



HADOOP HDFS COMMANDS CHEATSHEET

LIST FILES	
hdfs dfs -ls /	List all the files/directories for the given hdfs destination path
hdfs dfs -ls -d /hadoop	Directories are listed as plain files. In this case, this command will list the details of hadoop folder
hdfs dfs -ls -h /data	Format file sizes in a human-readable fashion (eg 64.0m instead of 67108864)
hdfs dfs -ls -R /hadoop	Recursively list all files in hadoop directory and all subdirectories in hadoop directory
hdfs dfs -ls /hadoop/dat*	List all the files matching the pattern. In this case, it will list all the files inside hadoop directory which starts with 'dat'

READ/WRITE FILES	
hdfs dfs -text /hadoop/derby.log	HDFS Command that takes a source file and outputs the file in text format on the
	terminal. The allowed formats are zip and TextRecordInputStream
hdfs dfs -cat /hadoop/test	This command will display the content of the HDFS file test on your stdout
hdfs dfs -appendToFile	Appends the content of a local file test1 to a hdfs file test2
/home/ubuntu/test1/hadoop/text2	

UPLOAD/DOWNLOAD FILES	
hdfs dfs -put /home/ubuntu/sample /hadoop	Copies the file from local file system to HDFS
hdfs dfs -put -f /home/ubuntu/sample /hadoop	Copies the file from local file system to HDFS, and in case the local already exists in the given destination path, using -f option with put command will overwrite it
hdfs dfs -put -l /home/ubuntu/sample /hadoop	Copies the file from local file system to HDFS. Allow DataNode to lazily persist the file to disk. Forces replication factor of 1
hdfs dfs -put -p /home/ubuntu/sample /hadoop	Copies the file from local file system to HDFS. Passing -p preserves access and modification times, ownership and the mode
hdfs dfs -get /newfile /home/ubuntu/	Copies the file from HDFS to local file system
hdfs dfs -get -p /newfile /home/ubuntu/	Copies the file from HDFS to local file system. Passing -p preserves access and modification times, ownership and the mode
hdfs dfs -get /hadoop/*.txt	Copies all the files matching the pattern from local file system to HDFS
/home/ubuntu/	
hdfs dfs -copyFromLocal /home/ubuntu/sample /hadoop	Works similarly to the put command, except that the source is restricted to a local file reference
hdfs dfs -copyToLocal /newfile	Works similarly to the put command, except that the destination is restricted to a
/home/ubuntu/	local file reference
hdfs dfs -moveFromLocal	Works similarly to the put command, except that the source is deleted after it's

FILE MANAGEMENT	
hdfs dfs -cp /hadoop/file1 /hadoop1	Copies file from source to destination on HDFS. In this case, copying file1 from hadoop directory to hadoop1 directory
hdfs dfs -cp -p /hadoop/file1 /hadoop1	Copies file from source to destination on HDFS. Passing -p preserves access and modification times, ownership and the mode

copied

/home/ubuntu/sample /hadoop

hdfs dfs -cp -f /hadoop/file1 /hadoop1	Copies file from source to destination onHDFS. Passing -f overwrites the destination when if it already exists
hdfs dfs -mv /hadoop/file1 /hadoop1	Move files that match the specified file pattern <src> to a destination <dst>. When moving multiple files, the destination must be a directory</dst></src>
hdfs dfs -rm /hadoop/file1	Deletes the file (sends it to the trash)
hdfs dfs -rm -r /hadoop hdfs dfs -rm -R /hadoop hdfs dfs -rmr /hadoop	Deletes the directory and any content under it recursively
hdfs dfs -rm -skipTrash /hadoop	The -skipTrash option will bypass trash, if enabled, and delete the specified file(simmediately
hdfs dfs -rm -f /hadoop	If the file does not exist, do not display a diagnostic message or modify the exit status to reflect an error
hdfs dfs -rmdir /hadoop1	Delete a directory
hdfs dfs -mkdir /hadoop2	Create a directory in specified HDFS location
hdfs dfs -mkdir -f /hadoop2	Create a directory in specified HDFS location. This command does not fail even if the directory already exists
hdfs dfs -touchz /hadoop3	Creates a file of zero length at <path> with current time as the timestamp of that <path></path></path>

OWNERSHIP AND VALIDATION	
hdfs dfs -checksum /hadoop/file1	Dump checksum information for files that match the file pattern <src> to stdout</src>
hdfs dfs -chmod 755 /hadoop/file1	Changes permissions of the file
hdfs dfs -chmod -R 755 /hadoop	Changes permissions of the files recursively
hdfs dfs -chown ubuntu:ubuntu /hadoop	Changes owner of the file. 1st ubuntu in the command is owner and 2nd one is
	group
hdfs dfs -chown -R ubuntu:ubuntu	group Changes owner of the files recursively
hdfs dfs -chown -R ubuntu:ubuntu /hadoop	
/hadoop	Changes owner of the files recursively

FILESYSTEM	
hdfs dfs -df /hadoop	Shows the capacity, free and used space of the filesystem
hdfs dfs -df -h /hadoop	Shows the capacity, free and used space of the filesystemh parameter Formats the sizes of files in a human-readable fashion
hdfs dfs -du /hadoop/file	Show the amount of space, in bytes, used by the files that match the specified file pattern
hdfs dfs -du -s /hadoop/file	Rather than showing the size of each individual file that matches the pattern, shows the total (summary) size
hdfs dfs -du -h /hadoop/file	Show the amount of space, in bytes, used by the files that match the specified file pattern. Formats the sizes of files in a human-readable fashion

ADMINISTRATION	
hdfs balancer -threshold 30	Runs a cluster balancing utility. Percentage of disk capacity. This overwrites the default threshold
hadoop version	To check the version of Hadoop
hdfs fsck /	It checks the health of the Hadoop file system
hdfs dfsadmin -safemode leave	The command to turn off the safemode of NameNode
hdfs dfsadmin -refreshNodes	Re-read the hosts and exclude files to update the set of Datanodes that are allowed to connect to the Namenode and those that should be decommissioned or recommissioned
	Formats the NameNode Simple Smart Speed

hdfs namenode -format

