Version/s:	3.3.0, 3.1.4, 3.2.2
Component/s:	ec		
Labels:	None		
Hadoop Flags:	Reviewed		

Description






Found that Some blocks are over-replicated while ec decommissioning. Messages in log as follow

```
INFO BlockStateChange: Block: blk_-9223372035714984112_363779142, Expected Replicas: 9, live replicas: 8, corrupt replicas: 0, decommissioned replicas: 0, decommissioning replicas: 3, maintenance replicas: 0, live entering maintenance replicas: 0, excess replicas: 0, Is Open File: false, Datanodes having this block: 10.254.41.34:50010 10.254.54.53:50010 10.254.28.53:50010 10.254.56.55:50010 10.254.32.21:50010 10.254.33.19:50010 10.254.63.17:50010 10.254.31.19:50010 10.254.35.29:50010 10.254.51.57:50010 10.254.40.58:50010 10.254.69.31:50010 10.254.47.18:50010 10.254.51.18:50010 10.254.43.57:50010 10.254.50.47:50010 10.254.42.37:50010 10.254.57.29:50010 10.254.67.40:50010 10.254.44.16:50010 10.254.59.38:50010 10.254.53.56:50010 10.254.45.11:50010 10.254.39.22:50010 10.254.30.16:50010 10.254.35.53:50010 10.254.22.30:50010 10.254.26.34:50010 10.254.17.58:50010 10.254.65.53:50010 10.254.60.39:50010 10.254.61.20:50010 10.254.64.23:50010 10.254.21.13:50010 10.254.37.35:50010 10.254.68.30:50010 10.254.62.37:50010 10.254.25.58:50010 10.254.52.54:50010 10.254.58.31:50010 10.254.49.11:50010 10.254.55.52:50010 10.254.19.19:50010 10.254.36.40:50010 10.254.18.30:50010 10.254.20.39:50010 10.254.66.52:50010 10.254.56.32:50010 10.254.24.55:50010 10.254.34.11:50010 10.254.29.58:50010 10.254.27.40:50010 10.254.46.33:50010 10.254.23.19:50010 10.254.74.12:50010 10.254.74.13:50010 10.254.41.35:50010 10.254.67.58:50010 10.254.54.11:50010 10.254.68.14:50010 10.254.27.14:50010 10.254.51.29:50010 10.254.45.21:50010 10.254.50.56:50010 10.254.47.31:50010 10.254.40.14:50010 10.254.65.21:50010 10.254.62.22:50010 10.254.57.16:50010 10.254.36.52:50010 10.254.30.13:50010 10.254.35.12:50010 10.254.69.34:50010 10.254.34.58:50010 10.254.17.50:50010 10.254.63.12:50010 10.254.28.21:50010 10.254.58.30:50010 10.254.24.57:50010 10.254.33.50:50010 10.254.44.52:50010 10.254.32.48:50010 10.254.43.39:50010 10.254.20.37:50010 10.254.56.59:50010 10.254.22.33:50010 10.254.60.34:50010 10.254.49.19:50010 10.254.52.21:50010 10.254.23.59:50010 10.254.21.16:50010 10.254.42.55:50010 10.254.29.33:50010 10.254.53.17:50010 10.254.19.14:50010 10.254.64.51:50010 10.254.46.20:50010 10.254.66.22:50010 10.254.18.38:50010 10.254.39.17:50010 10.254.37.57:50010 10.254.31.54:50010 10.254.55.33:50010 10.254.25.17:50010 10.254.61.33:50010 10.254.26.40:50010 10.254.59.23:50010 10.254.59.35:50010 10.254.66.48:50010 10.254.41.15:50010 10.254.54.31:50010 10.254.61.50:50010 10.254.62.31:50010 10.254.17.56:50010 10.254.29.18:50010 10.254.45.16:50010 10.254.63.48:50010 10.254.22.34:50010 10.254.37.51:50010 10.254.65.49:50010 10.254.58.21:50010 10.254.42.12:50010 10.254.55.17:50010 10.254.27.13:50010 10.254.57.17:50010 10.254.67.18:50010 10.254.31.31:50010 10.254.28.12:50010 10.254.36.12:50010 10.254.21.59:50010 10.254.30.30:50010 10.254.26.50:50010 10.254.40.40:50010 10.254.32.17:50010 10.254.47.55:50010 10.254.60.55:50010 10.254.49.33:50010 10.254.68.47:50010 10.254.39.21:50010 10.254.56.14:50010 10.254.33.54:50010 10.254.69.57:50010 10.254.43.50:50010 10.254.50.13:50010 10.254.25.49:50010 10.254.18.20:50010 10.254.52.23:50010 10.254.19.11:50010 10.254.20.21:50010 10.254.74.16:50010 10.254.64.55:50010 10.254.24.48:50010 10.254.46.29:50010 10.254.51.12:50010 10.254.23.56:50010 10.254.44.59:50010 10.254.53.58:50010 10.254.34.38:50010 10.254.35.37:50010 10.254.35.16:50010 10.254.36.23:50010 10.254.41.47:50010 10.254.54.12:50010 10.254.20.59:50010 , Current Datanode: 10.254.56.55:50010, Is current datanode decommissioning: true, Is current datanode entering maintenance: false
```

