Item 229

**git_comments:**

1. * * Checks whether this block has a Provided replica. * @return true if this block has a replica on Provided storage.
2. * * Striped blocks on Provided Storage is not supported. All blocks on * Provided storage are assumed to be "contiguous".
3. block with only disk storage
4. block with only provided storage
5. now add provided storage

**git_commits:**

1. **summary:** HDFS-14889. Ability to check if a block has a replica on provided storage. Contributed by Ashvin Agrawal. (#1573)"
   **message:** HDFS-14889. Ability to check if a block has a replica on provided storage. Contributed by Ashvin Agrawal. (#1573)"

**github_issues:**

**github_issues_comments:**

**github_pulls:**

1. **title:** HDFS-14889. Ability to check if a block has a replica on provided storage.
   **body:** Addresses https://issues.apache.org/jira/browse/HDFS-14889. Adding a method in `BlockInfo` to return true of the block has any replica on a Provided storage.

**github_pulls_comments:**

1. :broken_heart: **-1 overall** | Vote | Subsystem | Runtime | Comment | |:----:|----------:|--------:|:--------| | 0 | reexec | 39 | Docker mode activated. | ||| _ Prechecks _ || +1 | dupname | 0 | No case conflicting files found. || +1 | @author | 0 | The patch does not contain any @author tags. || +1 | test4tests | 0 | The patch appears to include 1 new or modified test files. | ||| _ trunk Compile Tests _ || +1 | mvninstall | 1081 | trunk passed || +1 | compile | 65 | trunk passed || +1 | checkstyle | 46 | trunk passed || +1 | mvnsite | 72 | trunk passed || +1 | shadedclient | 835 | branch has no errors when building and testing our client artifacts. || +1 | javadoc | 84 | trunk passed || 0 | spotbugs | 169 | Used deprecated FindBugs config; considering switching to SpotBugs. || +1 | findbugs | 166 | trunk passed | ||| _ Patch Compile Tests _ || +1 | mvninstall | 63 | the patch passed || +1 | compile | 62 | the patch passed || +1 | javac | 62 | the patch passed || +1 | checkstyle | 39 | the patch passed || +1 | mvnsite | 63 | the patch passed || +1 | whitespace | 0 | The patch has no whitespace issues. || +1 | shadedclient | 778 | patch has no errors when building and testing our client artifacts. || +1 | javadoc | 82 | the patch passed || +1 | findbugs | 173 | the patch passed | ||| _ Other Tests _ || -1 | unit | 5596 | hadoop-hdfs in the patch failed. || +1 | asflicense | 41 | The patch does not generate ASF License warnings. ||||| 9372 ||| Reason | Tests | |-------:|:------|| Failed junit tests | hadoop.hdfs.server.blockmanagement.TestUnderReplicatedBlocks ||| hadoop.hdfs.tools.TestDFSZKFailoverController ||| hadoop.hdfs.server.namenode.snapshot.TestRenameWithSnapshots || Subsystem | Report/Notes | |----------:|:--------------|| Docker | Client=19.03.1 Server=19.03.1 base: https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/1/artifact/out/Dockerfile || GITHUB PR | https://github.com/apache/hadoop/pull/1573 || Optional Tests | dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle || uname | Linux 04f898c3378b 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 | personality/hadoop.sh || git revision | trunk / 41440ec || Default Java | 1.8.0_222 || unit | https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/1/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt || Test Results | https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/1/testReport/ || Max. process+thread count | 4004 (vs. ulimit of 5500) || modules | C: hadoop-hdfs-project/hadoop-hdfs U: hadoop-hdfs-project/hadoop-hdfs || Console output | https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/1/console || versions | git=2.7.4

maven=3.3.9 findbugs=3.1.0-RC1 | | Powered by | Apache Yetus 0.10.0 http://yetus.apache.org | This message was automatically generated.

