



Avoid recursive call getStoragePolicyID in INodeFile#computeQuotaUsage

Details

| | | | |
|--------------------|----------|----------------|--------|
| Type: | Sub-task | Status: | CLOSED |
| Priority: | Minor | Resolution: | Fixed |
| Affects Version/s: | None | Fix Version/s: | 2.7.0 |
| Component/s: | namenode | | |
| Labels: | None | | |
| Hadoop Flags: | Reviewed | | |

Description

This is a follow up based on comment from [jingzhao](#) on [HDFS-7723](#).

I just noticed that INodeFile#computeQuotaUsage calls getStoragePolicyID to identify the storage policy id of the file. This may not be very efficient (especially when we're computing the quota usage of a directory) because getStoragePolicyID may recursively check the ancestral INode's storage policy. I think here an improvement can be passing the lowest parent directory's storage policy down while traversing the tree.

Attachments

| | | |
|------------------------------------|-------|-----------------|
| HDFS-7811.00.patch | 14 kB | 12/Mar/15 16:40 |
| HDFS-7811.01.patch | 15 kB | 30/Mar/15 21:38 |
| HDFS-7811.02.patch | 18 kB | 01/Apr/15 23:42 |
| HDFS-7811.03.patch | 18 kB | 02/Apr/15 06:22 |
| HDFS-7811.04.patch | 18 kB | 02/Apr/15 22:34 |

Issue Links

| | | |
|--|--|----------|
| is related to | | |
| HDFS-11254 Standby NameNode may crash during failover if loading edits takes too long | | RESOLVED |
| HDFS-8029 NPE during disk usage calculation on snapshot directory, after a sub folder is deleted | | RESOLVED |

Activity

- [Xiaoyu Yao](#) added a comment - 12/Mar/15 16:40
- Post the patch that avoids recursive getStoragePolicyID call for directory quota usage calculation.
- [Hadoop QA](#) added a comment - 12/Mar/15 16:51
- 1 overall. Here are the results of testing the latest attachment <http://issues.apache.org/jira/secure/attachment/12704183/HDFS-7811.00.patch> against trunk revision ff83ae7.

-1 patch. Trunk compilation may be broken.

Console output: <https://builds.apache.org/job/PreCommit-HDFS-Build/9852//console>

This message is automatically generated.
- [Jing Zhao](#) added a comment - 17/Mar/15 21:33

Thanks for working on this, Xiaoyu. Some comments below.

1. In tryGetBlockStoragePolicyId, looks like getStoragePolicyID will not throw UnsupportedOperationException in our current code?

```
try {
    storagePolicyId = getStoragePolicyID();
} catch (UnsupportedOperationException ex) {
    if (LOG.isDebugEnabled()) {
        LOG.debug("BlockStoragePolicy is not supported on " + this.getClass());
    }
}
```


2. We now have 4 different versions of computeQuotaUsage to support different parameter combinations. We can remove some of them for simplification. E.g., computeQuotaUsage(BlockStoragePolicySuite, byte, QuotaCounts, boolean) is only called in one place.
3. In INodeFile#computeQuotaUsage, we should check if the INodeFile has local storage policy and if so use it to overwrite the given policy.

```
byte storagePolicyId =
    (blockStoragePolicyId != BlockStoragePolicySuite.ID_UNSPECIFIED) ?
    blockStoragePolicyId : getStoragePolicyID();
```

4. Similar logic should also be used in INodeDirectory. In general, we should use the current directory's storage policy (if there is one) to overwrite the given policy and pass it down to its children.
5. For deleted files/directories in snapshots, we can do the same thing as a normal child file/directory. Thus simply passing the parent directory's storage policy down should be good enough. Handling a reference INode can be more complicated, but we can do it in a separate jira.

```
-    deleted.computeQuotaUsage(bsps, counts, false, Snapshot.CURRENT_STATE_ID);
+    deleted.computeQuotaUsage(bsps, deleted.tryGetBlockStoragePolicyId(),
+        counts, false, Snapshot.CURRENT_STATE_ID);
```

6. Minor: there are couple of places where the line length exceeds 80

▼  Xiaoyu Yao added a comment - 17/Mar/15 22:33

Thanks [jingzhao](#) for the review.