Decommisions hang for a long time.


Deep into the code and find that There is a problem in ErasureCodingWork.java
For Example, there are 2 nodes(dn0, dn1) in decommission and an ec block group with the 2 nodes. After creating an ErasureCodingWork to reconstruct, it will create 2 replication work.
If dn0 replicates in success and dn1 replicates in failure, Then it will always create replication work for dn0. The block on dn0 is over-replicated and The block on dn1 will never replicate
Here is the initial path for this.

▼ Attachments

 HDFS-14847.001.patch	11 kB	13/Sep/19 09:10
 HDFS-14847.002.patch	11 kB	13/Sep/19 12:17
 HDFS-14847.003.patch	10 kB	17/Oct/19 06:43
 HDFS-14847.004.patch	12 kB	18/Oct/19 10:17
 HDFS-14847.005.patch	12 kB	18/Oct/19 15:08

▼ Activity



▼  [Hadoop QA](#) added a comment - 13/Sep/19 11:39

 **-1 overall**

Vote	Subsystem	Runtime	Comment
0	reexec	0m 21s	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 1 new or modified test files.
			trunk Compile Tests
+1	mvninstall	18m 30s	trunk passed
+1	compile	0m 57s	trunk passed
+1	checkstyle	0m 42s	trunk passed
+1	mvnsite	1m 3s	trunk passed
+1	shadedclient	13m 0s	branch has no errors when building and testing our client artifacts.
+1	findbugs	2m 1s	trunk passed
+1	javadoc	0m 50s	trunk passed
			Patch Compile Tests
+1	mvninstall	0m 57s	the patch passed
+1	compile	0m 52s	the patch passed
+1	javac	0m 52s	the patch passed
-0	checkstyle	0m 38s	hadoop-hdfs-project/hadoop-hdfs: The patch generated 3 new + 41 unchanged - 0 fixed = 44 total (was 41)
+1	mvnsite	0m 57s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	12m 19s	patch has no errors when building and testing our client artifacts.
+1	findbugs	2m 5s	the patch passed
+1	javadoc	0m 47s	the patch passed
			Other Tests
-1	unit	81m 42s	hadoop-hdfs in the patch failed.
+1	asflicense	0m 30s	The patch does not generate ASF License warnings.
		138m 6s	

Reason	Tests
Failed junit tests	hadoop.hdfs.TestClientProtocolForPipelineRecovery

	hadoop.hdfs.TestMultipleNNPortQOP
	hadoop.hdfs.TestCrcCorruption
	hadoop.hdfs.tools.TestDFSZKFailoverController

Subsystem	Report/Notes
Docker	Client=19.03.1 Server=19.03.1 Image:yetus/hadoop:f4f9f0fe4f2
JIRA Issue	HDFS-14847
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12980248/HDFS-14847.001.patch
Optional Tests	dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux f447373ab3eb 4.15.0-54-generic #58-Ubuntu SMP Mon Jun 24 10:55:24 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	trunk / 4852a90
maven	version: Apache Maven 3.3.9
Default Java	1.8.0_222
findbugs	v3.1.0-RC1
checkstyle	https://builds.apache.org/job/PreCommit-HDFS-Build/27863/artifact/out/diff-checkstyle-hadoop-hdfs-project_hadoop-hdfs.txt
unit	https://builds.apache.org/job/PreCommit-HDFS-Build/27863/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt
Test Results	https://builds.apache.org/job/PreCommit-HDFS-Build/27863/testReport/
Max. process+thread count	3354 (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/27863/console
Powered by	Apache Yetus 0.8.0 http://yetus.apache.org

