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Section: 04

- 1) **pwd (Print Working Directory):** Displays the current working directory, showing the full path of the directory you are in.

```
[cloudera@quickstart ~]$ pwd
/home/cloudera
```

- 2) **ls (List Files):** Lists the contents of a directory, including files and subdirectories.

```
[cloudera@quickstart ~]$ ls
bdtsec03      Documents      kerberos      Pictures      Videos
cloudera-manager Downloads      lib           Public        workspace
cm_api.py     eclipse        Music         Templates
Desktop       enterprise-deployment.json parcels        testdir
```

- 3) **cd (Change Directory):** Changes the current directory. You can navigate to other directories by specifying their path.

```
[cloudera@quickstart ~]$ cd Documents
[cloudera@quickstart Documents]$
```

- 4) **cat(Concatenation):** Concatenates and displays the content of files. It can be used to view, create, or append text to files.

```
[cloudera@quickstart ~]$ cat enterprise-deployment.json
```



```
cloud
File Edit View Search Terminal
{"peers": [],
 "users": [
   {
     "name": "cloudera",
     "password": "cloudera",
     "roles": [
       "ROLE_ADMIN"
     ]
   },
   {
     "name": "admin",
     "password": "admin",
     "roles": [
       "ROLE_ADMIN"
     ]
   }
 ]
}
```

- 5) **mkdir(make directory)**: Creates a new directory with the specified name.

```
[cloudera@quickstart ~]$ mkdir chloetee
[cloudera@quickstart ~]$ ls
bdtsec03      Desktop      enterprise-deployment.json  parcels      testdir
chloetee      Documents    kerberos                Pictures     Videos
cloudera-manager Downloads    lib                    Public      workspace
cm_api.py     eclipse_     Music                  Templates
```

- 6) **hadoop version**: Displays the installed version of Hadoop.

```
[cloudera@quickstart ~]$ hadoop version
Hadoop 2.6.0-cdh5.10.0
Subversion http://github.com/cloudera/hadoop -r 307b3de961d083f6e8ee80ddba589f22
cacd3662
Compiled by jenkins on 2017-01-20T20:12Z
Compiled with protoc 2.5.0
From source with checksum 9ee56c2ef46d6f9fae2f8b199c0e2c9
This command was run using /usr/lib/hadoop/hadoop-common-2.6.0-cdh5.10.0.jar
```

7) hdfs fsck / : check the health of the Hadoop file system.

```
[cloudera@quickstart ~]$ hdfs fsck /
Connecting to namenode via http://quickstart.cloudera:50070
FSCK started by cloudera (auth:SIMPLE) from /192.168.56.101 for path / at Mon Oct 14 01:59:19 PDT 2024
..
/hbase/data/hbase/meta/.tabledesc/.tableinfo.0000000001: CORRUPT blockpool BP-171906535-127.0.0.1-1491391569011 block blk_1073742696

/hbase/data/hbase/meta/.tabledesc/.tableinfo.0000000001: MISSING 1 blocks of total size 372 B..
/hbase/data/hbase/meta/1588230740/.regioninfo: CORRUPT blockpool BP-171906535-127.0.0.1-1491391569011 block blk_1073742695

/hbase/data/hbase/meta/1588230740/.regioninfo: MISSING 1 blocks of total size 32 B...
/hbase/hbase.id: CORRUPT blockpool BP-171906535-127.0.0.1-1491391569011 block blk_1073742694

/hbase/hbase.id: MISSING 1 blocks of total size 42 B..
/hbase/hbase.version: CORRUPT blockpool BP-171906535-127.0.0.1-1491391569011 block blk_1073742693

/hbase/hbase.version: MISSING 1 blocks of total size 7 B.....
.....
.....
.....
.....
s: CORRUPT
Total size:      800475450 B
Total dirs:      61
Total files:     875
Total symlinks:   0
Total blocks (validated): 873 (avg. block size 916924 B)
*****
UNDER MIN REPL'D BLOCKS: 4 (0.45819014 %)
dfs.namenode.replication.min: 1
CORRUPT FILES: 4
MISSING BLOCKS: 4
MISSING SIZE: 453 B
CORRUPT BLOCKS: 4
*****
Minimally replicated blocks: 869 (99.54181 %)
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: 0.9954181
Corrupt blocks: 4
Missing replicas: 0 (0.0 %)
Number of data-nodes: 1
Number of racks: 1
FSCK ended at Mon Oct 14 01:59:20 PDT 2024 in 279 milliseconds

The filesystem under path '/' is CORRUPT
```

8) `hdfs dfs -ls /` : display the list of Files and Directories in HDFS

```
[cloudera@quickstart ~]$ hdfs dfs -ls /
Found 7 items
drwxrwxrwx - hdfs supergroup 0 2017-04-05 04:27 /benchmarks
drwxr-xr-x - hbase supergroup 0 2024-09-27 05:50 /hbase
drwxr-xr-x - cloudera supergroup 0 2024-10-08 19:46 /mydata
drwxr-xr-x - solr solr 0 2017-04-05 04:29 /solr
drwxrwxrwt - hdfs supergroup 0 2017-04-05 04:29 /tmp
drwxr-xr-x - hdfs supergroup 0 2017-04-05 04:29 /user
drwxr-xr-x - hdfs supergroup 0 2017-04-05 04:29 /var
```

9) `hdfs dfs -help`: displays help for given command or all commands if none is specified

```
[cloudera@quickstart ~]$ hdfs dfs -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>]
```

10) `jps`: to check the Hadoop services are up and running.

```
[cloudera@quickstart ~]$ jps
13947 Jps
```