1. In tryGetBlockStoragePolicyId, looks like getStoragePolicyID will not throw UnsupportedOperationException in our current code?

INodeSymlink#getStoragePolicyID throws UnsupportedOperationException.

2 We now have 4 different versions of computeQuotaUsage to support different parameter combinations. We can remove some of them for simplification. E.g., computeQuotaUsage(BlockStoragePolicySuite, byte, QuotaCounts, boolean) is only called in one place.


Agree. Will remove that in the next update.

3/4/5 In INodeFile#computeQuotaUsage, we should check if the INodeFile has local storage policy and if so use it to overwrite the given policy.


Agree. Will fix in the next update.

6 Minor: there are couple of places where the line length exceeds 80

Will fix in the next update.

▼  Xiaoyu Yao added a comment - 30/Mar/15 21:38

Patch updated based on feedback.

▼  Hadoop QA added a comment - 31/Mar/15 01:20

-1 overall. Here are the results of testing the latest attachment

<http://issues.apache.org/jira/secure/attachment/12708241/HDFS-7811.01.patch>

against trunk revision d9ac5ee.

+1 @author. The patch does not contain any @author tags.

-1 tests included. 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 javac. The applied patch does not increase the total number of javac compiler warnings.

+1 javadoc. There were no new javadoc warning messages.

+1 eclipse:eclipse. The patch built with eclipse:eclipse.

+1 findbugs. The patch does not introduce any new Findbugs (version 2.0.3) warnings.

+1 release audit. The applied patch does not increase the total number of release audit warnings.


-1 core tests. The following test timeouts occurred in hadoop-hdfs-project/hadoop-hdfs:

org.apache.hadoop.hdfs.server.blockmanagement.TestDatanodeManager

Test results: <https://builds.apache.org/job/PreCommit-HDFS-Build/10116/testReport/>

Console output: <https://builds.apache.org/job/PreCommit-HDFS-Build/10116/console>

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▼  Xiaoyu Yao added a comment - 31/Mar/15 07:09

I can't find an easy way to unit tests the recursive call does not happen without adding test hooks in production code.


▼  Jing Zhao added a comment - 01/Apr/15 23:32

Thanks for updating the patch, Xiaoyu! The patch looks good to me overall. Some comments:


1. In `tryGetBlockStoragePolicyId(byte)`, it is still possible that `getStoragePolicyID` gets called repeatedly when the storage policy id is not specified on any `INode` in the path.
2. In `FSImage#updateCountForQuotaRecursively`, the following code may keep using the same policy id (which is not `ID_UNSPECIFIED`) instead of refreshing it based on child `INode`'s local setting.

```
-      updateCountForQuotaRecursively(bsps, child.asDirectory(), counts);
+      updateCountForQuotaRecursively(bsps,
+      (blockStoragePolicyId == BlockStoragePolicySuite.ID_UNSPECIFIED) ?
+      child.tryGetBlockStoragePolicyId() : blockStoragePolicyId,
+      child.asDirectory(), counts);
```

3. For `computeQuotaUsage` of a reference `INode` we can simply use the given storage policy id
4. However, for `INodeReference#computeContentSummary`, we should call `getStoragePolicyID`
5. It looks to me that the parameter `blockStoragePolicyId`'s semantic is not consistent currently. In some cases it is the policy id of the parent, but sometimes it's the policy id of the current `INode` (e.g., `DirectoryWithSnapshotFeature#computeQuotaUsage4CurrentDirectory`)

▼  Jing Zhao added a comment - 01/Apr/15 23:42

I did some simple cleanup based on the current 01 patch. Please see if it's correct and looks ok to you.

▼  Hadoop QA added a comment - 02/Apr/15 03:26

-1 overall. Here are the results of testing the latest attachment

<http://issues.apache.org/jira/secure/attachment/12708859/HDFS-7811.02.patch>

against trunk revision 75cb1d4.