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- ▼

 Hui Fei


added a comment - 13/Sep/19 12:18

Upload v002 patch. Fix checkstyle
- ▼

 Hui Fei

added a comment - 13/Sep/19 12:22 - edited

[weichiuSammi](#) Could you please take a look ? Thanks
- ▼

 Hadoop QA

added a comment - 13/Sep/19 14:46

✖

-1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	0m 44s	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 1 new or modified test files.
			trunk Compile Tests
+1	mvninstall	17m 40s	trunk passed
+1	compile	1m 1s	trunk passed


+1	checkstyle	0m 44s	trunk passed
+1	mvnsize	1m 8s	trunk passed
+1	shadedclient	12m 59s	branch has no errors when building and testing our client artifacts.
+1	findbugs	1m 54s	trunk passed
+1	javadoc	0m 56s	trunk passed
			Patch Compile Tests
+1	mvninstall	1m 0s	the patch passed
+1	compile	0m 57s	the patch passed
+1	javac	0m 57s	the patch passed
+1	checkstyle	0m 39s	the patch passed
+1	mvnsize	1m 0s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	11m 37s	patch has no errors when building and testing our client artifacts.
+1	findbugs	2m 1s	the patch passed
+1	javadoc	0m 52s	the patch passed
			Other Tests
-1	unit	89m 43s	hadoop-hdfs in the patch failed.
+1	asflicense	0m 38s	The patch does not generate ASF License warnings.
		145m 40s	

Reason	Tests
Failed junit tests	hadoop.hdfs.server.blockmanagement.TestUnderReplicatedBlocks
	hadoop.hdfs.tools.TestDFSZKFailoverController
	hadoop.hdfs.server.balancer.TestBalancer

Subsystem	Report/Notes
Docker	Client=19.03.1 Server=19.03.1 Image:yetus/hadoop:39e82acc485
JIRA Issue	HDFS-14847
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12980268/HDFS-14847.002.patch
Optional Tests	dupname asflicense compile javac javadoc mvninstall mvnsize unit shadedclient findbugs checkstyle
uname	Linux b4f5aa2c2e6d 4.15.0-58-generic #64-Ubuntu SMP Tue Aug 6 11:12:41 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	trunk / 39e82ac
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/27866/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt
Test Results	https://builds.apache.org/job/PreCommit-HDFS-Build/27866/testReport/
Max. process+thread count	4075 (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/27866/console

Powered by	Apache Yetus 0.8.0 http://yetus.apache.org
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▼  [Ayush Saxena](#) added a comment - 14/Sep/19 05:31

Thanx [ferhui](#) for the report.

[marvelrock](#) [zhaoyim](#) you guys worked on similar issues, Do you want to give a check to it.

▼  [HuangTao](#) added a comment - 14/Sep/19 06:12 - edited

[ayushtkn](#) Yes, we had the same issue, however we have fixed it with the following code.


```
// org.apache.hadoop.hdfs.server.blockmanagement.BlockManager#chooseSourceDatanodes
if (state == StoredReplicaState.LIVE) { // move here
    if (!bitSet.get(blockIndex)) {
        bitSet.set(blockIndex);
    }
} else if (state == StoredReplicaState.LIVE) { // from here
    } else {
        numReplicas.subtract(StoredReplicaState.LIVE, 1);
        numReplicas.add(StoredReplicaState.REDUNDANT, 1);
    }
}
```

[ferhui](#) I think this code can fix it too. 😊

▼  [Hui Fei](#) added a comment - 14/Sep/19 06:33

[ayushtkn](#)[marvelrock](#) Thanks for your comments.

Failed tests are unrelated.

▼  [Ayush Saxena](#) added a comment - 14/Sep/19 06:44

I guess [marvelrock](#) tends to say After [HDFS-14699](#), the issue reported here will not come. if I am catching it correct?

