Hadoop HDFS / HDFS-14760

Log INFO mode if snapshot usage and actual usage differ

⌄ Details

Type:	⬆ Improvement	Status:	**RESOLVED**
Priority:	🔼 Major	Resolution:	Fixed
Affects Version/s:	None	Fix Version/s:	3.3.0
Component/s:	None		
Labels:	None		

⌄ Description

In DirectoryWithQuotaFeature#checkStoragespace code logs in error mode without throwing any exceptions or action and pollutes logs. This should be in INFO mode.

```
private void checkStoragespace(final INodeDirectory dir, final long computed) {
  if (-1 != quota.getStorageSpace() && usage.getStorageSpace() != computed) {
    NameNode.LOG.error("BUG: Inconsistent storagespace for directory "
        + dir.getFullPathName() + ". Cached = " + usage.getStorageSpace()
        + " != Computed = " + computed);
  }
}
```

⌄ Attachments

📄 HDFS-14760.001.patch		1 kB	20/Aug/19 23:34
📄 HDFS-14760.002.patch		1 kB	22/Aug/19 17:21

⌄ Issue Links

relates to

🟥 HDFS-11705 BUG: Inconsistent storagespace for directory	🔼	**OPEN**

⌄ Activity

↑

⌄ ◉ CR Hota added a comment - 20/Aug/19 23:35 - edited

weichiu
Could you help take a look at this? Am not very familiar why historically this check was added and also that it doesn't take any action but logged in error mode.

⌄ ◉ Wei-Chiu Chuang added a comment - 21/Aug/19 00:18

I'm pretty sure i've seen this before.

There are a few recent bug reports around quota calculation. Might be related: HDFS-14566 H̶D̶F̶S̶-̶1̶4̶6̶3̶3̶ H̶D̶F̶S̶-̶1̶4̶5̶1̶9̶

⌄ ◉ CR Hota added a comment - 21/Aug/19 00:44 - edited

Thanks weichiu
Adding some more folks for context. ayushtkn xkrogen RANith brahmareddy .

⌄ ◉ Hadoop QA added a comment - 21/Aug/19 02:06

❌ **-1 overall**

Vote	Subsystem	Runtime	Comment
0	reexec	0m 26s	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 2s	trunk passed
+1	compile	1m 4s	trunk passed
+1	checkstyle	0m 44s	trunk passed
+1	mvnsite	1m 5s	trunk passed
+1	shadedclient	13m 8s	branch has no errors when building and testing our client artifacts.
+1	findbugs	2m 0s	trunk passed
+1	javadoc	0m 49s	trunk passed
			Patch Compile Tests
+1	mvninstall	0m 56s	the patch passed
+1	compile	0m 52s	the patch passed
+1	javac	0m 52s	the patch passed
+1	checkstyle	0m 36s	the patch passed
+1	mvnsite	0m 57s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	12m 34s	patch has no errors when building and testing our client artifacts.
+1	findbugs	2m 6s	the patch passed
+1	javadoc	0m 50s	the patch passed
			Other Tests
-1	unit	87m 1s	hadoop-hdfs in the patch failed.
+1	asflicense	0m 34s	The patch does not generate ASF License warnings.
		145m 33s	

Reason	Tests
Failed junit tests	hadoop.hdfs.server.namenode.ha.TestEditLogTailer
	hadoop.hdfs.server.namenode.TestFsck
	hadoop.hdfs.server.namenode.TestNameNodeMetadataConsistency

Subsystem	Report/Notes
Docker	Client=19.03.1 Server=19.03.1 Image:yetus/hadoop:bdbca0e53b4
JIRA Issue	HDFS-14760
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12978122/HDFS-14760.001.patch
Optional Tests	dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux 942d1501b0aa 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 / 3a145e2
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/27595/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt
Test Results	https://builds.apache.org/job/PreCommit-HDFS-Build/27595/testReport/
Max. process+thread count	3348 (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/27595/console
Powered by	Apache Yetus 0.8.0 http://yetus.apache.org

This message was automatically generated.

Erik Krogen added a comment - 21/Aug/19 15:11

I think at least WARN level is warranted, given that this is an issue which could potentially cause directories to exceed their quota or be blocked even though their quota is not yet met. But I think your point about logging and not doing anything is valid. Perhaps in cases such as this we should be fixing the cached version after logging – self-heal, but also warn that something is not quite right.

