

REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET POPULAIRE
MINISTERE DE L'ENSEIGNEMENT SUPERIEUR ET DE LA
RECHERCHE SCIENTIFIQUE

UNIVERSITE BADJI MOKHTAR ANNABA
FACULTE DES SCIENCES DE L'INGENIORAT
DEPARTEMENT INFORMATIQUE

HADOOP MAPREDUCE

Master : Gestion et Analyse des Données Massives (GADM)

2^{me} année

Dr. Klai Sihem

TABLE DES MATIÈRES

TABLE DES MATIÈRES	2
LISTE DES FIGURES	3
A ANNEXES	1
A.1 TPN°3 : SE FAMILIARISER AVEC LES COMMANDES HDFS	2

LISTE DES FIGURES

A.1	Commande hdfs	2
A.2	Commande hdfs dfs	3
A.3	Commande hdfs dfs -cat appel-T.txt	3
A.4	Commande hdfs dfs -put *.txt entree	4
A.5	Commande hdfs dfs -rm in.txt	4
A.6	Commande hdfs dfs -mkdir entree	5

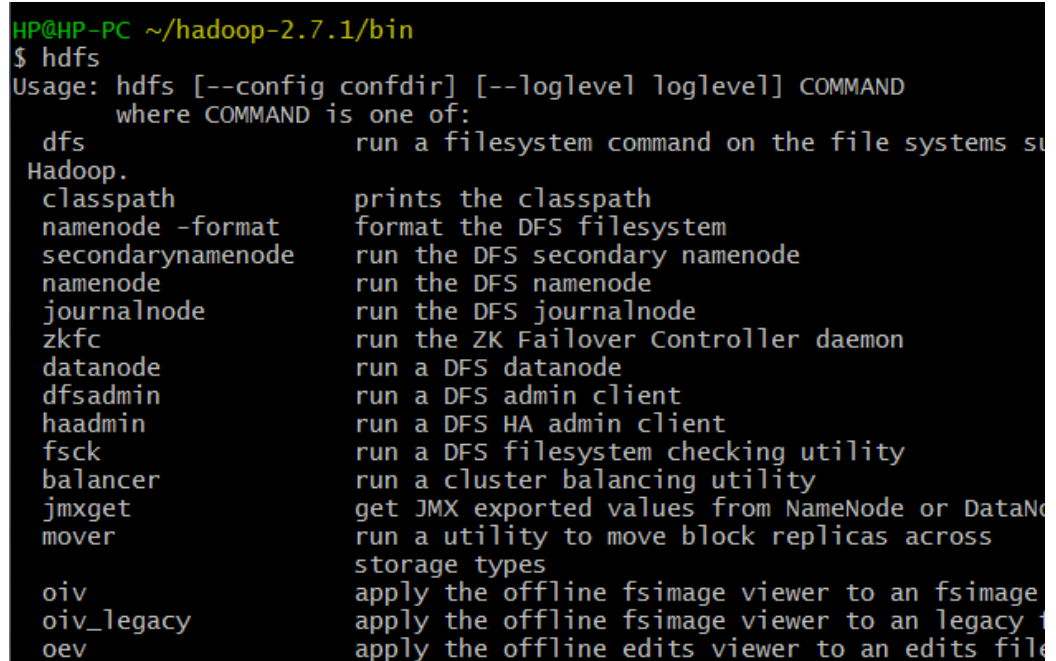
ANNEXES

A

A.1 TPN°3 : SE FAMILIARISER AVEC LES COMMANDES HDFS

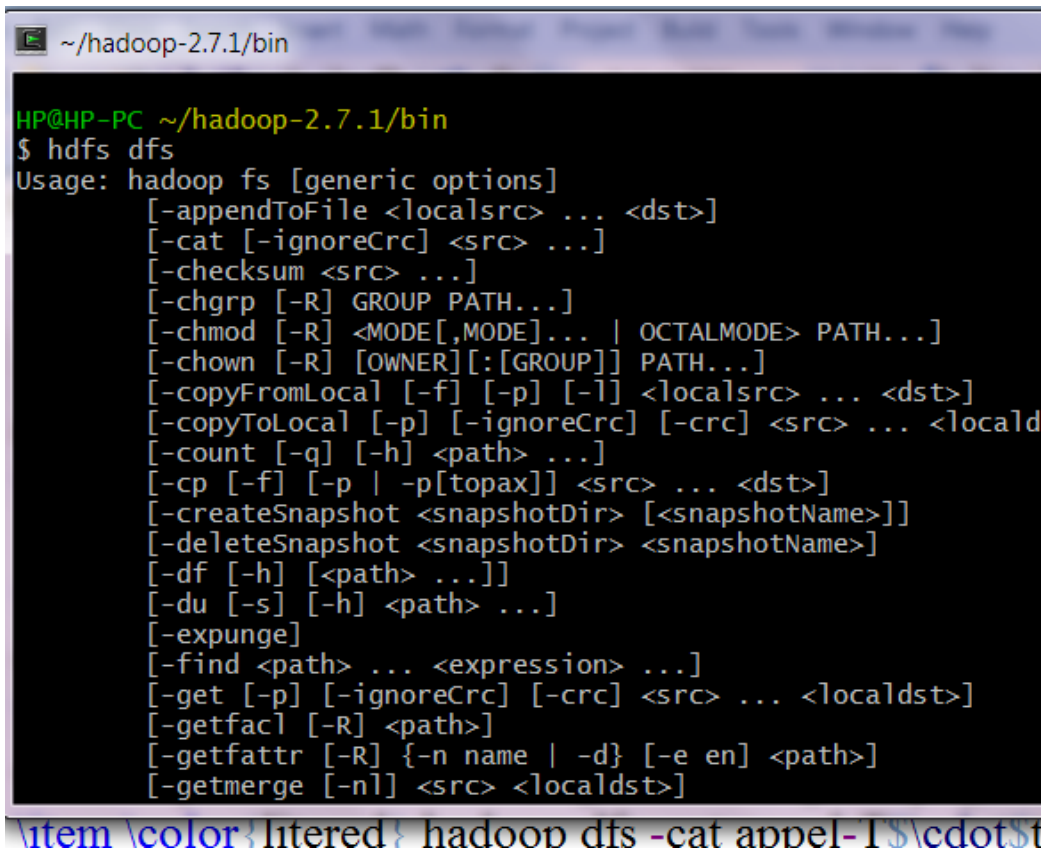
Ouvrez le prompt Cygwin et tapez les commandes suivantes :

- `hdfs` : permet d'afficher les commandes associées à hdfs, figure A.1
- `hdfs dfs` : permet d'afficher les commandes du nouveau système de fichier mis à notre disposition, figure A.2
- `hdfs dfs -cat appel-T.txt` : permet d'afficher le contenu du fichier "appel-T".txt, figure A.3
- `hdfs dfs -put *.txt entree` : permet de copier les fichiers ".txt" dans le répertoire "entree" A.4
- `hdfs dfs -rm in.txt` : permet de supprimer le fichier "in.txt" A.5
- `hdfs dfs -mkdir entree` : permet de créer le répertoire "entree", puis tapez `ls` pour vérifier que le dossier "entree" est créé, figure A.6
- d'autres commandes seront testées pendant le TP.



```
HP@HP-PC ~/hadoop-2.7.1/bin
$ hdfs
Usage: hdfs [--config confdir] [--loglevel loglevel] COMMAND
       where COMMAND is one of:
    dfs                run a filesystem command on the file systems su
Hadoop.
  classpath            prints the classpath
  namenode -format     format the DFS filesystem
  secondarynamenode   run the DFS secondary namenode
  namenode             run the DFS namenode
  journalnode         run the DFS journalnode
  zkfc                run the ZK Failover Controller daemon
  datanode            run a DFS datanode
  dfsadmin            run a DFS admin client
  haadmin             run a DFS HA admin client
  fsck               run a DFS filesystem checking utility
  balancer           run a cluster balancing utility
  jmxget            get JMX exported values from NameNode or DataNode
  mover            run a utility to move block replicas across
                  storage types
  oiv              apply the offline fsimage viewer to an fsimage
  oiv_legacy       apply the offline fsimage viewer to an legacy fsimage
  oev             apply the offline edits viewer to an edits file
```

