

# Lab – 3

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

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CE004

20CEUOD004

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

## Browse Directory

/user/hadoop

Go!

Show

25

entries

Search:

<

## Browse Directory

/user/hadoop

Go!

Show

25

▼

entries

Search:

Permission

Owner

Group

Size

Last Modified

Replication

Block Size

Name

No data available in table

Showing 0 to 0 of 0 entries

Previous

Next

```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3: ~  
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:/home$ cd hadoop  
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -mkdir Test  
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value  
of HADOOP_PREFIX.  
2022-07-19 11:36:56,929 WARN util.NativeCodeLoader: Unable to load na  
tive-hadoop library for your platform... using builtin-java classes w  
here applicable  
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -rmdir Test  
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value  
of HADOOP_PREFIX.  
2022-07-19 11:38:27,898 WARN util.NativeCodeLoader: Unable to load na  
tive-hadoop library for your platform... using builtin-java classes w  
here applicable  
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$
```

## Browse Directory

/home/hadoop

Go!

Show

25

entries

Search:

Permission

Owner

Group

Size

Last Modified

Replication

Block Size

Name

drwxr-xr-x

hadoop

supergroup

0 B

Jul 19 11:47

0

0 B

Test

Showing 1 to 1 of 1 entries

Previous

1

Next

2. Create a text file in local file system and put the same file in HDFS using appropriate command.

## Browse Directory

/user/hadoop/Test

Go!

Show

25

entries

Search:

Permission

Owner

Group

Size

Last Modified

Replication

Block Size

Name

-rw-r--r--

hadoop

supergroup

18 B

Jul 19 11:44

3

128 MB

test.txt

Showing 1 to 1 of 1 entries

Previous

1

Next

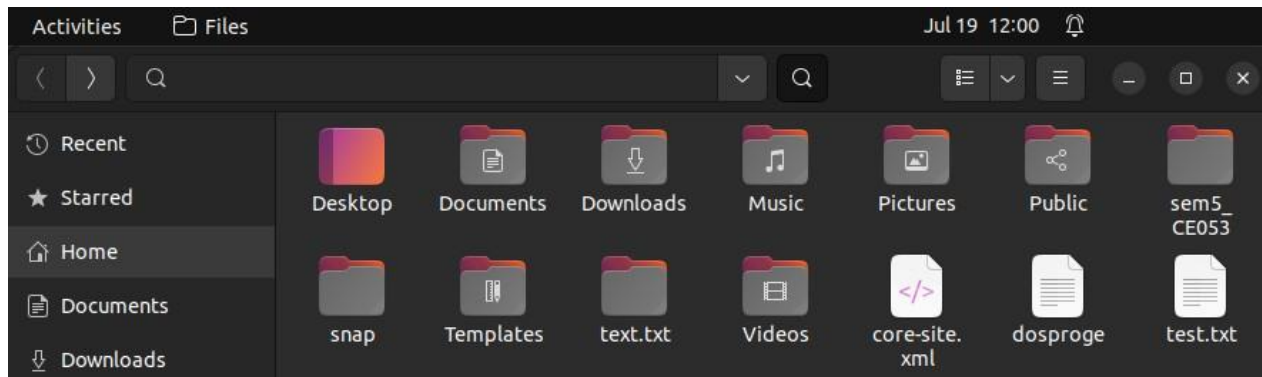
```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3: ~  
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ ls  
core-site.xml  dosproge  Pictures  snap      Videos  
Desktop        Downloads  Public    Templates  
Documents      Music     sem5_CE053 test.txt  
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ pwd  
/home/hadoop  
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -put test.txt /user/hadoop/Test  
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.  
2022-07-19 11:44:45,702 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:~$
```

3. Display the contents of this file of HDFS on terminal.

```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -cat /user/hadoop/Test/test.txt  
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.  
2022-07-19 11:51:21,377 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
Hi From Hello !!!  
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$
```

4. 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.

```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -get /user/hadoop/Test/test.txt  
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.  
2022-07-19 11:59:43,955 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:~$
```



```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3: ~  
command [genericOptions] [commandOptions]  
  
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -moveFromLocal /home/hadoop/test.txt /home/hadoop/Test/Test2.txt  
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.  
2022-07-19 12:15:39,146 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:~$ hdfs dfs -cat /user/hadoop/Test/Test2.txt  
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.  
2022-07-19 12:16:11,782 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
cat: `/user/hadoop/Test/Test2.txt': No such file or directory  
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -cat /home/hadoop/Test/Test2.txt  
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.  
2022-07-19 12:16:22,409 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
Hi From Hello !!!  
Hello says Hey To Hi !!!  
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$
```



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

```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3: ~  
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:/home$ cd hadoop  
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -mkdir Test  
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value  
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hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$
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hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ ls  
core-site.xml  dosproge  Pictures  snap      Videos  
Desktop        Downloads  Public    Templates  
Documents      Music     sem5_CE053  test.txt  
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ pwd  
/home/hadoop  
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -put test.txt /us  
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2022-07-19 11:44:45,702 WARN util.NativeCodeLoader: Unable to load na  
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hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -cat /user/hadoop  
/Test/test.txt  
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hadoop@celab2-ThinkCentre-neo-50s-Gen-3: ~
command [genericOptions] [commandOptions]

hadoop@celab2-ThinkCentre-neo-50s-Gen-3:~$ hdfs dfs -moveFromLocal /h
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