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Hadoop Common / HADOOP-4910

# NameNode should exclude corrupt replicas when choosing excessive replicas to delete

# Details

Type: Bug Status: CLOSED

Priority: Blocker Resolution: Fixed

Affects Version/s: 0.17.0 Fix Version/s: 0.18.3

Component/s: None
Labels: None
Hadoop Flags: Reviewed

### Description

Currently, when NameNode handles an over-replicated block in FSNamesystem#processOverReplicatedBlock, it excludes ones already in excessReplicateMap and decommissed ones, but it treats a corrupt replica as a valid one. This may lead to unnecessary deletion of more replicas and thus cause data lose. It should exclude corrupt replicas as well.

### Attachments

overReplicated.patch	1 kB	02/Jan/09 21:10
overReplicated1.patch	6 kB	06/Jan/09 18:56
overReplicated2.patch	6 kB	08/Jan/09 00:58
overReplicated2-br18.patch	6 kB	08/Jan/09 00:57

## Activity

O Hairong Kuang created issue - 18/Dec/08 00:47

New Value

O Hairong Kuang made changes - 18/Dec/08 00:48

 Component/s
 dfs [ 12310710 ]

 Affects Version/s
 0.17.0 [ 12312913 ]

**Original Value** 

Zheng Shao added a comment - 18/Dec/08 00:55

Is this only in 0.17.0, or later versions as well?

➤ O Hairong Kuang added a comment - 02/Jan/09 21:10

I am still working on a junit testcase, but attaching the fix first.

Yes, this bug affects 0.17 as well as later releases.

O Hairong Kuang made changes - 02/Jan/09 21:10

Attachment overReplicated.patch [ 12397035 ]

O Hairong Kuang made changes - 02/Jan/09 21:12

Assignee Hairong Kuang [ hairong ]

Robert Chansler made changes - 05/Jan/09 20:55

Fix Version/s 0.18.3 [ 12313494 ]

[exec] +1 javac. The applied patch does not increase the total number of javac compiler warnings.

[exec]

[exec] +1 findbugs. The patch does not introduce any new Findbugs warnings.

[exec]

[exec] +1 Eclipse classpath. The patch retains Eclipse classpath integrity.

[exec

Ant test-core failed with a known junit test failure reported at HADOOP-4907. All other unit tests passed.

▼ ○ Hairong Kuang added a comment - 08/Jan/09 18:38

I've just committed this.

O Hairong Kuang made changes - 08/Jan/09 18:38 Resolution Fixed [1] Status Patch Available [ 10002 ] Resolved [5] Nigel Daley made changes - 30/Jan/09 20:14 Status Resolved [5] Closed [6] Owen O'Malley made changes - 08/Jul/09 16:43 Component/s dfs [ 12310710 ] **Transition Time In Source Status Execution Times** O Hairong Kuang made transition - 08/Jan/09 00:58 21d 10m 1 OPEN 

PATCH AVAILABLE Hairong Kuang made transition - 08/Jan/09 18:38 PATCH AVAILABLE 
RESOLVED 17h 39m 1 Nigel Daley made transition - 30/Jan/09 20:14 RESOLVED - CLOSED 22d 1h 36m 1 People Assignee: Hairong Kuang Reporter: Hairong Kuang Votes: • Vote for this issue Watchers: 1 Start watching this issue Dates Created:

18/Dec/08 00:47

Updated:

08/Jul/09 16:43

Resolved:

08/Jan/09 18:38