

git_comments:

1. same as the default value in hdfs.proto
2. deliberately don't include an entry for "infoSecurePort"

git_commits:

1. **summary:** HDFS-5403. WebHdfs client cannot communicate with older WebHdfs servers post HDFS-5306. Contributed by Aaron T. Myers.
message: HDFS-5403. WebHdfs client cannot communicate with older WebHdfs servers post HDFS-5306. Contributed by Aaron T. Myers. git-svn-id:
<https://svn.apache.org/repos/asf/hadoop/common/trunk@1535056> 13f79535-47bb-0310-9956-ffa450edef68

github_issues:

github_issues_comments:

github_pulls:

github_pulls_comments:

github_pulls_reviews:

jira_issues:

1. **summary:** WebHdfs client cannot communicate with older WebHdfs servers post HDFS-5306
description: HDFS-5306 introduced the field infoSecurePort to the DatanodeIDProto PB definition and made it optional for compatibility purposes. However, we don't correctly the handle the case when this field is not present when deserializing the response from a WebHdfs request. This results in an NPE at the client when this occurs.

jira_issues_comments:

1. For reference, this results in an error like the following: {quote} java.lang.NullPointerException at org.apache.hadoop.hdfs.web.JsonUtil.toDatanodeInfo(JsonUtil.java:305) at org.apache.hadoop.hdfs.web.JsonUtil.toDatanodeInfoArray(JsonUtil.java:348) at org.apache.hadoop.hdfs.web.JsonUtil.toLocatedBlock(JsonUtil.java:377) at org.apache.hadoop.hdfs.web.JsonUtil.toLocatedBlockList(JsonUtil.java:413) at org.apache.hadoop.hdfs.web.JsonUtil.toLocatedBlocks(JsonUtil.java:446) at org.apache.hadoop.hdfs.web.WebHdfsFileSystem.getFileBlockLocations(WebHdfsFileSystem.java:1063) at org.apache.hadoop.fs.FileSystem\$4.next(FileSystem.java:1812) at org.apache.hadoop.fs.FileSystem\$4.next(FileSystem.java:1797) {quote}
2. Here's a patch which addresses the issue by checking for a {{null}} value in {{JsonUtil}} when deserializing the response from WebHdfs and providing a default if it is null. I used the same default (0) as what's in the PB definition.
3. **body:** This change looks good, thanks Aaron. What do you think about doing the same treatment for other optional fields in DatanodeInfoProto, e.g. {{capacity}}, {{dfsUsed}}, etc? Right now I know we set them to dummy values on the NN so this doesn't come up, but we really should try to make our JSON parsing consistent with our PB defs.
label: code-design
4. While I agree in principle, would you mind if we did that in a separate JIRA? I'd really like to keep this fix small and isolated. If that's amenable to you, I'll go ahead and file another one.
5. Sure, +1 pending Jenkins. Thanks Aaron.
6. {color:red}-1 overall{color}. Here are the results of testing the latest attachment <http://issues.apache.org/jira/secure/attachment/12609746/HDFS-5403.patch> against trunk revision . {color:green}+1 @author{color}. The patch does not contain any @author tags. {color:green}+1 tests included{color}. The patch appears to include 1 new or modified test files. {color:green}+1 javac{color}. The applied patch does not increase the total number of javac compiler warnings. {color:green}+1

javadoc{color}. The javadoc tool did not generate any warning messages. {color:red}-1 eclipse:eclipse{color}. The patch failed to build with eclipse:eclipse. {color:red}-1 findbugs{color}. The patch appears to introduce 1 new Findbugs (version 1.3.9) warnings. {color:green}+1 release audit{color}. The applied patch does not increase the total number of release audit warnings. {color:green}+1 core tests{color}. The patch passed unit tests in hadoop-hdfs-project/hadoop-hdfs. {color:green}+1 contrib tests{color}. The patch passed contrib unit tests. Test results: <https://builds.apache.org/job/PreCommit-HDFS-Build/5255/testReport/> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HDFS-Build/5255/artifact/trunk/patchprocess/newPatchFindbugsWarningshadoop-hdfs.html> Console output: <https://builds.apache.org/job/PreCommit-HDFS-Build/5255/console> This message is automatically generated.

