

Name: Chloe Tee Rouyi
Student ID: 0354731
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
```



A screenshot of a terminal window titled "cloud". The window has a menu bar with "File", "Edit", "View", "Search", and "Terminal". The main area of the terminal shows the following JSON content:

```
{"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-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
[cloudera@quickstart ~]$ ■ cloudera
```

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>]
      [-getattr [-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>]
```

cloudera

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

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