

TP1 : Hadoop

Groupe : Amir Ayedi , Mahdi Menaa , Hamza Abdelbaki

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hadoop@hadoop-laptop:~$ hdfs dfs -ls -R -h /tmp
drwxr-x--- - hadoop supergroup      0 2012-12-25 02:51 /tmp/hadoop-yarn
drwxr-x--- - hadoop supergroup      0 2012-12-25 02:51 /tmp/hadoop-yarn/staging
drwxr-x--- - hadoop supergroup      0 2012-12-25 02:51 /tmp/hadoop-yarn/staging/history
drwxrwx--- - hadoop supergroup      0 2012-12-25 02:51 /tmp/hadoop-yarn/staging/history/done
drwxrwxrwt - hadoop supergroup      0 2012-12-25 02:51 /tmp/hadoop-yarn/staging/history/done_intermediate
drwxrwxrwt - hadoop supergroup      0 2012-12-25 02:51 /tmp/logs
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hadoop@hadoop-laptop:~$ hadoop fs -mkdir fichiers
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```
hadoop@hadoop-laptop:~$ gedit
^C
hadoop@hadoop-laptop:~$
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```
hadoop@hadoop-laptop:~$ hadoop fs -put /home/hadoop/bonjour.txt
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```
hadoop@hadoop-laptop:~$ hdfs dfs -put /home/hadoop/bonjour.txt
hadoop@hadoop-laptop:~$ hdfs dfs -ls
Found 10 items
drwxr-xr-x - hadoop supergroup      0 2022-10-06 05:43 EnsiGl3.txt
-rw-r--r-- 1 hadoop supergroup      8 2022-10-06 05:58 bonjour.txt
drwxr-xr-x - hadoop supergroup      0 2022-10-06 05:34 ensi
drwxr-xr-x - hadoop supergroup      0 2011-12-17 21:30 exercisel
drwxr-xr-x - hadoop supergroup      0 2022-10-06 05:53 fichiers
drwxr-xr-x - hadoop supergroup      0 2012-12-25 01:59 mostSeenLetter-oozieWorkflow
drwxr-xr-x - hadoop supergroup      0 2012-10-07 22:11 oozie-exercise-workflow
drwxr-xr-x - hadoop supergroup      0 2012-09-23 12:44 oozie-exercise-workflow-solution
drwxr-xr-x - hadoop supergroup      0 2012-12-25 02:01 oozie-hado
-rw-r--r-- 1 hadoop supergroup      9 2022-10-06 05:48 test.txt
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hadoop@hadoop-laptop:~$ hdfs dfs -rm bonjour.txt
Deleted bonjour.txt
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```
hadoop@hadoop-laptop:~$ hdfs dfs -put /home/hadoop/bonjour.txt
hadoop@hadoop-laptop:~$ hdfs dfs -ls
Found 10 items
drwxr-xr-x   - hadoop supergroup          0 2022-10-06 05:43 EnsiGl3.txt
-rw-r--r--   1 hadoop supergroup          8 2022-10-06 06:04 bonjour.txt
drwxr-xr-x   - hadoop supergroup          0 2022-10-06 05:34 ensi
drwxr-xr-x   - hadoop supergroup          0 2011-12-17 21:30 exercisel
drwxr-xr-x   - hadoop supergroup          0 2022-10-06 05:53 fichiers
drwxr-xr-x   - hadoop supergroup          0 2012-12-25 01:59 mostSeenLetter-oozi
eWorkflow
drwxr-xr-x   - hadoop supergroup          0 2012-10-07 22:11 oozie-exercise-work
flow
drwxr-xr-x   - hadoop supergroup          0 2012-09-23 12:44 oozie-exercise-work
flow-solution
drwxr-xr-x   - hadoop supergroup          0 2012-12-25 02:01 oozie-hado
-rw-r--r--   1 hadoop supergroup          9 2022-10-06 05:48 test.txt
hadoop@hadoop-laptop:~$ hdfs dfs -mv bonjour.txt fichiers
```

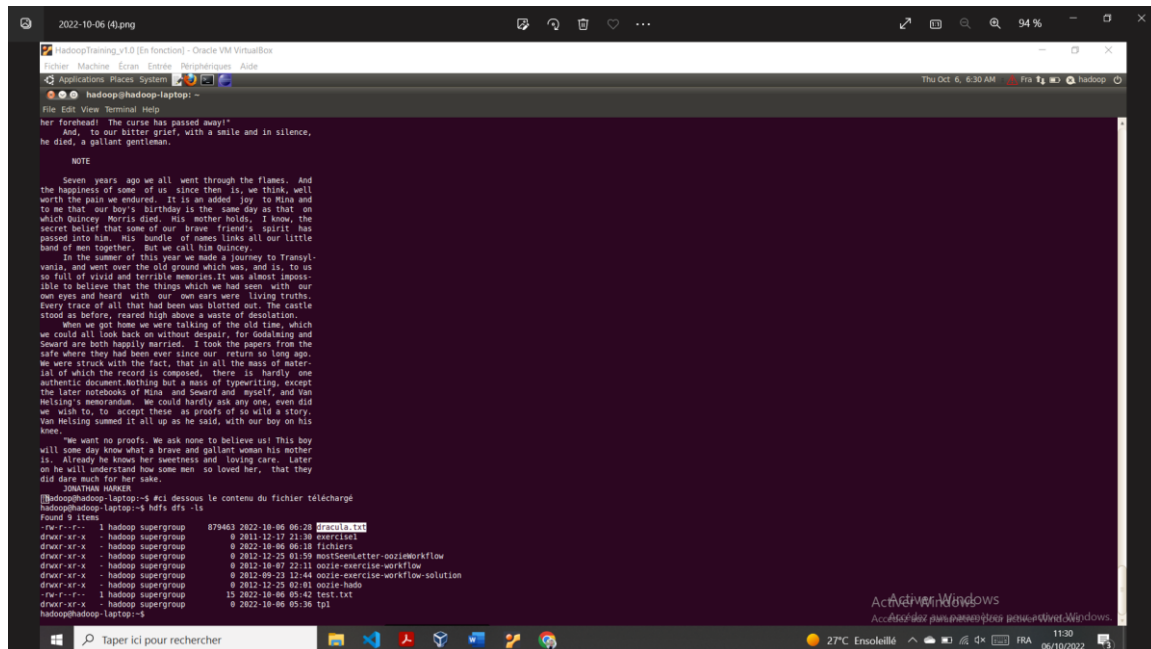
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```
hadoop@hadoop-laptop:~$ hdfs dfs -cp fichiers/bonjour.txt fichiers/salut.txt
hadoop@hadoop-laptop:~$ hdfs dfs -ls fichiers
Found 2 items
-rw-r--r--   1 hadoop supergroup          9 2022-10-06 06:12 fichiers/bonjour.txt
-rw-r--r--   1 hadoop supergroup          9 2022-10-06 06:18 fichiers/salut.txt
hadoop@hadoop-laptop:~$
```

