#### Mapreduce

# export PATH=\$PATH:\$HADOOP\_HOME/bin:\$HADOOP\_HOME/sbin cd \$HADOOP\_HOME/sbin

#### ./start-all.sh

```
*Connection #0 to nost totalnost tert intact
hadoop@DESKTOP-07BKI3U:~/hadoop-3.4.0/sbin$ jps
33810 NodeManager
34884 Jps
33653 ResourceManager
32057 NameNode
32461 SecondaryNameNode
32239 DataNode
hadoop@DESKTOP-07BKI3U:~/hadoop-3.4.0/sbin$
```

### 1 hdfs dfs -mkdir /bigdata

```
hadoop@DESKTOP-07BKI3U:~/hadoop-3.4.0/sbin$ hdfs dfs -mkdir /Bigdata
mkdir: '/Bigdata': File exists
hadoop@DESKTOP-07BKI3U:~/hadoop-3.4.0/sbin$ hdfs dfs -ls /
Found 2 items
drwxr-xr-x - hadoop supergroup 0 2025-02-22 23:44 /Bigdata
drwxr-xr-x - hadoop supergroup 0 2025-02-22 23:41 /bigdata
hadoop@DESKTOP-07BKI3U:~/hadoop-3.4.0/sbin$
```

## 2 hdfs dfs -touchz/bigdata/input

```
hadoop@DESKTOP-07BKI3U:~/hadoop-3.4.0/sbin$ hdfs dfs -touchz /bigdata/input hadoop@DESKTOP-07BKI3U:~/hadoop-3.4.0/sbin$ hdfs dfs -ls /bigdata/
Found 1 items
-rw-r--r- 1 hadoop supergroup 0 2025-02-22 23:45 /bigdata/input hadoop@DESKTOP-07BKI3U:~/hadoop-3.4.0/sbin$
```

## 3 hdfs dfs -appendToFile -/bigdata/input

aaaaa bbbb cc aaaaa cc

cc bbbb zzzz ctrl+d ctrl+ d

```
hadoop@DESKTOP-07BKI3U:~/hadoop-3.4.0/sbin$ echo "aaaaa bbbb cc aaaaa cc\ncc bbbb zzzz" | hdfs dfs -appendToFile - /bigdata/input hadoop@DESKTOP-07BKI3U:~/hadoop-3.4.0/sbin$ hdfs dfs -cat /bigdata/input aaaaa bbbb cc aaaaa cc\ncc bbbb zzzz hadoop@DESKTOP-07BKI3U:~/hadoop-3.4.0/sbin$ |
```

# 5 cd \$HADOOP\_HOME

6 ls

```
hadoop@DESKTOP-07BKI3U:-/hadoop-3.4.0/sbin$ cd $HADOOP_HOME
hadoop@DESKTOP-07BKI3U:-/hadoop-3.4.0$ ls
LICENSE-txt NOTICE-binary LICENSE.txt NOTICE-binary NOTICE.txt README.txt bin etc include lib libexec licenses-binary logs sbin share
hadoop@DESKTOP-07BKI3U:-/hadoop-3.4.0$ |
```

7 cd share

8 *ls* 

9 cd Hadoop

10 ls

11 cd mapreduce

12 ls

hadoop-mapreduce-client-app-3.3.0.jar
hadoop-mapreduce-client-common-3.3.0.jar
hadoop-mapreduce-client-core-3.3.0.jar
hadoop-mapreduce-client-hs-3.3.0.jar
hadoop-mapreduce-client-hs-plugins-3.3.0.jar
hadoop-mapreduce-client-jobclient-3.3.0.jar
hadoop-mapreduce-client-jobclient-3.3.0-tests.jar
hadoop-mapreduce-client-nativetask-3.3.0.jar
hadoop-mapreduce-client-shuffle-3.3.0.jar
hadoop-mapreduce-client-uploader-3.3.0.jar
hadoop-mapreduce-examples-3.3.0.jar
jdiff
lib-examples

