[HDFS-3157](https://www.google.com/url?q=https://issues.apache.org/jira/browse/HDFS-3157&sa=D&source=editors&ust=1751359167212522&usg=AOvVaw3aNDgkC3K9CcUwpg1KjACz)

Error in deleting block is keep on coming from DN even after the block report and directory scanning has happened

**(1)  Log information**

**(1.1) Roles in this case**

DataNode (client-side)   NN(server-side)

**(1.2) Symptoms**

Cluster setup: 1NN, Three DN(DN1,DN2,DN3), replication factor-2,

"dfs.blockreport.intervalMsec" 300, "dfs.datanode.directoryscan.interval" 1

step 1: write one file "a.txt" with sync (not closed)  (syn guarantees the data has been written into DN)

step 2: Delete the blocks in one of the datanode say DN1(from rbw) to which replication happened.

step 3: close the file.

NameNode:

2012-03-19 13:41:36,905 INFO org.apache.hadoop.hdfs.StateChange: BLOCK NameSystem.addToCorruptReplicasMap: duplicate requested for blk\_2903555284838653156 to add as corrupt on XX.XX.XX.XX by /XX.XX.XX.XX because reported RBW replica with genstamp 1002 does not match COMPLETE block's genstamp in block map 1003

2012-03-19 13:41:39,588 INFO org.apache.hadoop.hdfs.StateChange: BLOCK\* Removing block blk\_2903555284838653156\_1003 from neededReplications as it has enough replicas.

DataNode: in which the block is deleted the following exception occured

2012-02-29 13:54:13,126 WARN org.apache.hadoop.hdfs.server.datanode.DataNode: Unexpected error trying to delete block blk\_2903555284838653156\_1003. BlockInfo not found in volumeMap.

2012-02-29 13:54:13,126 WARN org.apache.hadoop.hdfs.server.datanode.DataNode: Error processing datanode Command

java.io.IOException: Error in deleting blocks.

                      at org.apache.hadoop.hdfs.server.datanode.FSDataset.invalidate(FSDataset.java:2061)

                      at org.apache.hadoop.hdfs.server.datanode.BPOfferService.processCommandFromActive(BPOfferService.java:581)

                      at org.apache.hadoop.hdfs.server.datanode.BPOfferService.processCommandFromActor(BPOfferService.java:545)

                      at org.apache.hadoop.hdfs.server.datanode.BPServiceActor.processCommand(BPServiceActor.java:690)

                      at org.apache.hadoop.hdfs.server.datanode.BPServiceActor.offerService(BPServiceActor.java:522)

                      at org.apache.hadoop.hdfs.server.datanode.BPServiceActor.run(BPServiceActor.java:662)

                      at java.lang.Thread.run(Thread.java:619)

2012-05-09 12:30:04,122 INFO datanode.DataNode (DataXceiver.java:writeBlock(495))

- opWriteBlock BP-2087796974-10.10.11.90-1336591801017:blk\_-571802999240948417\_1003 received exception org.apache.hadoop.hdfs.server.datanode.ReplicaAlreadyExistsException:

Block BP-2087796974-10.10.11.90-1336591801017:blk\_-571802999240948417\_1003 already exists in state RBW and thus cannot be created.

2012-05-09 16:05:29,960 INFO hdfs.StateChange (BlockManager.java:markBlockAsCorrupt(926)) - BLOCK markBlockAsCorrupt:

block blk\_-6891652617965059210\_1002 could not be marked as corrupt as it does not belong to any file

2012-05-12 23:57:33,773 INFO hdfs.StateChange (BlockManager.java:computeReplicationWorkForBlocks(1226)) - BLOCK\* ask 127.0.0.1:54681 to replicate blk\_3471690017167574595\_1003 to datanode(s) 127.0.0.1:54041

2012-05-12 23:57:33,791 INFO datanode.DataNode (DataNode.java:transferBlock(1221)) - DatanodeRegistration(127.0.0.1, storageID=DS-1047816814-192.168.44.128-54681-1336847251649, infoPort=62840, ipcPort=26036, storageInfo=lv=-40;cid=testClusterID;nsid=1646783488;c=0) Starting thread to transfer block BP-1770179175-192.168.44.128-1336847247907:blk\_3471690017167574595\_1003 to 127.0.0.1:54041

2012-05-12 23:57:33,795 INFO hdfs.StateChange (BlockManager.java:processReport(1450)) - BLOCK\* processReport: from DatanodeRegistration(127.0.0.1, storageID=DS-1047816814-192.168.44.128-54681-1336847251649, infoPort=62840, ipcPort=26036, storageInfo=lv=-40;cid=testClusterID;nsid=1646783488;c=0), blocks: 1, processing time: 0 msecs

2012-05-12 23:57:33,796 INFO datanode.DataNode (BPServiceActor.java:blockReport(404)) - BlockReport of 1 blocks took 0 msec to generate and 2 msecs for RPC and NN processing

