



# DataXceiver#run() should not log InvalidToken exception as an error

Details

Type:	Bug	Status:	RESOLVED
Priority:	Major	Resolution:	Fixed
Affects Version/s:	2.7.2	Fix Version/s:	2.8.0, 3.0.0-alpha2
Component/s:	None		
Labels:	None		
Hadoop Flags:	Reviewed		
Release Note:	Log InvalidTokenException at trace level in DataXceiver#run().		

Description

DataXceiver#run() just log InvalidToken exception as an error.  
When client has an expired token and just refetch a new token, the DN log will has an error like below:

```
2016-08-11 02:41:09,817 ERROR datanode.DataNode (DataXceiver.java:run(269)) - XXXXXXX:50010:DataXceiver error processing READ_BLOCK
org.apache.hadoop.security.token.SecretManager$InvalidToken: Block token with block_token_identifier (expiryDate=1470850746803,
    at org.apache.hadoop.hdfs.security.token.block.BlockTokenSecretManager.checkAccess(BlockTokenSecretManager.java:280)
    at org.apache.hadoop.hdfs.security.token.block.BlockTokenSecretManager.checkAccess(BlockTokenSecretManager.java:301)
    at org.apache.hadoop.hdfs.security.token.block.BlockPoolTokenSecretManager.checkAccess(BlockPoolTokenSecretManager.java:301)
    at org.apache.hadoop.hdfs.server.datanode.DataXceiver.checkAccess(DataXceiver.java:1236)
    at org.apache.hadoop.hdfs.server.datanode.DataXceiver.readBlock(DataXceiver.java:481)
    at org.apache.hadoop.hdfs.protocol.datatransfer.Receiver.opReadBlock(Receiver.java:116)
    at org.apache.hadoop.hdfs.protocol.datatransfer.Receiver.processOp(Receiver.java:71)
    at org.apache.hadoop.hdfs.server.datanode.DataXceiver.run(DataXceiver.java:242)
    at java.lang.Thread.run(Thread.java:745)
```

This is not a server error and the DataXceiver#checkAccess() has already logged the InvalidToken as a warning.  
A simple fix by catching the InvalidToken exception in DataXceiver#run(), only keeping the warning logged by DataXceiver#checkAccess() in the DN log.

Attachments

<a href="#">HADOOP-13492.patch</a>	0.9 kB	12/Aug/16 08:31
<a href="#">HDFS-10760-1.patch</a>	0.9 kB	15/Aug/16 01:11

Issue Links

- is related to
- [HDFS-14231](#) DataXceiver#run() should not log exceptions caused by InvalidToken exception as an error RESOLVED
- relates to
- [HDFS-11012](#) Unnecessary INFO logging on DFSClient for InvalidToken RESOLVED

Activity

- [Pan Yuxuan](#) added a comment - 12/Aug/16 08:31
- Attachment is a patch for this.
- [Hadoop QA](#) added a comment - 12/Aug/16 18:59
- 1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	12m 21s	Docker mode activated.
+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.
+1	mvninstall	7m 27s	trunk passed
+1	compile	0m 47s	trunk passed
+1	checkstyle	0m 26s	trunk passed
+1	mvnsite	0m 58s	trunk passed
+1	mvnecclipse	0m 14s	trunk passed
+1	findbugs	1m 44s	trunk passed
+1	javadoc	0m 53s	trunk passed
+1	mvninstall	0m 45s	the patch passed
+1	compile	0m 40s	the patch passed
+1	javac	0m 40s	the patch passed
-0	checkstyle	0m 23s	hadoop-hdfs-project/hadoop-hdfs: The patch generated 1 new + 58 unchanged - 0 fixed = 59 total (was 58)
+1	mvnsite	0m 47s	the patch passed
+1	mvnecclipse	0m 9s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	findbugs	1m 46s	the patch passed
+1	javadoc	0m 52s	the patch passed
+1	unit	58m 42s	hadoop-hdfs in the patch passed.
+1	asflicense	0m 24s	The patch does not generate ASF License warnings.
		90m 27s	