Well, anyway If not, I will try to confirm in couple of days.


▼  [Hui Fei](#) added a comment - 14/Sep/19 07:05

[ayushtkn](#) Unit Test of [HDFS-14847](#).002.path is timed out without the fix on current trunk branch after [HDFS-14699](#).

I think maybe it is not the same issue.


▼  [Hui Fei](#) added a comment - 14/Sep/19 07:15

After reading comments on [HDFS-14699](#), i think the issue here is not the same as it.

▼  [HuangTao](#) added a comment - 14/Sep/19 07:46

I just verified with [ferhui](#)'s UT and my snippet, and failed.

I will write a new issues to record my scenario later.

▼  [HuangTao](#) added a comment - 15/Sep/19 04:22

I have submitted [HDFS-14849](#) to fix my bug

▼  [Hui Fei](#) added a comment - 18/Sep/19 12:46

[ayushtkn](#) Any thoughts?

▼  [Hui Fei](#) added a comment - 24/Sep/19 12:11 - edited

[ayushtkn](#) [weichiu](#) Could you please take a look? Thanks

▼  [Hui Fei](#) added a comment - 29/Sep/19 10:55 - edited

The problem of **findLeavingServiceSources** is that the decommissioning node(on which the replica has been transferred) is selected, but other decommissioning node is not selected(have change no longer)

For example, EC storage strategy is RS-3-2.


There is a file which contains 5 blocks: b0, b1, b2, b3, b4. And 5 blocks are from dn0, dn1, dn2, dn3, dn4.
We decommission dn0, dn1.

- 1st: Create ErasureCodingWork, leavingServiceSources are dn0, dn1; Targets are 2
Assume that Replicating b1 of dn1 failed, b0 of dn0 success.
The file contains 6 blocks: b0, b1, b2, b3, b4, b0. And 6 blocks are from dn0, dn1, dn2, dn3, dn4, dn5.
- 2nd: Create ErasureCodingWork, leavingServiceSources dn0, dn1. And target is 1(4 live blocks.)

```
final int num = Math.min(leavingServiceSources.size(), targets.length);
```

Will create replication work for dn0(**leavingServiceSources.get(0)**), targets[0]
- 3rd: The file contains 7 blocks: b0, b1, b2, b3, b4, b0, b0. And 6 blocks are from dn0, dn1, dn2, dn3, dn4, dn5, dn6.
Will create replication work for dn0(**leavingServiceSources.get(0)**), targets[0]
- 4th : The file contains 7 blocks: b0, b1, b2, b3, b4, b0, b0, b0. And 6 blocks are from dn0, dn1, dn2, dn3, dn4, dn5, dn6, dn7.
- 5th:...

The case occurs in our production environment.

▼  [Ayush Saxena](#) added a comment - 15/Oct/19 07:21 - [edited](#)

Thanx [ferhui](#) for the patch. On a quick look the fix seems correct to me. but I need to dig in more
Minor doubt:

```
166         BlockInfoStriped block = (BlockInfoStriped)getBlock();
```

Can this be avoided, seems required only for size of bitset, can we not use srcNodes?
For the test, for the wait methods, may be we can use GenericTestUtils.waitFor(...) ?
May be keep the helper methods together after the test only for better readability..

▼  [Hui Fei](#) added a comment - 17/Oct/19 06:48


[ayushtkn](#) Thanks for your review!

Can this be avoided, seems required only for size of bitset, can we not use srcNodes?

Maybe realTotalBlockNum here is more readability

For the test, for the wait methods, may be we can use GenericTestUtils.waitFor(...) ?
May be keep the helper methods together after the test only for better readability..


Use GenericTestUtils.waitFor and remove useless code and move helper methods together after the test

▼  [Ayush Saxena](#) added a comment - 17/Oct/19 06:53 - [edited](#)

if that is just for readability, and has no functional advantage, I must say we should not do that, Unnecessarily, though trivial why to have any performance impact.
In the test.

```
// There are 9 live replicas
670         assertEquals(9, bm.countNodes(blockInfo).liveReplicas());
```

Apart from this, add a check to verify all indices are there. Other than this Look Good.
FYI. [HDFS-14768](#) touches the same part.

