BDA Experiment 1

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\$ hadoop fs -ls
 It will list available files

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Σ
 File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hadoop fs -ls /
Found 10 items

      supergroup
      0 2024-07-18 22:22 /bda

      supergroup
      0 2017-10-23 09:15 /benchmark

      supergroup
      0 2024-07-18 22:22 /cloudera

      supergroup
      0 2024-07-14 23:29 /dezyre

      supergroup
      0 2024-07-28 22:34 /hbase

      solr
      0 2017-10-23 09:18 /solr

      supergroup
      0 2024-07-14 22:17 /tmp

      supergroup
      0 2017-10-23 09:17 /var

drwxr-xr-x - cloudera supergroup
                                                                    0 2024-07-18 03:31 /607
drwxr-xr-x - cloudera supergroup
drwxrwxrwx - hdfs
                                                                             0 2017-10-23 09:15 /benchmarks
drwxr-xr-x - cloudera supergroup
drwxr-xr-x - hdfs supergroup
drwxr-xr-x - hbase
                                    supergroup
drwxr-xr-x - solr
drwxrwxrwt - hdfs
drwxr-xr-x - hdfs
drwxr-xr-x - hdfs
[cloudera@quickstart ~]$
```

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Σ
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hadoop fs -ls
Found 7 items
drwxr-xr-x - cloudera cloudera
                                         0 2024-07-18 03:31 607
drwxr-xr-x - cloudera cloudera
                                         0 2024-07-14 22:45 dezvre
drwxr-xr-x - cloudera cloudera
                                       0 2024-07-14 23:35 dezyre1
drwxr-xr-x - cloudera cloudera
                                       0 2024-07-15 22:24 dezyrel
drwxr-xr-x - cloudera cloudera
                                       0 2024-07-18 03:27 khushboo
                                        0 2024-07-18 03:26 lord

    cloudera cloudera

drwxr-xr-x
drwxr-xr-x

    cloudera cloudera

                                         0 2024-07-18 03:19 satshil
[cloudera@quickstart ~]$
```

\$ hadoop fs –usage ls
 It gives options used with particular hdfs command

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[cloudera@quickstart ~]$ hadoop fs -usage ls

Usage: hadoop fs [generic options] -ls [-C] [-d] [-h] [-q] [-R] [-t] [-S] [-r] [-u] [<path> ...]

[cloudera@quickstart ~]$ 

[cloudera@quickstart ~]$
```

\$ hadoop fs -help ls
 Lists usage information along with options

```
Σ
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hadoop fs -help ls
-ls [-C] [-d] [-h] [-q] [-R] [-t] [-S] [-r] [-u] [<path> ...] :
 List the contents that match the specified file pattern. If path is not
 specified, the contents of /user/<currentUser> will be listed. For a directory a
 list of its direct children is returned (unless -d option is specified).
 Directory entries are of the form:
       permissions - userId groupId sizeOfDirectory(in bytes)
 modificationDate(yyyy-MM-dd HH:mm) directoryName
 and file entries are of the form:
       permissions numberOfReplicas userId groupId sizeOfFile(in bytes)
 modificationDate(yyyy-MM-dd HH:mm) fileName
   -C Display the paths of files and directories only.
   -d Directories are listed as plain files.
   -h Formats the sizes of files in a human-readable fashion
       rather than a number of bytes.
   -q Print ? instead of non-printable characters.
   -R Recursively list the contents of directories.

    -t Sort files by modification time (most recent first).