+1 @author. The patch does not contain any @author tags.

-1 tests included. 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 javac. The applied patch does not increase the total number of javac compiler warnings.

+1 javadoc. There were no new javadoc warning messages.

+1 **eclipse:eclipse**. The patch built with eclipse:eclipse.

+1 **findbugs**. The patch does not introduce any new Findbugs (version 2.0.3) warnings.

+1 **release audit**. The applied patch does not increase the total number of release audit warnings.


-1 **core tests**. The patch failed these unit tests in hadoop-hdfs-project/hadoop-hdfs:

org.apache.hadoop.hdfs.server.namenode.snapshot.TestSnapshotDiffReport
 org.apache.hadoop.fs.TestSymlinkHdfsDisable
 org.apache.hadoop.hdfs.TestDFSInotifyEventInputStream
 org.apache.hadoop.security.TestPermissionSymlinks
 org.apache.hadoop.hdfs.server.namenode.ha.TestRetryCacheWithHA
 org.apache.hadoop.hdfs.server.namenode.TestFileContextAcl
 org.apache.hadoop.hdfs.server.namenode.TestNamenodeRetryCache
 org.apache.hadoop.fs.TestSymlinkHdfsFileSystem
 org.apache.hadoop.fs.TestGlobPaths
 org.apache.hadoop.hdfs.server.namenode.TestFileTruncate
 org.apache.hadoop.hdfs.server.namenode.TestNameNodeXAttr
 org.apache.hadoop.hdfs.TestEncryptionZones
 org.apache.hadoop.hdfs.server.namenode.TestFSImage
 org.apache.hadoop.hdfs.server.namenode.TestNameNodeAcl
 org.apache.hadoop.hdfs.TestEncryptionZonesWithKMS
 org.apache.hadoop.fs.TestSymlinkHdfsFileContext
 org.apache.hadoop.hdfs.server.namenode.TestFsck
 org.apache.hadoop.fs.TestResolveHdfsSymlink
 org.apache.hadoop.hdfs.tools.offlineEditsViewer.TestOfflineEditsViewer
 org.apache.hadoop.hdfs.TestListFilesInFileContext
 org.apache.hadoop.hdfs.server.namenode.TestCheckpoint
 org.apache.hadoop.hdfs.server.namenode.TestINodeFile


Test results: <https://builds.apache.org/job/PreCommit-HDFS-Build/10155/testReport/>

Console output: <https://builds.apache.org/job/PreCommit-HDFS-Build/10155/console>

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▼  **Jing Zhao** added a comment - 02/Apr/15 06:22

The 02 patch missed the symlink check before calling getStoragePolicyID. Update the patch.

▼  **Hadoop QA** added a comment - 02/Apr/15 10:03

-1 **overall**. Here are the results of testing the latest attachment

<http://issues.apache.org/jira/secure/attachment/12708922/HDFS-7811.03.patch>
 against trunk revision 867d5d2.

+1 **@author**. The patch does not contain any @author tags.

-1 **tests included**. 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 **javac**. The applied patch does not increase the total number of javac compiler warnings.

+1 **javadoc**. There were no new javadoc warning messages.

+1 **eclipse:eclipse**. The patch built with eclipse:eclipse.

+1 **findbugs**. The patch does not introduce any new Findbugs (version 2.0.3) warnings.

+1 **release audit**. The applied patch does not increase the total number of release audit warnings.


-1 **core tests**. The patch failed these unit tests in hadoop-hdfs-project/hadoop-hdfs:

org.apache.hadoop.hdfs.server.namenode.ha.TestDFSZKFailoverController

Test results: <https://builds.apache.org/job/PreCommit-HDFS-Build/10160/testReport/>


Console output: <https://builds.apache.org/job/PreCommit-HDFS-Build/10160/console>

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▼  Xiaoyu Yao added a comment - 02/Apr/15 16:25


Thanks [jingzhao](#) for the patch. The v03 looks pretty good to me.

The failed Jenkins test seems unrelated. I tried TestDFSZKFailoverController locally with patch v03 and it did not repro.
+1 (non-binding).


