HDFS Commands: A. Hadoop Storage File System

The Hadoop Distributed File System (HDFS) is a distributed, scalable, and portable file system written in Java for the Hadoop framework. It is designed to store very large files across multiple machines in a reliable and faulttolerant manner. HDFS is a crucial component of Hadoop, providing highthroughput access to application data and is suitable for applications with large data sets.



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OP HDFS COMMANDS CHEATSHEET

ories for the given hdfs destination path

as plain files. In this case, this command will list the details of

juman-readable fashion (eg 64.0m instead of 67108864)

in hadoop directory and all subdirectories in hadoop

ing the pattern. In this case, it will list all the files inside ch starts with 'dat'

takes a source file and outputs the file in text format on the formats are zip and TextRecordInputStream

play the content of the HDFS file test on your stdout of a local file test1 to a hdfs file test2

cal file system to HDFS

ical file system to HDFS, and in case the local already exists in path, using -f option with put command will overwrite it ical file system to HDFS. Allow DataNode to lazily persist the lication factor of 1

cal file system to HDFS. Passing -p preserves access and wnership and the mode

DFS to local file system

DFS to local file system. Passing -p preserves access and wnership and the mode

tching the pattern from local file system to HDFS

put command, except that the source is restricted to a local

put command, except that the destination is restricted to a

put command, except that the source is deleted after it's

e to destination on HDFS. In this case, copying file1 from adoop1 directory

e to destination on HDFS. Passing -p preserves access and wnership and the mode

dfs dfs -rm -r /hadoop dfs dfs -rm -R /hadoop dfs dfs -rmr /hadoop	Deletes the di
dfs dfs -rm -skipTrash /hadoop	The -skipTrash immediately
dfs dfs -rm -f /hadoop	If the file does status to refle
dfs dfs -rmdir/hadoop1	Delete a direct
dfs dfs -mkdir /hadoop2	Create a direct
dfs dfs -mkdir -f /hadoop2	Create a direct the directory a
dfs dfs -touchz /hadoop3	Creates a file o

Copies file from destination wh

Move files tha When moving

Deletes the file

Changes group

Changes group

Shows the car

Shows the cap

Formats the si

Show the amo

Rather than sh

shows the total

Show the amo specified file p

Runs a cluster

default thresh To check the v It checks the h

The command

Re-read the ho allowed to cor decommission

Formats the N

file pattern

OWNERSHIP AND VALIDATION

hdfs dfs -cp -f /hadoop/file1 /hadoop1

hdfs dfs -mv /hadoop/file1 /hadoop1

hdfs dfs -rm /hadoop/file1

hdfs dfs -checksum /hadoop/file1	Dump checksu
hdfs dfs -chmod 755 /hadoop/file1	Changes perm
hdfs dfs -chmod -R 755 /hadoop	Changes perm
hdfs dfs -chown ubuntu:ubuntu /hadoop	Changes owne group
hdfs dfs -chown -R ubuntu:ubuntu /hadoop	Changes owne

hdfs dfs -chgrp ubuntu /hadoop hdfs dfs -chgrp -R ubuntu /hadoop

FILESYSTEM

hdfs dfs -df /hadoop
hdfs dfs -df -h /hadoop
hdfs dfs -du /hadoop/file
hdfs dfs -du -s /hadoop/fil

hdfs dfs -du -h /hadoop/file

ADMINISTRATION

hdfs balancer -threshold 30
hadoop version
hdfs fsck /
half- dfdo-bfd- b-

hdfs dfsadmin -safemode leave hdfs dfsadmin -refreshNodes

hdfs namenode -format

😉 Made with Gamma

Create a directory structure in HDFS

1 — Step 1: Accessing HDFS

In order to create a directory structure in HDFS, you first need to access the Hadoop Distributed File System using the appropriate commands and permissions.

2 — Step 2: Creating Directories

Once inside the HDFS, use the command hadoop fs -mkdir -p /user/your_username to create a directory structure, ensuring the -p flag is used for creating parent directories.

3 — Step 3: Verifying the Structure

After creating the directory structure, it's essential to verify that the directories have been created as intended. This can be done using the appropriate commands to list and navigate the HDFS.