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```
hadoop@hadoop-laptop:~$ hdfs dfs -count fichiers
      1      2      16 fichiers
hadoop@hadoop-laptop:~$ hdfs dfs -ls fichiers
Found 2 items
-rw-r--r--   1 hadoop supergroup          8 2022-10-06 06:04 fichiers/bonjour.tx
t
-rw-r--r--   1 hadoop supergroup          8 2022-10-06 06:15 fichiers/salut.txt
```

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```
hadoop@hadoop-laptop:~$ hdfs dfs -ls
Found 10 items
drwxr-xr-x - hadoop supergroup 0 2022-10-06 05:43 EnsiGl3.txt
-rw-r--r-- 1 hadoop supergroup 879463 2022-10-06 06:22 drac.txt
drwxr-xr-x - hadoop supergroup 0 2022-10-06 05:34 ensi
drwxr-xr-x - hadoop supergroup 0 2011-12-17 21:30 exercisel
drwxr-xr-x - hadoop supergroup 0 2022-10-06 06:16 fichiers
drwxr-xr-x - hadoop supergroup 0 2012-12-25 01:59 mostSeenLetter-oozi
eWorkflow
drwxr-xr-x - hadoop supergroup 0 2012-10-07 22:11 oozie-exercise-work
flow
drwxr-xr-x - hadoop supergroup 0 2012-09-23 12:44 oozie-exercise-work
flow-solution
drwxr-xr-x - hadoop supergroup 0 2012-12-25 02:01 oozie-hado
-rw-r--r-- 1 hadoop supergroup 9 2022-10-06 05:48 test.txt
```

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```
hadoop@hadoop-laptop:~$ hdfs fsck /user/hadoop/drac.txt -files -blocks
Connecting to namenode via http://localhost:50070
FSCK started by hadoop (auth:SIMPLE) from /127.0.0.1 for path /user/hadoop/drac.
txt at Thu Oct 06 06:22:54 EDT 2022
/user/hadoop/drac.txt 879463 bytes, 1 block(s): OK
0. BP-1360466951-127.0.1.1-1333127986871:blk_-2453775463513740094_27442 len=8794
63 repl=1

Status: HEALTHY
Total size: 879463 B
Total dirs: 0
Total files: 1
Total blocks (validated): 1 (avg. block size 879463 B)
Minimally replicated blocks: 1 (100.0 %)
Over-replicated blocks: 0 (0.0 %)
Under-replicated blocks: 0 (0.0 %)
Mis-replicated blocks: 0 (0.0 %)
Default replication factor: 1
Average block replication: 1.0
Corrupt blocks: 0
Missing replicas: 0 (0.0 %)
Number of data-nodes: 1
Number of racks: 1
FSCK ended at Thu Oct 06 06:22:54 EDT 2022 in 1 milliseconds

The filesystem under path '/user/hadoop/drac.txt' is HEALTHY
```