#### sources

```
hadooppDESHTOW-O7MELTULY-/Maddoop-3.4.0 0/sbin$ cd $HADOOD_HOME

LICENSC-binary LICENSC.txt MOTICE-binary NOTICE.txt README.txt bin etc include lib libexec licenses-binary logs sbin share hadooppDESHTOW-O7MELTULY-Madoop-3.4.0 5d share hadoopp share hadoopp share hadoopp share hadoopp share hadoopp share hadoopp-3.4.0 5d share hadoopp-3.
```

13 hadoop jar hadoop-mapreduce-examples-3.3.0.jar wordcount /bigdata /out

```
hadoop@015XTOP-O7MAINU: /hadop=3.4.//haxe/hadoop/sapeduce$ hadoop jar hadoop-mapreduce-examples=3.4.0.jar werdcount /bigdata /out 2028-09-20.2 230-60.0,300 IROO clark. DefaultHoMAMPRiloverProxyProvyder: Connecting to ResourceManager at /127.6.6.3:8892 2028-09-20.2 230-60.0,300 IROO mapreduce.obcimients in total input files to process: 1 for path: /twp/hadoop-yarn/staging/hadoop/.staging/job_1740244122322_0801 2028-09-20.2 230-60.0,300 IROO mapreduce.obcimients: number of splits: 1 2028-09-20.2 230-60.0,300 IROO mapreduce.obcimients: number of splits: 1 2028-09-20.2 230-60.0,300 IROO mapreduce.obcimients: number of splits: 1 2028-09-20.2 230-60.0,300 IROO mapreduce.obcimients: submitting tokens for job: job_174024122322_0801 2028-09-20.2 230-60.0,300 IROO mapreduce.obcimients: submitting tokens for job: job_174024122322_0801 2028-09-20.2 230-60.0,300 IROO mapreduce.obcimients: submitting tokens for job: job_174024122322_0801 2028-09-20.2 230-60.0,300 IROO mapreduce.obci new unit for severe-types.zeli. Job 2028-09-20.2 230-60.0,300 IROO mapreduce.obci new unit for job job.174024122322_0801 Job 2028-09-20.2 230-60.0,300 IROO mapreduce.obci new unit for job job.174024122322_0801 Job 2028-09-20.2 230-60.0,300 IROO mapreduce.obci new unit for job job.174024122322.0001 Job 2028-09-20.2 230-60.0,300 IROO mapreduce.obci new unit for job job.174024122322.0001 Job 2028-09-20.0,300 IROO mapreduce.obci new job job.174024122322.0001 Job 2028-09-20.0,300 IROO mapreduce.obci new job job.174024122322.0001 Job 2028-09-20.0,300 IROO mapreduce.obci new job job.174024122322.0001 Job 2028-09-2028-09-20.0,300 IROO mapreduce.obci new job job.174024122322.0001 Job 2028-09-20.0,300 IROO mapreduce.obci new job job.174024122322.0001 Job 2028-09-20.0,300 IROO mapreduce.obci new job job.174024122322.0001 Job 2028-09-20.0,300 IROO mapreduce.obci new job job job Job 2028-09-20.0,300 IROO mapreduce.obci new job job job Job 2028-09-20.0,300 IROO mapreduce.obci new job job Job 2028-09-20.0,300 IROO mapreduce.obci new job job Job 2028-09-20.0,300
```

## 14 hdfs dfs -ls /out

```
Found 2 items
```

```
Bytes written=36
hadoop@DESKTOP-07BKI3U:~/hadoop-3.4.0/share/hadoop/mapreduce$ hdfs dfs -ls /out
Found 2 items
-rw-r--r- 1 hadoop supergroup 0 2025-02-22 23:56 /out/_SUCCESS
-rw-r--r- 1 hadoop supergroup 36 2025-02-22 23:56 /out/part-r-00000
hadoop@DESKTOP-07BKI3U:~/hadoop-3.4.0/share/hadoop/mapreduce$
```

# 15 hdfs dfs -cat /out/part\*

 aaaaaa
 2

 bbbb
 2

 cc
 3

 zzzz
 1

```
hadoop@DESKTOP-07BKI3U:~/hadoop-3.4.0/share/hadoop/mapreduce$ hdfs dfs -cat /out/part*
aaaaa 2
bbbb 2
cc 1
cc\ncc 1
zzzz 1
hadoop@DESKTOP-07BKI3U:~/hadoop-3.4.0/share/hadoop/mapreduce$
```