





National Institute of Electronics and Information Technology

Big Data and Hadoop Module 3-Starting with Hadoop





Hadoop Startup Scripts

The \${HADOOP_HOME}/sbin directory contains some scripts used to launch Hadoop DFS and Hadoop Map/Reduce daemons. These are:

Script Name	Purpose
start-dfs.sh	Starts the Hadoop DFS daemons, the namenode and
	datanodes. Use this before start-mapred.sh
stop-dfs.sh	Stops the Hadoop DFS daemons.
start-mapred.sh	Starts the Hadoop Map/Reduce daemons, the jobtracker and
	tasktrackers.
stop-mapred.sh	Stops the Hadoop Map/Reduce daemons.
start-all.sh	Starts all Hadoop daemons, the namenode, datanodes, the
	jobtracker and tasktrackers. Deprecated; use start-dfs.sh
	then start-mapred.sh
stop-all.sh	Stops all Hadoop daemons. Deprecated; use stop-mapred.sh
	then stop-dfs.sh

Start the Hadoop Cluster

First, start the NameNode and DataNode with the following command:

start-dfs.sh

You should get the following output:

Starting namenodes on [0.0.0.0]
Starting datanodes
Starting secondary namenodes [ubuntu2004]

Next, start the YARN resource and nodemanagers by running the following command:

start-yarn.sh

You should get the following output:

Starting resourcemanager Starting nodemanagers



Start the Hadoop Cluster

To check the Hadoop services are up and running use the following command:

jps

You should get the following output:

5047 NameNode

5850 Jps

5326 SecondaryNameNode

5151 DataNode



HDFS Basic Commands

SNo	Command & Description
1	-ls <path></path>
	Lists the contents of the directory specified by path, showing the names, permissions, owner, size and
	modification date for each entry.
2	-lsr <path></path>
	Behaves like -ls, but recursively displays entries in all subdirectories of path.
3	-du <path></path>
	Shows disk usage, in bytes, for all the files which match path; filenames are reported with the full HDFS
	protocol prefix.
4	-dus <path></path>
	Like -du, but prints a summary of disk usage of all files/directories in the path.
5	-mv <src><dest></dest></src>
	Moves the file or directory indicated by src to dest, within HDFS.
6	-cp <src> <dest></dest></src>
	Copies the file or directory identified by src to dest, within HDFS.
7	-rm <path></path>
	Removes the file or empty directory identified by path.
8	-rmr <path></path>
	Removes the file or directory identified by path. Recursively deletes any child entries (i.e., files or
	subdirectories of path).
9	-put <localsrc> <dest></dest></localsrc>
	Copies the file or directory from the local file system identified by localSrc to dest within the DFS.
10	-copyFromLocal <localsrc> <dest></dest></localsrc>
	Identical to -put