   -S Sort files by size.
   -r Reverse the order of the sort.
   -u Use time of last access instead of modification for
       display and sorting.
[cloudera@quickstart ~]$
```

• \$ hadoop fs —help

To figure out all the available hadoop commands

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File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hadoop fs -help
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] [-v] [-x] <path> ...]
        [-cp [-f] [-p | -p[topax]] <src> ... <dst>]
        [-createSnapshot <snapshotDir> [<snapshotName>]]
        [-deleteSnapshot <snapshotDir> <snapshotName>]
        [-df [-h] [<path> ...]]
        [-du [-s] [-h] [-x] <path> ...]
        [-expunge]
        [-find <path> ... <expression> ...]
        [-get [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]
        [-getfacl [-R] <path>]
        [-getfattr [-R] {-n name | -d} [-e en] <path>]
        [-getmerge [-nl] <src> <localdst>]
        [-help [cmd ...]]
        [-ls [-C] [-d] [-h] [-q] [-R] [-t] [-S] [-r] [-u] [<path> ...]]
        [-mkdir [-p] <path> ...]
        [-moveFromLocal <localsrc> ... <dst>]
        [-moveToLocal <src> <localdst>]
        [-mv <src> ... <dst>]
        [-put [-f] [-p] [-l] <localsrc> ... <dst>]
        [-renameSnapshot <snapshotDir> <oldName> <newName>]
        [-rm [-f] [-r|-R] [-skipTrash] <src> ...]
        [-rmdir [--ignore-fail-on-non-empty] <dir> ...]
        [-setfacl [-R] [{-b|-k} {-m|-x <acl_spec>} <path>]|[--set <acl_spec> <path>]]
        [-setfattr {-n name [-v value] | -x name} <path>]
        [-setrep [-R] [-w] <rep> <path> ...]
        [-stat [format] <path> ...]
        [-tail [-f] <file>]
        [-test -[defsz] <path>]
        [-text [-ignoreCrc] <src> ...]
        [-touchz <path> ...]
        [-usage [cmd ...]]
appendToFile <localsrc> ... <dst> :
 Appends the contents of all the given local files to the given dst file. The dst
 file will be created if it does not exist. If <localSrc> is -, then the input is
 read from stdin.
 cat [-ignoreCrc] <src> ... :
 Fetch all files that match the file pattern src> and display their content on
 stdout.
 checksum <src> ... :
```

\$ hadoop fs -mkdir /user/cloudera/DF
 To create new directory

```
File Edit View Search Terminal Help

[cloudera@quickstart ~]$ hadoop fs -mkdir /user/cloudera/DF

[cloudera@quickstart ~]$
```

\$ hadoop fs -ls -R /user/cloudera
 Returns all available files and subdirectories

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File Edit View Search Terminal Help

[cloudera@quickstart ~]$ hadoop fs -ls -R /user/cloudera
drwxr-xr-x - cloudera cloudera
```

\$ sudo -u hdfs hadoop fs -mkdir /DF
 This will create a new directory named 'DF'

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File Edit View Search Terminal Help

[cloudera@quickstart ~]$ sudo -u hdfs hadoop fs -mkdir /DF

[cloudera@quickstart ~]$
```

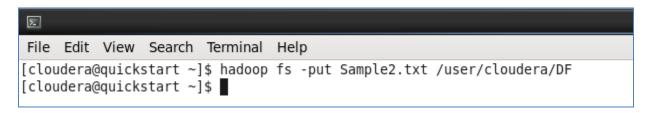
 \$ hadoop fs -copyFromLocal Sample1.txt /user/cloudera/DF Copy/Upload Sample1.txt

\$ ls
 List all files present in the directory



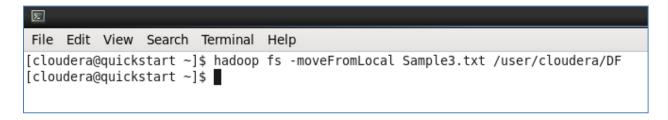


 \$ hadoop fs -copyFromLocal Sample2.txt /user/cloudera/DF Copy/Upload Sample2.txt





 \$ hadoop fs -moveFromLocal Sample3.txt /user/cloudera/DF Move Sample3.txt



\$ hadoop fs -du /user/cloudera/DF
 Display the disk usage for all files

```
File Edit View Search Terminal Help

[cloudera@quickstart ~]$ hadoop fs -du /user/cloudera/DF

0 0 /user/cloudera/DF/Sample1.txt

0 0 /user/cloudera/DF/Sample2.txt

0 0 /user/cloudera/DF/Sample3.txt

[cloudera@quickstart ~]$
```

\$ hadoop fs -df
 Display disk usage of current hadoop system

```
File Edit View Search Terminal Help

[cloudera@quickstart ~]$ hadoop fs -df

Filesystem Size Used Available Use%
hdfs://quickstart.cloudera:8020 58531520512 872693760 45699610433 1%

[cloudera@quickstart ~]$ ■
```

• \$ hadoop fs –expunge
It empties the trash by deleting all the files