▼  [Hadoop QA](#) added a comment - 17/Oct/19 09:45

 -1 overall

Vote	Subsystem	Runtime	Comment
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0	reexec	1m 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 1 new or modified test files.
			trunk Compile Tests
+1	mvninstall	23m 14s	trunk passed
+1	compile	1m 18s	trunk passed
+1	checkstyle	0m 57s	trunk passed
+1	mvnsite	1m 22s	trunk passed
+1	shadedclient	17m 21s	branch has no errors when building and testing our client artifacts.
+1	findbugs	2m 46s	trunk passed
+1	javadoc	1m 27s	trunk passed
			Patch Compile Tests
+1	mvninstall	1m 20s	the patch passed
+1	compile	1m 9s	the patch passed
+1	javac	1m 9s	the patch passed
-0	checkstyle	0m 48s	hadoop-hdfs-project/hadoop-hdfs: The patch generated 1 new + 41 unchanged - 0 fixed = 42 total (was 41)
+1	mvnsite	1m 19s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	13m 52s	patch has no errors when building and testing our client artifacts.
+1	findbugs	2m 20s	the patch passed
+1	javadoc	1m 8s	the patch passed
			Other Tests
-1	unit	103m 8s	hadoop-hdfs in the patch failed.
+1	asflicense	0m 34s	The patch does not generate ASF License warnings.
		174m 53s	

Reason	Tests
Failed junit tests	hadoop.hdfs.server.datanode.TestDataNodeErasureCodingMetrics
	hadoop.hdfs.server.blockmanagement.TestBlockTokenWithDFSStriped
	hadoop.hdfs.server.balancer.TestBalancer
	hadoop.hdfs.server.namenode.snapshot.TestRenameWithSnapshots

Subsystem	Report/Notes
Docker	Client=19.03.3 Server=19.03.3 Image:yetus/hadoop:104ccca9169
JIRA Issue	HDFS-14847
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12983236/HDFS-14847.003.patch
Optional Tests	dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux c3de8bfb1c8 4.15.0-58-generic #64-Ubuntu SMP Tue Aug 6 11:12:41 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	trunk / 3990ffa

maven	version: Apache Maven 3.3.9
Default Java	1.8.0_222
findbugs	v3.1.0-RC1
checkstyle	https://builds.apache.org/job/PreCommit-HDFS-Build/28101/artifact/out/diff-checkstyle-hadoop-hdfs-project_hadoop-hdfs.txt
unit	https://builds.apache.org/job/PreCommit-HDFS-Build/28101/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt
Test Results	https://builds.apache.org/job/PreCommit-HDFS-Build/28101/testReport/
Max. process+thread count	3173 (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/28101/console
Powered by	Apache Yetus 0.8.0 http://yetus.apache.org

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▼  Hui Fei added a comment - 18/Oct/19 10:30

ayushtkn Thanks for your review!

For an EC block(RS-6-3-1024k), internal block index is from 0 to 8;
Use bitSet to find live index and to set the bit true and prevent it from adding to srcIndices.
So size of bitSet is must greater than or equals 9.
If we use size of srcNodes, we should guarantee it is greater than or equals 9.
Maybe we should not dependent on srcNodes and we can not guarantee it is greater than or equals 9.
That's my opinions above.

Have added a check to verify storageinfos are all in indices array and the indexes from 0 to 9 are all exists.

Watching [HDFS-14768](#)

▼  Hadoop QA added a comment - 18/Oct/19 12:35


 -1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	1m 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 1 new or modified test files.
			trunk Compile Tests
+1	mvninstall	40m 53s	trunk passed
+1	compile	2m 24s	trunk passed
+1	checkstyle	1m 44s	trunk passed
+1	mvnsite	2m 35s	trunk passed
+1	shadedclient	29m 48s	branch has no errors when building and testing our client artifacts.
+1	findbugs	4m 31s	trunk passed
+1	javadoc	2m 26s	trunk passed
			Patch Compile Tests
+1	mvninstall	2m 17s	the patch passed
+1	compile	2m 7s	the patch passed
+1	javac	2m 7s	the patch passed

