fsck

```
hdfs fsck <path>
      [-list-corruptfileblocks |
      [-move | -delete | -openforwrite]
      [-files [-blocks [-locations | -racks | -replicaDetails | -upgradedomains]]]
      [-includeSnapshots]
      [-storagepolicies] [-maintenance] [-blockId <blk_Id>]
```

COMMAND_OPTION	Description
path	Start checking from this path.
-delete	Delete corrupted files.
-files	Print out files being checked.
-files -blocks	Print out the block report
-files -blocks -locations	Print out locations for every block.
-files -blocks -racks	Print out network topology for data-node locations.
-files -blocks -replicaDetails	Print out each replica details.
-files -blocks -upgradedomains	Print out upgrade domains for every block.
-includeSnapshots	Include snapshot data if the given path indicates a snapshottable directory or there are snapshottable directories under it.
-list-corruptfileblocks	Print out list of missing blocks and files they belong to.
-move	Move corrupted files to /lost+found.
-openforwrite	Print out files opened for write.
-storagepolicies	Print out storage policy summary for the blocks.
-maintenance	Print out maintenance state node details.
-blockId	Print out information about the block.

dfsadmin

- Overview of cluster state
  ```
  hdfs dfsadmin -report
  ```
- Safemode
  ```
  hdfs dfsadmin [-safemode enter | leave | get | wait |
  forceExit]
  ```

HDFS Quota

- `hdfs dfsadmin -setQuota <N> <directory>...<directory>`
- `hdfs dfsadmin -clrQuota <directory>...<directory>`
- `hdfs dfsadmin -setSpaceQuota <N> <directory>...<directory>`
- `hdfs dfsadmin -clrSpaceQuota <directory>...<directory>`
- `hdfs dfsadmin -setSpaceQuota <N> -storageType <storagetype> <directory>...<directory>`
- `hdfs dfsadmin -clrSpaceQuota -storageType <storagetype> <directory>...<directory>`
- `hadoop fs -count -q [-h] [-v] [-t [comma-separated list of storagetypes]] <directory>...<directory>`

  ```
  Header Format for -count
  ```
  QUOTA REMAINING_QUOTA   SPACE_QUOTA REMAINING_SPACE_QUOTA
DIR_COUNT FILE_COUNT   CONTENT_SIZE FILE_NAME

Check Default Blocksize
hdfs getconf -confKey dfs.blocksize

Reference:

- http://hadoop.apache.org/docs/stable/hadoop-project-dist/hadoop-hdfs/HDFSCommands.html#fsck
- http://hadoop.apache.org/docs/stable/hadoop-project-dist/hadoop-hdfs/HdfsQuotaAdminGuide.html#Administrative_Commands
- https://www.cloudera.com/documentation/enterprise/5-8-x/topics/admin_heterogeneous_storage_oview.html
- http://hadoop.apache.org/docs/stable/hadoop-project-dist/hadoop-hdfs/ArchivalStorage.html
- https://issues.apache.org/jira/browse/HDFS-2832
- https://hadoop.apache.org/docs/r2.6.0/hadoop-project-dist/hadoop-hdfs/hdfs-default.xml
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