▼  Tsz-wo Sze added a comment - 02/Apr/15 22:29

- `INode.getStoragePolicyID(byte)` does not throw exception for symlinks but `INode.getStoragePolicyID()` does. How about renaming the new method to `getStoragePolicyIDNoException(byte)`?
- The indentation below is off.


```
//INodeReference
- computeQuotaUsage(summary.getBlockStoragePolicySuite(), q, false, lastSnapshotId);
- summary.getCounts().addContent(Content.DISKSPACE, q.getStorageSpace());
- summary.getCounts().addTypeSpaces(q.getTypeSpaces());
+ computeQuotaUsage(summary.getBlockStoragePolicySuite(),
+   getStoragePolicyID(), q, false, lastSnapshotId);
+   summary.getCounts().addContent(Content.DISKSPACE, q.getStorageSpace());
+   summary.getCounts().addTypeSpaces(q.getTypeSpaces());
```

▼  Jing Zhao added a comment - 02/Apr/15 22:34

Thanks for the review, Xiaoyu and Nicholas! Update the patch to address Nicholas's comments.

▼  Tsz-wo Sze added a comment - 02/Apr/15 23:17

+1 the new patch looks good.

▼  Hadoop QA added a comment - 03/Apr/15 02:31

-1 overall. Here are the results of testing the latest attachment

<http://issues.apache.org/jira/secure/attachment/12709097/HDFS-7811.04.patch>
against trunk revision 16b74f9.

+1 @author. The patch does not contain any @author tags.

-1 tests included. 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 javac. The applied patch does not increase the total number of javac compiler warnings.

+1 javadoc. There were no new javadoc warning messages.

+1 eclipse:eclipse. The patch built with eclipse:eclipse.

+1 findbugs. The patch does not introduce any new Findbugs (version 2.0.3) warnings.

+1 release audit. The applied patch does not increase the total number of release audit warnings.


-1 core tests. The patch failed these unit tests in hadoop-hdfs-project/hadoop-hdfs:

org.apache.hadoop.hdfs.TestEncryptionZonesWithKMS

Test results: <https://builds.apache.org/job/PreCommit-HDFS-Build/10168/testReport/>

Console output: <https://builds.apache.org/job/PreCommit-HDFS-Build/10168/console>

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▼  Jing Zhao added a comment - 03/Apr/15 04:28

I've committed this to trunk, branch-2 and branch-2.7.

▼  Hudson added a comment - 03/Apr/15 04:34

FAILURE: Integrated in Hadoop-trunk-Commit #7503 (See <https://builds.apache.org/job/Hadoop-trunk-Commit/7503/>)

[HDFS-7811](#). Avoid recursive call getStoragePolicyID in INodeFile#computeQuotaUsage. Contributed by Xiaoyu Yao and Jing Zhao.
(jing9: rev 72f6bd4893dcf10d6dad24753f9be99505a87a1f)

- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INode.java

- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/snapshot/DirectoryWithSnapshotFeature.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeFile.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/FSImage.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeSymlink.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeReference.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeMap.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeDirectory.java
- hadoop-hdfs-project/hadoop-hdfs/CHANGES.txt

▼  Hudson added a comment - 03/Apr/15 11:31

FAILURE: Integrated in Hadoop-Yarn-trunk-Java8 #152 (See <https://builds.apache.org/job/Hadoop-Yarn-trunk-Java8/152/>)
[HDFS-7811](#). Avoid recursive call getStoragePolicyID in INodeFile#computeQuotaUsage. Contributed by Xiaoyu Yao and Jing Zhao.
 (jing9: rev 72f6bd4893dcf10d6dad24753f9be99505a87a1f)

- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeSymlink.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INode.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeMap.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeDirectory.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeReference.java
- hadoop-hdfs-project/hadoop-hdfs/CHANGES.txt
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeFile.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/snapshot/DirectoryWithSnapshotFeature.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/FSImage.java