CR Hota added a comment - 22/Aug/19 17:20

xkrogen Thanks for the review. 'WARN' makes sense too. Honestly I haven't been able to wrap around my head on the whole feature yet and how to handle these cases. But at this point, our hdfs installation wants to make sure no 'ERROR' is logged if it's not really an error that should/can be actionized.

Erik Krogen added a comment - 22/Aug/19 17:23

Sure, makes sense to me CR!

Ayush Saxena added a comment - 22/Aug/19 18:25

Thanx everyone for the discussion here, IMO too error is too harsh for it, moving it warn seems fair enough

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Hadoop QA added a comment - 23/Aug/19 00:20

❌ **-1 overall**

Vote	Subsystem	Runtime	Comment
0	reexec	0m 52s	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 56s	trunk passed
+1	compile	0m 59s	trunk passed
+1	checkstyle	0m 41s	trunk passed
+1	mvnsite	1m 6s	trunk passed
+1	shadedclient	13m 23s	branch has no errors when building and testing our client artifacts.
+1	findbugs	2m 8s	trunk passed
+1	javadoc	0m 52s	trunk passed

	Patch Compile Tests		
+1	mvninstall	1m 2s	the patch passed
+1	compile	0m 54s	the patch passed
+1	javac	0m 54s	the patch passed
+1	checkstyle	0m 37s	the patch passed
+1	mvnsite	1m 6s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	12m 51s	patch has no errors when building and testing our client artifacts.
+1	findbugs	2m 25s	the patch passed
+1	javadoc	0m 57s	the patch passed
	Other Tests		
-1	unit	128m 26s	hadoop-hdfs in the patch failed.
+1	asflicense	0m 46s	The patch does not generate ASF License warnings.
		190m 8s	

Reason	Tests
Failed junit tests	hadoop.hdfs.server.balancer.TestBalancerWithMultipleNameNodes
	hadoop.hdfs.server.blockmanagement.TestSlowDiskTracker
	hadoop.hdfs.server.blockmanagement.TestBlocksWithNotEnoughRacks
	hadoop.hdfs.server.mover.TestMover
	hadoop.hdfs.server.blockmanagement.TestBlockManager
	hadoop.hdfs.TestSafeModeWithStripedFileWithRandomECPolicy
	hadoop.hdfs.server.blockmanagement.TestBlockTokenWithDFSStriped
	hadoop.hdfs.server.sps.TestExternalStoragePolicySatisfier

Subsystem	Report/Notes
Docker	Client=19.03.1 Server=19.03.1 Image:yetus/hadoop:bdbca0e53b4
JIRA Issue	HDFS-14760
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12978318/HDFS-14760.002.patch
Optional Tests	dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux 0ac300ca276a 4.15.0-48-generic #51-Ubuntu SMP Wed Apr 3 08:28:49 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	trunk / 28fb4b5
maven	version: Apache Maven 3.3.9
Default Java	1.8.0_212
findbugs	v3.1.0-RC1
unit	https://builds.apache.org/job/PreCommit-HDFS-Build/27638/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt
Test Results	https://builds.apache.org/job/PreCommit-HDFS-Build/27638/testReport/
Max. process+thread count	2591 (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/27638/console
Powered by	Apache Yetus 0.8.0 http://yetus.apache.org

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Wei-Chiu Chuang added a comment - 23/Aug/19 00:30

+1

Wei-Chiu Chuang added a comment - 23/Aug/19 00:31

Turns out I reported the exact same issue before.

CR Hota added a comment - 23/Aug/19 00:45 - *edited*

weichiu Thanks!

Seems 002.patch is safe to commit.

CR Hota added a comment - 27/Aug/19 16:15 - *edited*

weichiu Thanks for the review. Could you help commit 002.patch?

Wei-Chiu Chuang added a comment - 27/Aug/19 23:15

+1 on the 002 patch. Will commit soon.

Hudson added a comment - 28/Aug/19 05:39

FAILURE: Integrated in Jenkins build Hadoop-trunk-Commit #17192 (See https://builds.apache.org/job/Hadoop-trunk-Commit/17192/)
HDFS-14760. Log INFO mode if snapshot usage and actual usage differ. (weichiu: rev 6e37d65b03ff57cca25a46695ca3852da795d6f7)

- (edit) hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/DirectoryWithQuotaFeature.java

People

Assignee:

CR Hota

Reporter:

CR Hota

Votes:

0   Vote for this issue

Watchers:

5   Start watching this issue

Dates

Created:

20/Aug/19 23:26

Updated:

02/Oct/19 17:13

Resolved:

27/Aug/19 23:20