2012-05-12 23:57:33,796 INFO datanode.DataNode (BPServiceActor.java:blockReport(423)) - sent block report, processed command:org.apache.hadoop.hdfs.server.protocol.FinalizeCommand@12eb0b3

2012-05-12 23:57:33,811 INFO datanode.DataNode (DataXceiver.java:writeBlock(342)) - Receiving block BP-1770179175-192.168.44.128-1336847247907:blk\_3471690017167574595\_1003 src: /127.0.0.1:33583 dest: /127.0.0.1:54041

2012-05-12 23:57:33,812 INFO datanode.DataNode (DataXceiver.java:writeBlock(495)) - opWriteBlock BP-1770179175-192.168.44.128-1336847247907:blk\_3471690017167574595\_1003 received exception org.apache.hadoop.hdfs.server.datanode.ReplicaAlreadyExistsException: Block BP-1770179175-192.168.44.128-1336847247907:blk\_3471690017167574595\_1003 already exists in state RBW and thus cannot be created.

2012-05-12 23:57:33,814 ERROR datanode.DataNode (DataXceiver.java:run(193)) - 127.0.0.1:54041:DataXceiver error processing WRITE\_BLOCK operation src: /127.0.0.1:33583 dest: /127.0.0.1:54041

org.apache.hadoop.hdfs.server.datanode.ReplicaAlreadyExistsException: Block BP-1770179175-192.168.44.128-1336847247907:blk\_3471690017167574595\_1003 already exists in state RBW and thus cannot be created.

at org.apache.hadoop.hdfs.server.datanode.fsdataset.impl.FsDatasetImpl.createTemporary(FsDatasetImpl.java:795)

at org.apache.hadoop.hdfs.server.datanode.fsdataset.impl.FsDatasetImpl.createTemporary(FsDatasetImpl.java:1)

at org.apache.hadoop.hdfs.server.datanode.BlockReceiver.&lt;init&gt;(BlockReceiver.java:151)

at org.apache.hadoop.hdfs.server.datanode.DataXceiver.writeBlock(DataXceiver.java:365)

at org.apache.hadoop.hdfs.protocol.datatransfer.Receiver.opWriteBlock(Receiver.java:98)

at org.apache.hadoop.hdfs.protocol.datatransfer.Receiver.processOp(Receiver.java:66)

at org.apache.hadoop.hdfs.server.datanode.DataXceiver.run(DataXceiver.java:189)

at java.lang.Thread.run(Thread.java:619)

2012-05-12 23:57:33,815 INFO datanode.DataNode (DataNode.java:run(1406)) - DataTransfer: Transmitted BP-1770179175-192.168.44.128-1336847247907:blk\_3471690017167574595\_1003 (numBytes=100) to /127.0.0.1:54041

2012-05-12 23:57:34,066 INFO hdfs.StateChange (BlockManager.java:processReport(1450)) - BLOCK\* processReport: from DatanodeRegistration(127.0.0.1, storageID=DS-610636930-192.168.44.128-20029-1336847250644, infoPort=52843, ipcPort=46734, storageInfo=lv=-40;cid=testClusterID;nsid=1646783488;c=0), blocks: 0, processing time: 0 msecs

2012-05-12 23:57:34,067 INFO datanode.DataNode (BPServiceActor.java:blockReport(404)) - BlockReport of 0 blocks took 0 msec to generate and 3 msecs for RPC and NN processing

2012-05-12 23:57:34,068 INFO datanode.DataNode (BPServiceActor.java:blockReport(423)) - sent block report, processed command:org.apache.hadoop.hdfs.server.protocol.FinalizeCommand@a1364a

2012-05-12 23:57:34,099 INFO hdfs.StateChange (CorruptReplicasMap.java:addToCorruptReplicasMap(66)) - BLOCK NameSystem.addToCorruptReplicasMap: blk\_3471690017167574595 added as corrupt on 127.0.0.1:54041 by /127.0.0.1 because reported RBW replica with genstamp 1002 does not match COMPLETE block&apos;s genstamp in block map 1003

2012-05-12 23:57:34,100 INFO hdfs.StateChange (BlockManager.java:processReport(1450)) - BLOCK\* processReport: from DatanodeRegistration(127.0.0.1, storageID=DS-1452741455-192.168.44.128-54041-1336847250645, infoPort=10314, ipcPort=16230, storageInfo=lv=-40;cid=testClusterID;nsid=1646783488;c=0), blocks: 1, processing time: 2 msecs

2012-05-12 23:57:34,101 INFO datanode.DataNode (BPServiceActor.java:blockReport(404)) - BlockReport of 1 blocks took 0 msec to generate and 4 msecs for RPC and NN processing

2012-05-12 23:57:34,101 INFO datanode.DataNode (BPServiceActor.java:blockReport(423)) - sent block report, processed command:org.apache.hadoop.hdfs.server.protocol.FinalizeCommand@17194a4

2012-05-12 23:57:34,775 INFO hdfs.StateChange (BlockManager.java:computeReplicationWorkForBlocks(1096)) - BLOCK\* Removing block blk\_3471690017167574595\_1003 from neededReplications as it has enough replicas.