

BDA-LAB 03

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- **Aim:** "Interfacing to Distributed File System – HDFS commands and Web GUI file system browser usage"

1. Create a directory named 'Test' from HDFS web UI in '/user/hadoop'. It should give error message. Read this message and solve the error.

stop-dfs.sh

Add in core-site.xml

<property>

<name>hadoop.http.staticuser.user</name>

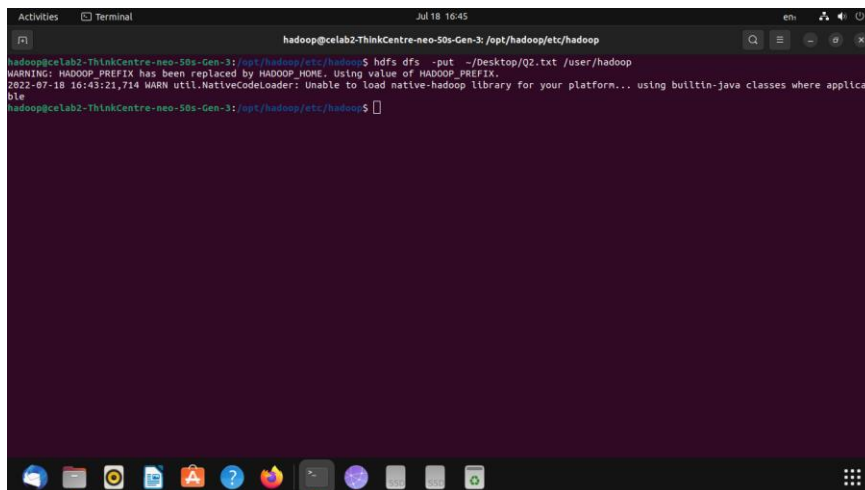
<value>hadoop</value>

</property>

now start-dfs.sh

checking again, the error is gone

2. Create a text file in local file system and put the same file in HDFS using appropriate command.
touch /home/hadoop/Desktop/Q2.txt
hdfs dfs -put /home/hadoop/Desktop/Q2.txt /user/hadoop/test



```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3: /opt/hadoop/etc/hadoop
hadoop@celab2-ThinkCentre-neo-50s-Gen-3: /opt/hadoop/etc/hadoop$ hdfs dfs -put ~/Desktop/Q2.txt /user/hadoop
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
2022-07-18 16:43:21,714 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
hadoop@celab2-ThinkCentre-neo-50s-Gen-3: /opt/hadoop/etc/hadoop$
```

3. Display the contents of this file of HDFS on terminal.
hdfs dfs -cat /user/hadoop/test/Q2.txt

```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:/opt/hadoop/etc/hadoop$ hadoop fs -cat /user/hadoop/Q2.txt
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
2022-07-18 16:51:52,378 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Q2. Create a text file in local file system and upload it to hadoop file system
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:/opt/hadoop/etc/hadoop$
```

Same file on the GUI

Block ID: 1073741827

Block Pool ID: BP-99993434-127.0.1.1-1657783414917

Generation Stamp: 1003

Size: 81

Availability:

- celab2-ThinkCentre-neo-50s-Gen-3

File contents

Q2. Create a text file in local file system and upload it to hadoop file system.

Close

- Download this file of HDFS on local machine and change its contents. Upload this modified file again on HDFS and verify its contents. Also make sure that this file should be deleted from local machine automatically. Also check the same on the gui

```
hdfs dfs -moveFromLocal /home/hadoop/Downloads/Q2.txt /user/hadoop
hdfs dfs -cat /user/hadoop/Q2.txt
```

Block ID: 1073741826

Block Pool ID: BP-99993434-127.0.1.1-1657783414917

Generation Stamp: 1002

Size: 118

Availability:

- celab2-ThinkCentre-neo-50s-Gen-3

File contents

Q2. Create a text file in local file system and upload it to hadoop file system. Now I have edited the file contents.

Close

- Find out a way to display all file system commands supported by hdfs. Record the list.

```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:/opt/hadoop/etc/hadoop$ hdfs dfs -help > ~/Desktop/Q2.txt
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
2022-07-18 17:17:14,794 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platf
orm... using builtin-java classes where applicable
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:/opt/hadoop/etc/hadoop$
```

Activities Text Editor Jul 18 17:17 en: [system icons]

Open Q2.txt ~/Desktop Save [menu icons]

```
1 Usage: hadoop fs [generic options]
2 [-appendToFile <localsrc> ... <dst>]
3 [-cat [-ignoreCrc] <src> ...]
4 [-checksum [-v] <src> ...]
5 [-chgrp [-R] GROUP PATH...]
6 [-chmod [-R] <MODE[,MODE]... | OCTALMODE> PATH...]
7 [-chown [-R] [OWNER][:[GROUP]] PATH...]
8 [-concat <target path> <src path> <src path> ...]
9 [-copyFromLocal [-f] [-p] [-l] [-d] [-t <thread count>] [-q <thread pool queue size>] <localsrc> ... <dst>]
10 [-copyToLocal [-f] [-p] [-crc] [-ignoreCrc] [-t <thread count>] [-q <thread pool queue size>] <src> ... <localdst>]
11 [-count [-q] [-h] [-v] [-t <storage type>]] [-u] [-x] [-e] [-s] <path> ...]
12 [-cp [-f] [-p | -p[topax]] [-d] [-t <thread count>] [-q <thread pool queue size>] <src> ... <dst>]
13 [-createSnapshot <snapshotDir> [<snapshotName>]]
14 [-deleteSnapshot <snapshotDir> [<snapshotName>]]
15 [-df [-h] [<path> ...]]
16 [-du [-s] [-h] [-v] [-x] <path> ...]
17 [-expunge [-immediate] [-fs <path>]]
18 [-find <path> ... <expression> ...]
19 [-get [-f] [-p] [-crc] [-ignoreCrc] [-t <thread count>] [-q <thread pool queue size>] <src> ... <localdst>]
20 [-getfacl [-R] <path>]
21 [-getfattr [-R] {-n name | -d} [-e en] <path>]
22 [-getmerge [-nl] [-skip-empty-file] <src> <localdst>]
23 [-head <file>]
24 [-help [cmd ...]]
25 [-ls [-C] [-d] [-h] [-q] [-R] [-t] [-S] [-r] [-u] [-e] [<path> ...]]
26 [-mkdir [-p] <path> ...]
27 [-moveFromLocal [-f] [-p] [-l] [-d] <localsrc> ... <dst>]
28 [-moveToLocal <src> <localdst>]
29 [-mv <src> ... <dst>]
30 [-put [-f] [-p] [-l] [-d] [-t <thread count>] [-q <thread pool queue size>] <localsrc> ... <dst>]
31 [-renameSnapshot <snapshotDir> <oldName> <newName>]
32 [-rm [-f] [-r|R] [-skipTrash] [-safely] <src> ...]
33 [-rmdir [-ignore-fail-on-non-empty] <dir> ...]
34 [-setfacl [-m] [-b] [-k] [-f] [-x] <acl> <path>]] [-getfacl <path>]] [-getfacl <path>]]
```

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[taskbar icons]