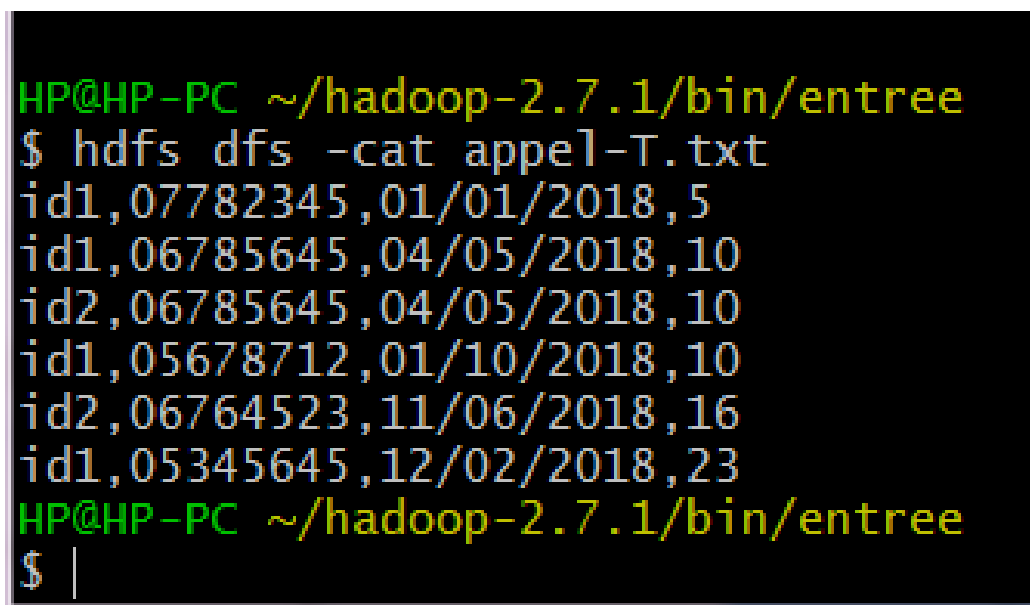
FIGURE A.1 – Commande `hdfs`



```

~/hadoop-2.7.1/bin
HP@HP-PC ~/hadoop-2.7.1/bin
$ hdfs dfs
Usage: hadoop fs [generic options]
    [-appendToFile <localsrc> ... <dst>]
    [-cat [-ignoreCrc] <src> ...]
    [-checksum <src> ...]
    [-chgrp [-R] GROUP PATH...]
    [-chmod [-R] <MODE[,MODE]... | OCTALMODE> PATH...]
    [-chown [-R] [OWNER][:[GROUP]] PATH...]
    [-copyFromLocal [-f] [-p] [-l] <localsrc> ... <dst>]
    [-copyToLocal [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]
    [-count [-q] [-h] <path> ...]
    [-cp [-f] [-p | -p[topax]] <src> ... <dst>]
    [-createSnapshot <snapshotDir> [<snapshotName>]]
    [-deleteSnapshot <snapshotDir> <snapshotName>]
    [-df [-h] [<path> ...]]
    [-du [-s] [-h] <path> ...]
    [-expunge]
    [-find <path> ... <expression> ...]
    [-get [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]
    [-getfacl [-R] <path>]
    [-getfattr [-R] {-n name | -d} [-e en] <path>]
    [-getmerge [-n] <src> <localdst>]

```

FIGURE A.2 – Commande `hdfs dfs`


```

~/hadoop-2.7.1/bin/entree
HP@HP-PC ~/hadoop-2.7.1/bin/entree
$ hdfs dfs -cat appel-T.txt
id1,07782345,01/01/2018,5
id1,06785645,04/05/2018,10
id2,06785645,04/05/2018,10
id1,05678712,01/10/2018,10
id2,06764523,11/06/2018,16
id1,05345645,12/02/2018,23
HP@HP-PC ~/hadoop-2.7.1/bin/entree
$ |