▼  Hudson added a comment - 03/Apr/15 11:47

FAILURE: Integrated in Hadoop-Yarn-trunk #886 (See <https://builds.apache.org/job/Hadoop-Yarn-trunk/886/>)
[HDFS-7811](#). Avoid recursive call getStoragePolicyID in INodeFile#computeQuotaUsage. Contributed by Xiaoyu Yao and Jing Zhao.
 (jing9: rev 72f6bd4893dcf10d6dad24753f9be99505a87a1f)

- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/snapshot/DirectoryWithSnapshotFeature.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeSymlink.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeReference.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INode.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeMap.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeDirectory.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/FSImage.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeFile.java
- hadoop-hdfs-project/hadoop-hdfs/CHANGES.txt

▼  Hudson added a comment - 03/Apr/15 14:41

FAILURE: Integrated in Hadoop-Hdfs-trunk-Java8 #143 (See <https://builds.apache.org/job/Hadoop-Hdfs-trunk-Java8/143/>)
[HDFS-7811](#). Avoid recursive call getStoragePolicyID in INodeFile#computeQuotaUsage. Contributed by Xiaoyu Yao and Jing Zhao.
 (jing9: rev 72f6bd4893dcf10d6dad24753f9be99505a87a1f)

- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeSymlink.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeDirectory.java
- hadoop-hdfs-project/hadoop-hdfs/CHANGES.txt
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeFile.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/snapshot/DirectoryWithSnapshotFeature.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeReference.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeMap.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/FSImage.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INode.java

▼  Hudson added a comment - 03/Apr/15 14:46

FAILURE: Integrated in Hadoop-Hdfs-trunk #2084 (See <https://builds.apache.org/job/Hadoop-Hdfs-trunk/2084/>)
[HDFS-7811](#). Avoid recursive call getStoragePolicyID in INodeFile#computeQuotaUsage. Contributed by Xiaoyu Yao and Jing Zhao.

(jing9: rev 72f6bd4893dcf10d6dad24753f9be99505a87a1f)

- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeReference.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/snapshot/DirectoryWithSnapshotFeature.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeMap.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INode.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/FSImage.java
- hadoop-hdfs-project/hadoop-hdfs/CHANGES.txt
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeFile.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeDirectory.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeSymlink.java

▼  Hudson added a comment - 03/Apr/15 18:16

FAILURE: Integrated in Hadoop-Mapreduce-trunk-Java8 #153 (See <https://builds.apache.org/job/Hadoop-Mapreduce-trunk-Java8/153/>)

~~HDFS-7811~~. Avoid recursive call getStoragePolicyID in INodeFile#computeQuotaUsage. Contributed by Xiaoyu Yao and Jing Zhao.
(jing9: rev 72f6bd4893dcf10d6dad24753f9be99505a87a1f)

- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeSymlink.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeReference.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeMap.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeFile.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INode.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/FSImage.java
- hadoop-hdfs-project/hadoop-hdfs/CHANGES.txt
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeDirectory.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/snapshot/DirectoryWithSnapshotFeature.java

▼  Hudson added a comment - 03/Apr/15 18:36

FAILURE: Integrated in Hadoop-Mapreduce-trunk #2102 (See <https://builds.apache.org/job/Hadoop-Mapreduce-trunk/2102/>)

~~HDFS-7811~~. Avoid recursive call getStoragePolicyID in INodeFile#computeQuotaUsage. Contributed by Xiaoyu Yao and Jing Zhao.
(jing9: rev 72f6bd4893dcf10d6dad24753f9be99505a87a1f)

- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/snapshot/DirectoryWithSnapshotFeature.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeMap.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeDirectory.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeReference.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeSymlink.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/FSImage.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INodeFile.java
- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/INode.java
- hadoop-hdfs-project/hadoop-hdfs/CHANGES.txt

▼ People

Assignee:

 Xiaoyu Yao

Reporter:

 Xiaoyu Yao

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Created:

4/17/23, 5:54 PM

[HDFS-7811] Avoid recursive call getStoragePolicyID in INodeFile#computeQuotaUsage - ASF JIRA

18/Feb/15 23:17

Updated:

16/Dec/16 13:10

Resolved:

03/Apr/15 04:28