7. I'm pretty confident the eclipse failure was unrelated to this change. The findbugs warning was just using "new Long(0)" instead of "0l". The difference between this patch and the last is just the following: {code} diff --git hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/web/JsonUtil.java hadoop-hdfs-project/hadoop index 0238469..db4adc5 100644 --- hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/web/JsonUtil.java +++ hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/web/JsonUtil.java @@ -304,7 +304,7 @@ static DatanodeInfo toDatanodeInfo(final Map<?, ?> m) { Object infoSecurePort = m.get("infoSecurePort"); if (infoSecurePort == null) { - infoSecurePort = new Long(0); // same as the default value in hdfs.proto + infoSecurePort = 0l; // same as the default value in hdfs.proto } return new DatanodeInfo({code} I'll commit this based on Andrew's +1 if Jenkins comes back clean.
8. {color:green}+1 overall{color}. Here are the results of testing the latest attachment <http://issues.apache.org/jira/secure/attachment/12609806/HDFS-5403.patch> against trunk revision . {color:green}+1 @author{color}. The patch does not contain any @author tags. {color:green}+1 tests included{color}. The patch appears to include 1 new or modified test files. {color:green}+1 javac{color}. The applied patch does not increase the total number of javac compiler warnings. {color:green}+1 javadoc{color}. The javadoc tool did not generate any warning messages. {color:green}+1 eclipse:eclipse{color}. The patch built with eclipse:eclipse. {color:green}+1 findbugs{color}. The patch does not introduce any new Findbugs (version 1.3.9) warnings. {color:green}+1 release audit{color}. The applied patch does not increase the total number of release audit warnings. {color:green}+1 core tests{color}. The patch passed unit tests in hadoop-hdfs-project/hadoop-hdfs. {color:green}+1 contrib tests{color}. The patch passed contrib unit tests. Test results: <https://builds.apache.org/job/PreCommit-HDFS-Build/5260/testReport/> Console output: <https://builds.apache.org/job/PreCommit-HDFS-Build/5260/console> This message is automatically generated.
9. SUCCESS: Integrated in Hadoop-trunk-Commit #4649 (See [<https://builds.apache.org/job/Hadoop-trunk-Commit/4649/>]) HDFS-5403. WebHdfs client cannot communicate with older WebHdfs servers post HDFS-5306. Contributed by Aaron T. Myers. (atm: <http://svn.apache.org/viewcvcs.cgi/?root=Apache-SVN&view=rev&rev=1535056>) * /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/CHANGES.txt * /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/web/JsonUtil.java * /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/web/TestJsonUtil.java
10. I've just committed this to trunk, branch-2, and branch-2.2. Thanks a lot for the review, Andrew. Here's the more comprehensive followup JIRA we discussed: HDFS-5408
11. SUCCESS: Integrated in Hadoop-Yarn-trunk #372 (See [<https://builds.apache.org/job/Hadoop-Yarn-trunk/372/>]) HDFS-5403. WebHdfs client cannot communicate with older WebHdfs servers post HDFS-5306. Contributed by Aaron T. Myers. (atm: <http://svn.apache.org/viewcvcs.cgi/?root=Apache-SVN&view=rev&rev=1535056>) * /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/CHANGES.txt * /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/web/JsonUtil.java * /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/web/TestJsonUtil.java
12. FAILURE: Integrated in Hadoop-Hdfs-trunk #1562 (See [<https://builds.apache.org/job/Hadoop-Hdfs-trunk/1562/>]) HDFS-5403. WebHdfs client cannot communicate with older WebHdfs servers post HDFS-5306. Contributed by Aaron T. Myers. (atm: <http://svn.apache.org/viewcvcs.cgi/?root=Apache-SVN&view=rev&rev=1535056>) * /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/CHANGES.txt * /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/web/JsonUtil.java * /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/web/TestJsonUtil.java
13. FAILURE: Integrated in Hadoop-Mapreduce-trunk #1588 (See [<https://builds.apache.org/job/Hadoop-Mapreduce-trunk/1588/>]) HDFS-5403. WebHdfs client cannot communicate with older WebHdfs servers

post HDFS-5306. Contributed by Aaron T. Myers. (atm: <http://svn.apache.org/viewcvcs.cgi/?root=Apache-SVN&view=rev&rev=1535056>) * /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/CHANGES.txt * /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/web/JsonUtil.java * /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/web/TestJsonUtil.java