Subsystem	Report/Notes
Docker	Image:yetus/hadoop:9560f25
JIRA Patch URL	<a href="https://issues.apache.org/jira/secure/attachment/12823430/HADOOP-13492.patch">https://issues.apache.org/jira/secure/attachment/12823430/HADOOP-13492.patch</a>
JIRA Issue	<a href="#">HDFS-10760</a>
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit findbugs checkstyle
uname	Linux e56684d45254 3.13.0-92-generic #139-Ubuntu SMP Tue Jun 28 20:42:26 UTC 2016 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/hadoop/patchprocess/precommit/personality/provided.sh
git revision	trunk / 23c6e3c
Default Java	1.8.0_101
findbugs	v3.0.0
checkstyle	<a href="https://builds.apache.org/job/PreCommit-HDFS-Build/16415/artifact/patchprocess/diff-checkstyle-hadoop-hdfs-project_hadoop-hdfs.txt">https://builds.apache.org/job/PreCommit-HDFS-Build/16415/artifact/patchprocess/diff-checkstyle-hadoop-hdfs-project_hadoop-hdfs.txt</a>
Test Results	<a href="https://builds.apache.org/job/PreCommit-HDFS-Build/16415/testReport/">https://builds.apache.org/job/PreCommit-HDFS-Build/16415/testReport/</a>
modules	C: hadoop-hdfs-project/hadoop-hdfs U: hadoop-hdfs-project/hadoop-hdfs
Console output	<a href="https://builds.apache.org/job/PreCommit-HDFS-Build/16415/console">https://builds.apache.org/job/PreCommit-HDFS-Build/16415/console</a>

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Apache Yetus 0.4.0-SNAPSHOT <http://yetus.apache.org>

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▼

Pan Yuxuan added a comment - 15/Aug/16 01:11

Uploaded a new patch with checkstyle fixes.

▼

Hadoop QA added a comment - 15/Aug/16 02:56

✖

 -1 overall


Vote	Subsystem	Runtime	Comment
0	reexec	0m 19s	Docker mode activated.
+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.
+1	mvninstall	8m 2s	trunk passed
+1	compile	0m 50s	trunk passed
+1	checkstyle	0m 27s	trunk passed
+1	mvnsite	0m 53s	trunk passed
+1	mvneclipse	0m 13s	trunk passed
+1	findbugs	1m 44s	trunk passed
+1	javadoc	0m 55s	trunk passed
+1	mvninstall	0m 48s	the patch passed
+1	compile	0m 41s	the patch passed
+1	javac	0m 41s	the patch passed
+1	checkstyle	0m 23s	the patch passed
+1	mvnsite	0m 50s	the patch passed
+1	mvneclipse	0m 11s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	findbugs	1m 48s	the patch passed
+1	javadoc	0m 59s	the patch passed
-1	unit	77m 28s	hadoop-hdfs in the patch failed.
+1	asflicense	0m 20s	The patch does not generate ASF License warnings.
		98m 14s	

Reason	Tests
Failed junit tests	hadoop.hdfs.server.namenode.ha.TestFailureToReadEdits
	hadoop.hdfs.TestFileAppendRestart


Subsystem	Report/Notes
Docker	Image:yetus/hadoop:9560f25
JIRA Patch URL	<a href="https://issues.apache.org/jira/secure/attachment/12823640/HDFS-10760-1.patch">https://issues.apache.org/jira/secure/attachment/12823640/HDFS-10760-1.patch</a>
JIRA Issue	<a href="#">HDFS-10760</a>
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit findbugs checkstyle