-0	checkstyle	1m 23s	hadoop-hdfs-project/hadoop-hdfs: The patch generated 1 new + 45 unchanged - 0 fixed = 46 total (was 45)
+1	mvnsite	2m 19s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	25m 49s	patch has no errors when building and testing our client artifacts.
+1	findbugs	4m 58s	the patch passed
-1	javadoc	0m 47s	hadoop-hdfs in the patch failed.
Other Tests			
-1	unit	1m 33s	hadoop-hdfs in the patch failed.
+1	asflicense	0m 56s	The patch does not generate ASF License warnings.
		128m 1s	

Subsystem	Report/Notes
Docker	Client=19.03.3 Server=19.03.3 Image:yetus/hadoop:104ccca9169
JIRA Issue	HDFS-14847
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12983369/HDFS-14847.004.patch
Optional Tests	dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux 47ab88676fc0 4.15.0-58-generic #64-Ubuntu SMP Tue Aug 6 11:12:41 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	trunk / f0699a7
maven	version: Apache Maven 3.3.9
Default Java	1.8.0_222
findbugs	v3.1.0-RC1
checkstyle	https://builds.apache.org/job/PreCommit-HDFS-Build/28112/artifact/out/diff-checkstyle-hadoop-hdfs-project_hadoop-hdfs.txt
javadoc	https://builds.apache.org/job/PreCommit-HDFS-Build/28112/artifact/out/patch-javadoc-hadoop-hdfs-project_hadoop-hdfs.txt
unit	https://builds.apache.org/job/PreCommit-HDFS-Build/28112/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt
Test Results	https://builds.apache.org/job/PreCommit-HDFS-Build/28112/testReport/
Max. process+thread count	340 (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/28112/console
Powered by	Apache Yetus 0.8.0 http://yetus.apache.org


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▼  Ayush Saxena added a comment - 18/Oct/19 13:23

Thanx ferhui
Can you handle checkstyle warning.

▼  Hui Fei added a comment - 18/Oct/19 15:09

Upload v005 patch. Fix checkstyle

▼  Hadoop QA added a comment - 18/Oct/19 15:33



-1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	1m 29s	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 1 new or modified test files.
			trunk Compile Tests
-1	mvninstall	0m 39s	root in trunk failed.
-1	compile	1m 29s	hadoop-hdfs in trunk failed.
-0	checkstyle	0m 39s	The patch fails to run checkstyle in hadoop-hdfs
+1	mvnsite	2m 31s	trunk passed
-1	shadedclient	4m 4s	branch has errors when building and testing our client artifacts.
+1	findbugs	4m 29s	trunk passed
-1	javadoc	0m 51s	hadoop-hdfs in trunk failed.
			Patch Compile Tests
-1	mvninstall	0m 40s	hadoop-hdfs in the patch failed.
-1	compile	0m 39s	hadoop-hdfs in the patch failed.
-1	javac	0m 39s	hadoop-hdfs in the patch failed.
-0	checkstyle	0m 39s	The patch fails to run checkstyle in hadoop-hdfs
-1	mvnsite	0m 41s	hadoop-hdfs in the patch failed.
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	0m 37s	patch has no errors when building and testing our client artifacts.
-1	findbugs	0m 37s	hadoop-hdfs in the patch failed.
-1	javadoc	0m 39s	hadoop-hdfs in the patch failed.
			Other Tests
-1	unit	0m 37s	hadoop-hdfs in the patch failed.
0	asflicense	0m 37s	ASF License check generated no output?
		21m 57s	

Subsystem	Report/Notes
Docker	Client=19.03.3 Server=19.03.3 Image:yetus/hadoop:104ccca9169
JIRA Issue	HDFS-14847
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12983399/HDFS-14847.005.patch
Optional Tests	dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux 349accb7a539 4.15.0-58-generic #64-Ubuntu SMP Tue Aug 6 11:12:41 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	trunk / f0699a7
maven	version: Apache Maven 3.3.9
Default Java	1.8.0_222
mvninstall	https://builds.apache.org/job/PreCommit-HDFS-Build/28117/artifact/out/branch-mvninstall-root.txt
compile	https://builds.apache.org/job/PreCommit-HDFS-Build/28117/artifact/out/branch-compile-hadoop-hdfs-project_hadoop-hdfs.txt

