

Week - 2

Local IP - 172.16.88.80: ^{Port}
8088 (HDFS)
9870 (Cluster)

Stand-Alone - Only Master

Pseudo-Based - Master and Slave have same IP address.

Fully Distributed - Master & Slave have different IP addresses

- Use prefix along with commands. [Mandatory]

Prefix $\left\{ \begin{array}{l} \text{hadoop fs -mkdir} \\ \text{hdfs dfs -mkdir} \end{array} \right.$

Commands

- ① gsd
Daemons running on ~~computer~~ slave
- ② hadoop version
Version of Hadoop - 3.3.4
- ③ hdfs dfs -mkdir /batch-3/200968048
Create a directory in Hadoop cluster.
- ④ hdfs dfs -copyFromLocal /home/hadoop/200968048.txt /batch-3/200968048
Copy file from local system to Hadoop cluster
- ⑤ hdfs dfs -copyToLocal /
Copy file to local system from Hadoop
Can also copy directory.

- ⑥ `hdfs dfs -ls /hatch-3`
List files in hadoop directory
- ⑦ `hdfs dfs -touchz /hatch-3/200968048/test`
Creates an empty file
- ⑧ `hdfs dfs -put /home/hadoop/test /hatch-3/200968048`
Copy files/folder from local file system to hdfs ~~source~~
- ⑨ `hdfs dfs -cat /hatch-3/200968048/test`
To print file contents
- ⑩ `hdfs dfs -get /hatch-3/200968048/test /home/hadoop`
To copy files/folders from hdfs to local system.
- ⑪ `hdfs dfs -cp /hatch-3/200968048/test /hatch-3`
To copy files within hdfs.
- ⑫ `hdfs dfs -mv /hatch-3/test /hatch-3/200968048`
To move files within hdfs
- ⑬ `hdfs dfs -rm -r /hatch-3/200968048/test`
To delete a file from HDFS recursively
- ⑭ `hdfs dfs -du /hatch-3`
To find size of each file in directory
- ⑮ `hdfs dfs -du -s /hatch-3`
Total size of directory/file
- ⑯ `hdfs dfs -stat /hatch-3`
Last modified time of directory/path

- (17) `hdfs dfs -setrep -R -w 6 /batch-3/200968048/test`
Change replication factor of a file
To change for directory remove (-w).
- (18) `hdfs dfs -ls /batch-3/200968048/200968048.txt`
Shows the last LKB of a file
- (19) `hdfs dfs -rm /batch-3/200968048/test`
Removes the single specified file
- (20) `hdfs dfs -df /batch-3`
Shows the capacity, size and free space available on HDFS.
- (21) `hdfs dfs -test -e /batch-3/200968048/fl.txt`
Returns 0 if file exists
- (22) `hdfs dfs -checksum /batch-3/200968048/fl.txt`
Returns the checksum information of a file.
- (23) `hdfs dfs -count /batch-3`
Counts the number of files, directories & bytes.
- (24) `hdfs dfs -getmerge /batch-3/200968048 /home/hadoop`
Merges a list of files in a directory on HDFS into a single local file.
- (25) `hdfs dfs -chmod -x /batch-3/200968048/fl.txt`
Changes the permission of a file.
- (26) `hdfs dfs -usage [command]`
Returns the help for an individual command

- (27) `hdfs dfs -help`
Shows help for all the commands
- (28) `hdfs dfs -appendToFile /home/hadoop/sample.txt`
/batch-3/200968048/200968048.txt
Appends the content of file `src` to destination
- (29) `hdfs dfs -find / -name fl.txt -print`
Finds all the files that match the specified expression
- (30) `hadoop classpath`
Prints the class path needed to get the Hadoop jar and the required libraries.
- (31) `hdfs dfs -expunge`
Empty the Trash
- (32) `hdfs dfs -moveFromLocal /home/hadoop/test /batch-3/200968048`
Moves the source file from local to HDFS.
- (33) `hdfs dfs -getfacl /batch-3/200968048`
Displays the access permissions of files and directories with name, owner, group and Access Control List.

Handwritten
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