uname	Linux d806d63e0609 3.13.0-36-lowlatency #63-Ubuntu SMP PREEMPT Wed Sep 3 21:56:12 UTC 2014 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/hadoop/patchprocess/precommit/personality/provided.sh
git revision	trunk / d677b68
Default Java	1.8.0_101
findbugs	v3.0.0
unit	<a href="https://builds.apache.org/job/PreCommit-HDFS-Build/16418/artifact/patchprocess/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt">https://builds.apache.org/job/PreCommit-HDFS-Build/16418/artifact/patchprocess/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt</a>
Test Results	<a href="https://builds.apache.org/job/PreCommit-HDFS-Build/16418/testReport/">https://builds.apache.org/job/PreCommit-HDFS-Build/16418/testReport/</a>
modules	C: hadoop-hdfs-project/hadoop-hdfs U: hadoop-hdfs-project/hadoop-hdfs
Console output	<a href="https://builds.apache.org/job/PreCommit-HDFS-Build/16418/console">https://builds.apache.org/job/PreCommit-HDFS-Build/16418/console</a>
Powered by	Apache Yetus 0.4.0-SNAPSHOT <a href="http://yetus.apache.org">http://yetus.apache.org</a>

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▼  [Pan Yuxuan](#) added a comment - 16/Aug/16 06:45

Test Failure is not related to this patch


▼  [Pan Yuxuan](#) added a comment - 30/Aug/16 06:31

[brahmareddy ajisakaa shahrs87](#)

Could anyone please help to review this simple patch? Thanks!

▼  [Brahma Reddy Battula](#) added a comment - 30/Aug/16 12:46


[panyuxuan](#) thanks for reporting this issue.. Patch looks good to me....[ajisakaa](#) and [shahrs87](#) how do you think.?

▼  [Rushabh Shah](#) added a comment - 30/Aug/16 14:19

[panyuxuan](#): Thanks for reporting the issue.

Patch looks good to me as well.

+1 non-binding.


▼  [Wei-Chiu Chuang](#) added a comment - 30/Aug/16 15:40 - edited

[panyuxuan](#) thanks for reporting the issue and creating the patch.

In fact, DataXceiver#checkAccess() is used by multiple methods and I think it would be beneficial if you can also improve other callers as well.

For example, I can see DataXceiver#writeBlock calls checkAccess, and if an InvalidTokenException is thrown, it also logs a message at error level.

```
try {
...
} catch (IOException ioe) {
if (isClient) {
LOG.error(datanode + ":Exception transferring block " +
block + " to mirror " + mirrorNode + ": " + e);
throw e;
}
}
```

▼  [Rushabh Shah](#) added a comment - 30/Aug/16 15:46

I also checked for the same thing when I was reviewing.

But it turns out that checkAccess method is not in the try block, so it will just throw the InvalidToken Exception all the way back to DataXceiver#run.

So I think the patch should be good.

Correct me if I am wrong.

Wei-Chiu Chuang added a comment - 30/Aug/16 16:44

Thanks for correcting me. You're right about that.  
+1.

Wei-Chiu Chuang added a comment - 30/Aug/16 18:00

Committed it to trunk, branch-2 and branch-2.8.  
Thanks [panyuxuan](#) for contributing the patch and [brahmareddy](#) and [shahrs87](#) for comments!

Hudson added a comment - 30/Aug/16 18:20


SUCCESS: Integrated in Jenkins build Hadoop-trunk-Commit #10375 (See <https://builds.apache.org/job/Hadoop-trunk-Commit/10375/>)

[HDFS-10760](#). DataXceiver#run() should not log InvalidToken exception as (weichiu: rev c4ee6915a14e00342755d7cdcbf2d61518f306aa)


- (edit) `hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/DataXceiver.java`

#### People

Assignee:

 Pan Yuxuan

Reporter:

 Pan Yuxuan

Votes:

 0 Vote for this issue

Watchers:

 7 Start watching this issue

#### Dates

Created:

12/Aug/16 08:29

Updated:

04/Feb/19 23:27

Resolved:

30/Aug/16 18:00