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Hadoop HDFS / HDFS-3075

## Backport HADOOP-4885 to branch-1

### Details

Type:	Improvement	Status:	<b>CLOSED</b>
Priority:	Major	Resolution:	Fixed
Affects Version/s:	1.0.0	Fix Version/s:	1.0.2
Component/s:	namenode		
Labels:	None		
Target Version/s:	1.0.2		
Hadoop Flags:	Reviewed		

### Description

When a storage directory is inaccessible, namenode removes it from the valid storage dir list to a removedStorageDirs list. Those storage directories will not be restored when they become healthy again.

The proposed solution is to restore the previous failed directories at the beginning of checkpointing, say, rollEdits, by copying necessary metadata files from healthy directory to unhealthy ones. In this way, whenever a failed storage directory is recovered by the administrator, he/she can immediately force a checkpointing to restore a failed directory.

See also [HADOOP-4885](#).

### Issue Links

is related to

[HDFS-3127](#) failure in recovering removed storage directories should not stop checkpoint process **CLOSED**

relates to

[HADOOP-4885](#) Try to restore failed replicas of Name Node storage (at checkpoint time) **CLOSED**

### Activity

▼ [Uma Maheswara Rao G](#) added a comment - 11/Mar/12 22:27

Hi Brandon,  
It seems to me that you are looking for the same issue([HADOOP-4885](#)) which is already addressed right?  
Also we have the property to enable or disable that feature "dfs.namenode.name.dir.restore".  
Are you talking about some other issue/improvement here?

▼ [Eli Collins](#) added a comment - 11/Mar/12 22:34

This is a dupe of [HDFS-2781](#). Brandon, feel free to post a patch there.

▼ [Tsz-wo Sze](#) added a comment - 14/Mar/12 18:30

@Uma, you are right that [HADOOP-4885](#) already has fixed this. So this one is a backport. Will revise the title.  
@Eli, this is not a dupe of [HDFS-2781](#).

▼ [Tsz-wo Sze](#) added a comment - 14/Mar/12 18:34

Brandon already has posted a patch on [HADOOP-4885](#). He also has run all the unit tests.  
Jitendra and I have reviewed the patch.

▼ [Tsz-wo Sze](#) added a comment - 14/Mar/12 18:48

I have committed this (the patch was posted on [HADOOP-4885](#).) Thanks, Brandon!

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▼  [Eli Collins](#) added a comment - 14/Mar/12 23:46


Sorry, posted to the wrong jira!

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▼ **People**

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Assignee:

 [Brandon Li](#)

Reporter:

 [Brandon Li](#)

Votes:

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Watchers:

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▼ **Dates**

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Created:

11/Mar/12 22:17

Updated:

05/Apr/12 18:42

Resolved:

14/Mar/12 18:48