2. :broken_heart: **-1 overall** | Vote | Subsystem | Runtime | Comment | |:----:|----------:|--------:|:--------| | 0 | reexec | 50 | Docker mode activated. | |||| _ Prechecks _ | | +1 | dupname | 0 | No case conflicting files found. | | +1 | @author | 0 | The patch does not contain any @author tags. | | +1 | test4tests | 0 | The patch appears to include 1 new or modified test files. | |||| _ trunk Compile Tests _ | | +1 | mvninstall | 1415 | trunk passed | | +1 | compile | 72 | trunk passed | | +1 | checkstyle | 53 | trunk passed | | +1 | mvnsite | 81 | trunk passed | | +1 | shadedclient | 985 | branch has no errors when building and testing our client artifacts. | | +1 | javadoc | 82 | trunk passed | | 0 | spotbugs | 205 | Used deprecated FindBugs config; considering switching to SpotBugs. | | +1 | findbugs | 202 | trunk passed | |||| _ Patch Compile Tests _ | | +1 | mvninstall | 73 | the patch passed | | +1 | compile | 64 | the patch passed | | +1 | javac | 64 | the patch passed | | +1 | checkstyle | 43 | the patch passed | | +1 | mvnsite | 71 | the patch passed | | +1 | whitespace | 0 | The patch has no whitespace issues. | | -1 | shadedclient | 272 | patch has errors when building and testing our client artifacts. | | +1 | javadoc | 90 | the patch passed | | -1 | findbugs | 26 | hadoop-hdfs in the patch failed. | |||| _ Other Tests _ | | -1 | unit | 25 | hadoop-hdfs in the patch failed. | | 0 | asflicense | 14 | ASF License check generated no output? | | | | 3669 | | | | Subsystem | Report/Notes | |----------:|:-------------| | Docker | Client=19.03.1 Server=19.03.1 base: https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/2/artifact/out/Dockerfile | | GITHUB PR | https://github.com/apache/hadoop/pull/1573 | | Optional Tests | dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle | | uname | Linux ff81f9dd94c3 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 | personality/hadoop.sh | | git revision | trunk / 685918e | | Default Java | 1.8.0_222 | | findbugs | https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/2/artifact/out/patch-findbugs-hadoop-hdfs-project_hadoop-hdfs.txt | | unit | https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/2/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt | | Test Results | https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/2/testReport/ | | Max. process+thread count | 411 (vs. ulimit of 5500) | | modules | C: hadoop-hdfs-project/hadoop-hdfs U: hadoop-hdfs-project/hadoop-hdfs | | Console output | https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/2/console | | versions | git=2.7.4 maven=3.3.9 findbugs=3.1.0-RC1 | | Powered by | Apache Yetus 0.10.0 http://yetus.apache.org | This message was automatically generated.

3. :broken_heart: **-1 overall** | Vote | Subsystem | Runtime | Comment | |:----:|----------:|--------:|:--------| | 0 | reexec | 41 | Docker mode activated. | |||| _ Prechecks _ | | +1 | dupname | 0 | No case conflicting files found. | | +1 | @author | 0 | The patch does not contain any @author tags. | | +1 | test4tests | 0 | The patch appears to include 1 new or modified test files. | |||| _ trunk Compile Tests _ | | +1 | mvninstall | 1083 | trunk passed | | +1 | compile | 68 | trunk passed | | +1 | checkstyle | 49 | trunk passed | | +1 | mvnsite | 74 | trunk passed | | +1 | shadedclient | 925 | branch has no errors when building and testing our client artifacts. | | +1 | javadoc | 92 | trunk passed | | 0 | spotbugs | 168 | Used deprecated FindBugs config; considering switching to SpotBugs. | | +1 | findbugs | 166 | trunk passed | |||| _ Patch Compile Tests _ | | +1 | mvninstall | 64 | the patch passed | | +1 | compile | 61 | the patch passed | | +1 | javac | 61 | the patch passed | | +1 | checkstyle | 40 | the patch passed | | +1 | mvnsite | 64 | the patch passed | | +1 | whitespace | 0 | The patch has no whitespace issues. | | +1 | shadedclient | 807 | patch has no errors when building and testing our client artifacts. | | +1 | javadoc | 79 | the patch passed | | +1 | findbugs | 169 | the patch passed | |||| _ Other Tests _ | | -1 | unit | 5347 | hadoop-hdfs in the patch failed. | | +1 | asflicense | 43 | The patch does not generate ASF License warnings. | | | | 9239 | | | | Reason | Tests | |-------:|:------| | Failed junit tests | hadoop.hdfs.server.namenode.TestRedudantBlocks | | | hadoop.hdfs.tools.TestDFSZKFailoverController | | | hadoop.hdfs.server.namenode.ha.TestStandbyCheckpoints | | | hadoop.hdfs.server.namenode.snapshot.TestRenameWithSnapshots | | Subsystem | Report/Notes | |----------:|:-------------| | Docker | Client=19.03.1 Server=19.03.1 base: https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/3/artifact/out/Dockerfile | | GITHUB PR | https://github.com/apache/hadoop/pull/1573 | | Optional Tests | dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle | | uname | Linux 3924a8d6fc07 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 | personality/hadoop.sh | | git revision | trunk / 4c24f24 | | Default Java | 1.8.0_222 | | unit | https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/3/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt | | Test Results | https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/3/testReport/ | | Max. process+thread count | 4100 (vs. ulimit of 5500) | | modules | C: hadoop-hdfs-project/hadoop-hdfs U: hadoop-hdfs-project/hadoop-hdfs | | Console output | https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/3/console | | versions | git=2.7.4