```

FIGURE A.3 – Commande `hdfs dfs -cat appel-T.txt`

```

HP@HP-PC ~/hadoop-2.7.1/bin/entree
$ cd ..

HP@HP-PC ~/hadoop-2.7.1/bin
$ hdfs dfs -put *.txt entree

HP@HP-PC ~/hadoop-2.7.1/bin
$ cd entree

HP@HP-PC ~/hadoop-2.7.1/bin/entree
$ ls
appel-T.txt  input.txt  triple.txt  youtubedata.txt
in.txt       Sortie.txt  uber.txt

HP@HP-PC ~/hadoop-2.7.1/bin/entree
$ |

```

FIGURE A.4 – Commande `hdfs dfs -put *.txt entree`

```

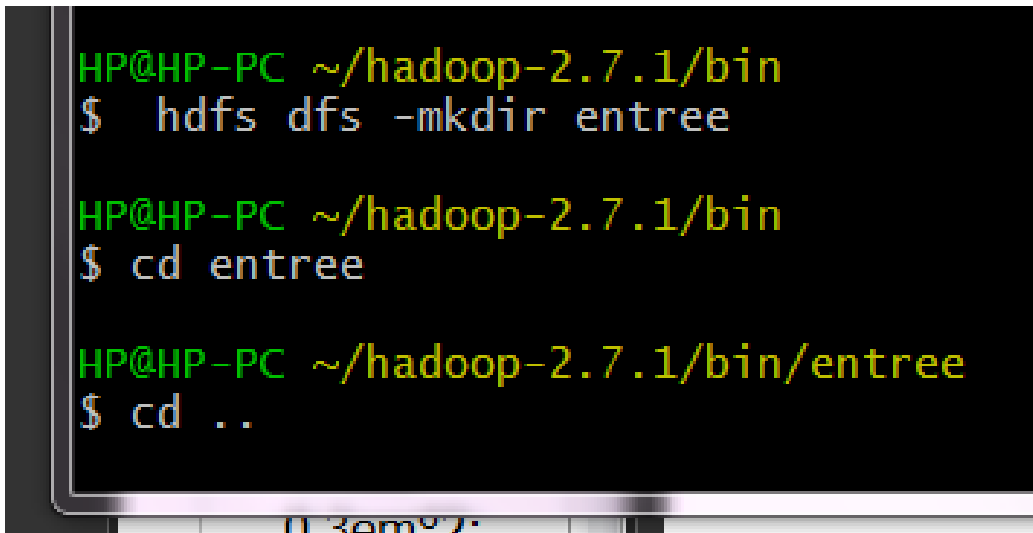
HP@HP-PC ~/hadoop-2.7.1/bin/entree
$ hdfs dfs -rm in.txt
19/03/22 09:15:44 INFO Configuration.deprecated. Instead, use dfs.bytes-per-checksum
19/03/22 09:15:44 INFO fs.TrashPolicyDefault: operation interval = 0 minutes, Empty interval =
Deleted in.txt

HP@HP-PC ~/hadoop-2.7.1/bin/entree
$ ls
appel-T.txt  input.txt  Sortie.txt  triple.txt

HP@HP-PC ~/hadoop-2.7.1/bin/entree
$ |

```

FIGURE A.5 – Commande `hdfs dfs -rm in.txt`

A terminal window with a black background and yellow/green text. The prompt is 'HP@HP-PC ~/hadoop-2.7.1/bin'. The first command is '\$ hdfs dfs -mkdir entree'. The second command is '\$ cd entree'. The third command is '\$ cd ..'.

```
HP@HP-PC ~/hadoop-2.7.1/bin
$ hdfs dfs -mkdir entree

HP@HP-PC ~/hadoop-2.7.1/bin
$ cd entree

HP@HP-PC ~/hadoop-2.7.1/bin/entree
$ cd ..
```

FIGURE A.6 – *Commande hdfs dfs -mkdir entree*

BIBLIOGRAPHIE