cewiki

HDFS - Hadoop Distributed File System

```
hadoop fs --help
```

Understand absolute/relative dfs paths:

Below command one time creation user home directory using

Absolute Path:

Method 1:

```
hadoop dfs -mkdir -p /user/hadoop
```

Method 2:

```
hadoop dfs -mkdir -p hdfs://hadoop-master-ip:9000/user/hadoop
```

Once the user home is created relative way you may specify directory location.

```
hadoop dfs -mkdir test
```

Which is same as

```
hadoop dfs -mkdir /user/hadoop/test
```

and

```
hadoop dfs -mkdir hdfs://hadoop-master-ip:9000/user/hadoop/test
```

Understand local file system (file:/*) and distributed file system (hdfs:*):

To copy files from local file system into hadoop distributed file system you may use command like put. Because put takes source and destination. Source is expected is local file system location. Destination is expected to be in hdfs.

Hence, it can be achieved two ways as below:

```
hadoop dfs -put /home/hadoop/file01.txt hdfs://192.168.28.11:9000/user/hadoop/
hadoop dfs -put /home/hadoop/file01.txt hdfs://192.168.28.11:9000/user/hadoop/
hadoop dfs -put file:///home/hadoop/file02.txt hdfs://192.168.28.11:9000/user/hadoop/
hadoop dfs -put /home/hadoop/file03.txt .

hadoop dfs -cat ./file01.txt
hadoop dfs -cat hdfs://192.168.28.11:9000/user/hadoop/file02.txt
hadoop dfs -cat file03.txt
hadoop dfs -cat /user/hadoop/file03.txt
```

```
[hadoop@hadoop-clone27 ~]$ hadoop dfs -ls .
Found 4 items
-rw-r--r--   3 hadoop supergroup         13 2017-08-21 20:09 file01.txt
-rw-r--r--   3 hadoop supergroup         13 2017-08-21 20:09 file02.txt
-rw-r--r--   3 hadoop supergroup         13 2017-08-21 20:10 file03.txt
drwxr-xr-x   - hadoop supergroup          0 2017-08-21 20:04 test
[hadoop@hadoop-clone27 ~]$
```

GUI Utility:

http://hadoop-master:50070/explorer.html#/ [http://hadoop-master:50070/explorer.html#/]

More Documentation: http://hadoop.apache.org/docs/current/hadoop-project-dist/hadoop-common/FileSystemShell.html [http://hadoop.apache.org/docs/current/hadoop-project-dist/hadoop-common/FileSystemShell.html]