maven=3.3.9 findbugs=3.1.0-RC1 | | Powered by | Apache Yetus 0.10.0 http://yetus.apache.org | This message was automatically generated.

4. :broken_heart: **-1 overall** | Vote | Subsystem | Runtime | Comment | |:----:|----------:|--------:|:--------| | 0 | reexec | 426 | Docker mode activated. | |||| _ Prechecks _ | | +1 | dupname | 0 | No case conflicting files found. | | +1 | @author | 0 | The patch does not contain any @author tags. | | +1 | test4tests | 0 | The patch appears to include 1 new or modified test files. | |||| _ trunk Compile Tests _ | | +1 | mvninstall | 1215 | trunk passed | | +1 | compile | 63 | trunk passed | | +1 | checkstyle | 45 | trunk passed | | +1 | mvnsite | 70 | trunk passed | | +1 | shadedclient | 912 | branch has no errors when building and testing our client artifacts. | | +1 | javadoc | 79 | trunk passed | | 0 | spotbugs | 175 | Used deprecated FindBugs config; considering switching to SpotBugs. | | +1 | findbugs | 173 | trunk passed | |||| _ Patch Compile Tests _ | | +1 | mvninstall | 66 | the patch passed | | +1 | compile | 57 | the patch passed | | +1 | javac | 57 | the patch passed | | +1 | checkstyle | 40 | the patch passed | | +1 | mvnsite | 65 | the patch passed | | +1 | whitespace | 0 | The patch has no whitespace issues. | | +1 | shadedclient | 840 | patch has no errors when building and testing our client artifacts. | | +1 | javadoc | 76 | the patch passed | | +1 | findbugs | 176 | the patch passed | |||| _ Other Tests _ | | -1 | unit | 5951 | hadoop-hdfs in the patch failed. | | +1 | asflicense | 35 | The patch does not generate ASF License warnings. | | | | 10364 | | | Reason | Tests | |-------:|:------| | Failed junit tests | hadoop.hdfs.server.namenode.TestNameNodeMXBean | | | hadoop.hdfs.server.namenode.snapshot.TestRenameWithSnapshots | | | hadoop.hdfs.TestRollingUpgrade | | Subsystem | Report/Notes | |----------:|:-------------| | Docker | Client=19.03.1 Server=19.03.1 base: https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/4/artifact/out/Dockerfile | | GITHUB PR | https://github.com/apache/hadoop/pull/1573 | | Optional Tests | dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle | | uname | Linux dedb0fa0bade 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 | personality/hadoop.sh | | git revision | trunk / a3fe404 | | Default Java | 1.8.0_222 | | unit | https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/4/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt | | Test Results | https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/4/testReport/ | | Max. process+thread count | 3070 (vs. ulimit of 5500) | | modules | C: hadoop-hdfs-project/hadoop-hdfs U: hadoop-hdfs-project/hadoop-hdfs | | Console output | https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/4/console | | versions | git=2.7.4 maven=3.3.9 findbugs=3.1.0-RC1 | | Powered by | Apache Yetus 0.10.0 http://yetus.apache.org | This message was automatically generated.

