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## **Experiment 1**

\$ hadoop fs -1s
 It will list available files

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

    cloudera supergroup

                                           0 2024-07-18 03:31 /607
drwxr-xr-x - cloudera supergroup
                                           0 2024-07-18 22:22 /bda
                       supergroup
                                           0 2017-10-23 09:15 /benchmarks
drwxrwxrwx - hdfs
drwxr-xr-x - cloudera supergroup
                                           0 2024-07-18 22:22 /cloudera
drwxr-xr-x - hdfs
                       supergroup
                                           0 2024-07-14 23:29 /dezyre
                                           0 2024-07-28 22:34 /hbase
drwxr-xr-x
           - hbase
                       supergroup
drwxr-xr-x
           - solr
                       solr
                                           0 2017-10-23 09:18 /solr
           - hdfs
                       supergroup
                                           0 2024-07-14 22:17 /tmp
drwxrwxrwt
drwxr-xr-x - hdfs
                       supergroup
                                           0 2017-10-23 09:17 /user
drwxr-xr-x
            - hdfs
                       supergroup
                                           0 2017-10-23 09:17 /var
[cloudera@quickstart ~]$
```

```
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 dezyre
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
drwxr-xr-x
             - cloudera cloudera
                                         0 2024-07-18 03:26 lord
             - cloudera cloudera
                                         0 2024-07-18 03:19 satshil
drwxr-xr-x
[cloudera@quickstart ~]$
```

\$ hadoop fs -usage 1s
 It gives options used with particular hdfs command

```
File Edit View Search Terminal Help

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

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

[cloudera@quickstart ~]$
```

\$ hadoop fs -help
 To figure out all the available hadoop commands

```
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hadoop fs -help
Usage: hadoop fs [generic options]
               [-appendToFile <localsrc> ... <dst>]
                 -cat [-ignoreCrc] <src> ...]
              [-cat [-ignoreCrc] <src> ...]
[-checksum <src> ...]
[-checksum <src> ...]
[-chgrp [-R] GROUP PATH...]
[-chmod [-R] <MODE[,MODE]... | OCTALMODE> PATH...]
[-chown [-R] [OWNER][:[GROUP]] PATH...]
[-copyFromLocal [-f] [-p] [-l] <localsrc> ... <dst>]
[-copyFromLocal [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]
[-count [-q] [-h] [-v] [-x] <path> ...]
[-cp [-f] [-p | -p[topax]] <src> ... <dst>]
[-createSnapshot <snapshotDir> (snapshotName>]]
[-deleteSnapshot <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] -getfacl [-R] -getfact [-R] {-n name | -d} [-e en] <path>]
-getmerge [-nl] <src> <localdst>]
               [-help [cmd ...]]
[-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>]
              [-renamesnapsnot <snapsnotulr> <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> ...]
[-stat [fl.fi]
               [-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 -help ls
 Lists usage information along with options

```
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 -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

```
cloudera
   File Edit View Search Terminal Help
 [cloudera@quickstart ~]$ hadoop fs -ls -R /user/cloudera
 drwxr-xr-x - cloudera cloudera
                                                                                                                                                                              0 2024-07-18 03:31 /user/cloudera/607

    cloudera cloudera

                                                                                                                                                                             0 2024-07-14 22:45 /user/cloudera/dezyre
 drwxr-xr-x
 drwxr-xr-x - cloudera cloudera
                                                                                                                                                                             0 2024-07-14 23:35 /user/cloudera/dezyre1
-rw-r--r- 1 cloudera cloudera drwxr-xr-x - cloudera cloudera drwxr-xr-x - cloudera cloudera - cloudera cloudera drwxr-xr-x - cloudera cloudera - cloudera
 drwxr-xr-x - cloudera cloudera
                                                                                                                                                                            0 2024-07-18 03:26 /user/cloudera/lord
                                                    - cloudera cloudera
 drwxr-xr-x
                                                                                                                                                                            0 2024-07-18 03:19 /user/cloudera/satshil
 [cloudera@quickstart ~]$
```

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

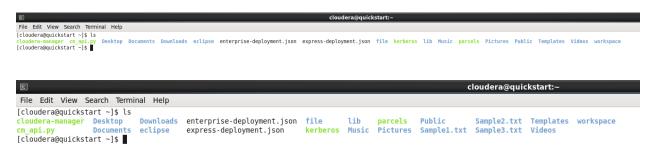
```
File Edit View Search Terminal Help

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

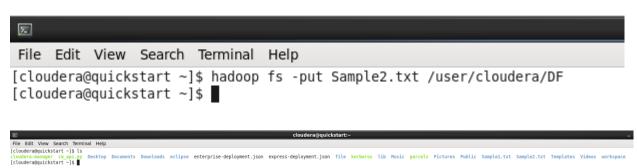
 \$ hadoop fs -copyFromLocal Sample1.txt /user/cloudera/DF Copy/Upload Sample1.txt



\$ 1s
 List all files present in the directory



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

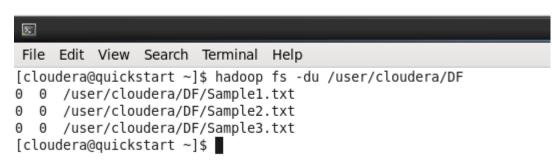


 \$ hadoop fs -moveFromLocal Sample3.txt /user/cloudera/DF
 Move Sample3.txt

```
File Edit View Search Terminal Help

[cloudera@quickstart ~]$ hadoop fs -moveFromLocal Sample3.txt /user/cloudera/DF
[cloudera@quickstart ~]$
```

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



\$ 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

```
File Edit View Search Terminal Help

[cloudera@quickstart ~]$ hadoop fs -expunge
[cloudera@quickstart ~]$
```