## **Hadoop HDFS Command 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 /home/ubuntu/test1 /hadoop/text2	Appends the content of a local file test1 to a hdfs file test2.	

Upload	d/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 exits 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.		
Blaisaissus E-prima dierfronteidan te	Copies the file from HDFS to local file system. Passing _p preserves assuration of the from hones to be needed by the from hones to be needed.		
hdfs_dfsget_/hadoop/*:txt-/hóme/ubúntu/	Copies all the files matching the pattern from HDFS to local file system		
hdfs dfs -copyFromLocal /home/u buntu/sample /hadoop	Works similarly to the put command, except that the source is restricted to a local file reference.		
hdfs dfs -copyToLocal /newfile /home/ubuntu/	Works similarly to the put command, except that the destination is restricted to a local file reference.		
hdfs dfs -moveFromLocal /home/ubuntu/sample /hadoop	Works similarly to the put command, except that the source is deleted after it's copied.		

	File Management					
hdfs dfs -cp /hadoop/file1/hadoop1			n source to destination on HDFS. In this case, copying op directory to hadoop1 directory.			
	hdfs dfs -cp -p	/hadoor	p/file1/hadoop1		n source to destination on HDFS. Passing -p preserves	I.
		hdfs:df	fs=cp=f#/hadoop/file1/hadoop1		Copies diletrom source to destination on HDFS: Rassing the destination if it already exists:	-froverwrite
		hdfs.df	fs-mv-/hadoop/file1 /hadoop1		Movestiles that match the specified file pattern sesse ≥ to <dst>. When moving multiple files, the destination must directory.</dst>	
		hdfs d	fs -rm /hadoop/file1		Deletes the file (sends it to the trash)	

hdfs dfs -rm -r /hado op hdfs dfs -rm -R /hado op hdfs dfs -rmr /hado op	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(s) immediately.
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 /hado op2	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 /hadoop	Changes owner of the files recursively.
hdfs dfs -chgrp ubuntu /hadoop	Changes group association of the file.
hdfs dfs -chgrp -R ubuntu /hadoop	Changes group association 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 vesrion 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 -refresh Nodes	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.
hdfs namenode -format	Formats the NameNode.