5. :broken_heart: **-1 overall** | Vote | Subsystem | Runtime | Comment | |:----:|----------:|--------:|:--------| | 0 | reexec | 365 | Docker mode activated. | |||| _ Prechecks _ | | +1 | dupname | 0 | No case conflicting files found. | | +1 | @author | 0 | The patch does not contain any @author tags. | | +1 | test4tests | 0 | The patch appears to include 1 new or modified test files. | |||| _ trunk Compile Tests _ | | +1 | mvninstall | 1456 | trunk passed | | +1 | compile | 77 | trunk passed | | +1 | checkstyle | 57 | trunk passed | | +1 | mvnsite | 85 | trunk passed | | +1 | shadedclient | 1007 | branch has no errors when building and testing our client artifacts. | | +1 | javadoc | 95 | trunk passed | | 0 | spotbugs | 213 | Used deprecated FindBugs config; considering switching to SpotBugs. | | +1 | findbugs | 210 | trunk passed | |||| _ Patch Compile Tests _ | | +1 | mvninstall | 78 | the patch passed | | +1 | compile | 68 | the patch passed | | +1 | javac | 67 | the patch passed | | +1 | checkstyle | 47 | the patch passed | | +1 | mvnsite | 65 | the patch passed | | +1 | whitespace | 0 | The patch has no whitespace issues. | | +1 | shadedclient | 782 | patch has no errors when building and testing our client artifacts. | | +1 | javadoc | 82 | the patch passed | | +1 | findbugs | 195 | the patch passed | |||| _ Other Tests _ | | -1 | unit | 5219 | hadoop-hdfs in the patch failed. | | +1 | asflicense | 42 | The patch does not generate ASF License warnings. | | | | 10008 | | | Reason | Tests | |-------:|:------| | Failed junit tests | hadoop.hdfs.server.namenode.TestRedudantBlocks | | | hadoop.hdfs.server.namenode.ha.TestPendingCorruptDnMessages | | | hadoop.hdfs.server.namenode.snapshot.TestRenameWithSnapshots | | | hadoop.hdfs.TestReconstructStripedFile | | | hadoop.hdfs.server.blockmanagement.TestUnderReplicatedBlocks | | | hadoop.hdfs.TestDFSInotifyEventInputStreamKerberized | | Subsystem | Report/Notes | |-----------:|:--------------| | Docker | Client=19.03.1 Server=19.03.1 base: https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/5/artifact/out/Dockerfile | | GITHUB PR | https://github.com/apache/hadoop/pull/1573 | | Optional Tests | dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle | | uname | Linux b3f859c79d77 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 | personality/hadoop.sh | | git revision | trunk / a3fe404 | | Default Java | 1.8.0_222 | | unit | https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/5/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt | | Test Results | https://builds.apache.org/job/hadoop-

multibranch/job/PR-1573/5/testReport/ || Max. process+thread count | 4824 (vs. ulimit of 5500) || modules | C: hadoop-hdfs-project/hadoop-hdfs U: hadoop-hdfs-project/hadoop-hdfs || Console output | https://builds.apache.org/job/hadoop-multibranch/job/PR-1573/5/console || versions | git=2.7.4 maven=3.3.9 findbugs=3.1.0-RC1 || Powered by | Apache Yetus 0.10.0 http://yetus.apache.org | This message was automatically generated.

6. Thanks for posting this @ashvina and the review @goiri . Merged this into trunk.

**github_pulls_reviews:**

1. Can we just set by default as false and not do it here?
2. Shouldn't this already guarantee is false?
3. I see is the other method which goes over each DN, nevermind.
4. High level javadoc.
5. Add a comment saying why it's never provided.
6. Can you go over the overhead added to the regular pipeline without Provided?
7. I removed it for now.
8. I removed the check and there is no invocation in the regular pipeline now.
9. Added the javadoc.
10. space after the for
11. Space after the if
12. Fixed
13. Fixed
14. What about splitting this test into two with a name that describes what we are testing in each? Another option would be to just have a different blockInfo for the second chunk.
15. There exists a test for verifying behavior of add storage, `testAddStorage `. I had originally modified the original test and added the `isProvided` check. It seemed a bit confusing and out of place to me. So I added this test to clearly test both the scenarios. I would prefer this over two split methods. I can rename the second blockInfo if that adds value.
16. I'm more concerned about readability. Renaming the second one is fine with me.
17. Thanks ! I renamed it and added one more check.
18. The test now appears splittable. Give me a sec and I will improve it.
19. Done. Please take a look.
20. LGTM

**jira_issues:**

**jira_issues_comments:**