checkstyle	https://builds.apache.org/job/PreCommit-HDFS-Build/28117/artifact/out/testptch/patchprocess/maven-branch-checkstyle-hadoop-hdfs-project_hadoop-hdfs.txt
findbugs	v3.1.0-RC1
javadoc	https://builds.apache.org/job/PreCommit-HDFS-Build/28117/artifact/out/branch-javadoc-hadoop-hdfs-project_hadoop-hdfs.txt
mvninstall	https://builds.apache.org/job/PreCommit-HDFS-Build/28117/artifact/out/patch-mvninstall-hadoop-hdfs-project_hadoop-hdfs.txt
compile	https://builds.apache.org/job/PreCommit-HDFS-Build/28117/artifact/out/patch-compile-hadoop-hdfs-project_hadoop-hdfs.txt
javac	https://builds.apache.org/job/PreCommit-HDFS-Build/28117/artifact/out/patch-compile-hadoop-hdfs-project_hadoop-hdfs.txt
checkstyle	https://builds.apache.org/job/PreCommit-HDFS-Build/28117/artifact/out/testptch/patchprocess/maven-patch-checkstyle-hadoop-hdfs-project_hadoop-hdfs.txt
mvnsite	https://builds.apache.org/job/PreCommit-HDFS-Build/28117/artifact/out/patch-mvnsite-hadoop-hdfs-project_hadoop-hdfs.txt
findbugs	https://builds.apache.org/job/PreCommit-HDFS-Build/28117/artifact/out/patch-findbugs-hadoop-hdfs-project_hadoop-hdfs.txt
javadoc	https://builds.apache.org/job/PreCommit-HDFS-Build/28117/artifact/out/patch-javadoc-hadoop-hdfs-project_hadoop-hdfs.txt
unit	https://builds.apache.org/job/PreCommit-HDFS-Build/28117/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt
Test Results	https://builds.apache.org/job/PreCommit-HDFS-Build/28117/testReport/
Max. process+thread count	81 (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/28117/console
Powered by	Apache Yetus 0.8.0 http://yetus.apache.org

This message was automatically generated.

  Hadoop QA added a comment - 19/Oct/19 06:58

 -1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	25m 30s	Docker mode activated.
			Prechecks
+1	@author	0m 1s	The patch does not contain any @author tags.
+1	test4tests	0m 0s	The patch appears to include 1 new or modified test files.
			trunk Compile Tests
+1	mvninstall	21m 57s	trunk passed
+1	compile	1m 9s	trunk passed
+1	checkstyle	0m 47s	trunk passed
+1	mvnsite	1m 10s	trunk passed
+1	shadedclient	14m 43s	branch has no errors when building and testing our client artifacts.
+1	findbugs	2m 28s	trunk passed
+1	javadoc	1m 22s	trunk passed
			Patch Compile Tests
+1	mvninstall	1m 10s	the patch passed

+1	compile	1m 5s	the patch passed
+1	javac	1m 5s	the patch passed
+1	checkstyle	0m 42s	the patch passed
+1	mvnsize	1m 4s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	13m 29s	patch has no errors when building and testing our client artifacts.
+1	findbugs	2m 36s	the patch passed
+1	javadoc	1m 21s	the patch passed
			Other Tests
-1	unit	120m 52s	hadoop-hdfs in the patch failed.
+1	asflicense	0m 34s	The patch does not generate ASF License warnings.
		212m 5s	


Reason	Tests
Failed junit tests	hadoop.hdfs.server.datanode.TestDataNodeErasureCodingMetrics
	hadoop.hdfs.TestDFSClientRetries
	hadoop.hdfs.server.namenode.TestRedundantBlocks
	hadoop.hdfs.server.namenode.snapshot.TestRenameWithSnapshots

Subsystem	Report/Notes
Docker	Client=19.03.4 Server=19.03.4 Image:yetus/hadoop:104ccca9169
JIRA Issue	HDFS-14847
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12983399/HDFS-14847.005.patch
Optional Tests	dupname asflicense compile javac javadoc mvninstall mvnsize unit shadedclient findbugs checkstyle
uname	Linux d03a8d5c45dd 4.15.0-58-generic #64-Ubuntu SMP Tue Aug 6 11:12:41 UTC 2019 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	trunk / 155864d
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/28124/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt
Test Results	https://builds.apache.org/job/PreCommit-HDFS-Build/28124/testReport/
Max. process+thread count	2560 (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/28124/console
Powered by	Apache Yetus 0.8.0 http://yetus.apache.org

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▼ Ayush Saxena added a comment - 19/Oct/19 07:05

ferhui can you give a check to the test failures, seems like maybe related.

▼  Hadoop QA added a comment - 19/Oct/19 23:58

 -1 overall


Vote	Subsystem	Runtime	Comment
0	reexec	0m 50s	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 1 new or modified test files.
trunk Compile Tests			
+1	mvninstall	19m 5s	trunk passed
+1	compile	1m 1s	trunk passed
+1	checkstyle	0m 43s	trunk passed
+1	mvnsite	1m 7s	trunk passed
+1	shadedclient	14m 31s	branch has no errors when building and testing our client artifacts.
+1	findbugs	2m 15s	trunk passed
+1	javadoc	1m 11s	trunk passed
Patch Compile Tests			
+1	mvninstall	1m 2s	the patch passed
+1	compile	0m 55s	the patch passed
+1	javac	0m 55s	the patch passed
+1	checkstyle	0m 38s	the patch passed
+1	mvnsite	1m 2s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	13m 28s	patch has no errors when building and testing our client artifacts.
+1	findbugs	2m 19s	the patch passed
+1	javadoc	1m 9s	the patch passed
Other Tests			
-1	unit	99m 38s	hadoop-hdfs in the patch failed.
+1	asflicense	0m 35s	The patch does not generate ASF License warnings.
		161m 23s	

Reason	Tests
Failed junit tests	hadoop.hdfs.server.namenode.TestNamenodeCapacityReport
	hadoop.hdfs.server.namenode.snapshot.TestRenameWithSnapshots
	hadoop.hdfs.server.namenode.ha.TestDFSUpgradeWithHA

Subsystem	Report/Notes
Docker	Client=19.03.4 Server=19.03.4 Image:yetus/hadoop:104ccca9169
JIRA Issue	HDFS-14847
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12983399/HDFS-14847.005.patch
Optional Tests	dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux 122eaf18c7cf 4.15.0-58-generic #64-Ubuntu SMP Tue Aug 6 11:12:41 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux

Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	trunk / e6f95eb
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/28130/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt
Test Results	https://builds.apache.org/job/PreCommit-HDFS-Build/28130/testReport/
Max. process+thread count	2977 (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/28130/console
Powered by	Apache Yetus 0.8.0 http://yetus.apache.org


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▼  **Ayush Saxena** added a comment - 20/Oct/19 00:38

Tried the failed tests in my Local. Passes in my Local.

Seems unrelated, They changed in the last two builds for the same patch too.

v005 LGTM +1

▼  **Ayush Saxena** added a comment - 20/Oct/19 00:56

Committed to trunk.


Thanx [ferhui](#) for the contribution!!!

▼  **Hudson** added a comment - 20/Oct/19 01:10

SUCCESS: Integrated in Jenkins build Hadoop-trunk-Commit #17554 (See <https://builds.apache.org/job/Hadoop-trunk-Commit/17554/>)

HDFS-14847. Erasure Coding: Blocks are over-replicated while EC (ayushsaxena: rev 447f46d9628db54e77f88e2d109587cc7dfd6154)

- (edit) hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/blockmanagement/DatanodeDescriptor.java
- (edit) hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/blockmanagement/DatanodeAdminManager.java
- (edit) hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/blockmanagement/ProvidedStorageMap.java
- (edit) hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/blockmanagement/BlockInfoStriped.java
- (edit) hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/blockmanagement/ErasureCodingWork.java
- (edit) hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/TestDecommissionWithStriped.java

▼  **Ayush Saxena** added a comment - 20/Oct/19 01:19

Cherry-picked to 3.2 and 3.1

▼ People

Assignee:

 **Hui Fei**

Reporter:

 **Hui Fei**

Votes:

0 Vote for this issue

Watchers:

11 Start watching this issue

▼ Dates

Created:

13/Sep/19 08:55

Updated:

20/Oct/19 01:20

Resolved:

20/Oct/19 00:57