

Session 2: HDFS – INTRODUCTION

Task 1:

Check whether /user/acadgild directory exists or not in the HDFS.

If it doesn't exist, then create this.

Create a directory /user/acadgild/hadoop.

Answer: /user/acadgild exists.

```
[acadgild@localhost Documents]$ hdfs dfs -ls /user/acadgild/
Java HotSpot(TM) Client VM warning: You have loaded library /home/acadgild/hadoop-2.7.2/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. The VM will try to fix the stack guard now.
It's highly recommended that you fix the library with 'execstack -c <libfile>', or link it with '-z noexecstack'.
18/05/14 16:36:24 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 1 items
drwxr-xr-x - acadgild supergroup          0 2016-08-18 09:34 /user/acadgild/employee
[acadgild@localhost Documents]$
```

Created /user/acadgild/hadoop using below command

```
drwxr-xr-x - acadgild supergroup          0 2016-08-18 09:34 /user/acadgild/employee
[acadgild@localhost Documents]$ hdfs dfs -mkdir /user/acadgild/hadoop
```

```
-----
[acadgild@localhost Documents]$ hdfs dfs -ls /user/acadgild/
Java HotSpot(TM) Client VM warning: You have loaded library /home/acadgild/hadoop-2.7.2/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. The VM will try to fix the stack guard now.
It's highly recommended that you fix the library with 'execstack -c <libfile>', or link it with '-z noexecstack'.
18/05/14 16:41:14 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 2 items
drwxr-xr-x - acadgild supergroup          0 2016-08-18 09:34 /user/acadgild/employee
drwxr-xr-x - acadgild supergroup          0 2018-05-14 16:40 /user/acadgild/hadoop
[acadgild@localhost Documents]$
```

Task 2:

Create a file in HDFS under directory /user/acadgild/hadoop, with name word-count.txt.

Whatever we type on screen should get appended to the file.

Try to type (on screen) few lines from any online article or textbook.

Ans: Created word-count.txt. Entered 2 lines of texts.

```

1006 2018-05-14 16:56 /user/acadgild/hadoop/word-count.txt
Found 1 items
-rw-r--r-- 1 acadgild supergroup 106 2018-05-14 16:56 /user/acadgild/hadoop/word-count.txt
[acadgild@localhost Documents]$ hdfs dfs -cat /user/acadgild/hadoop/word-count.txt
Java HotSpot(TM) Client VM warning: You have loaded library /home/acadgild/hadoop-2.7.2/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. The VM will try to fix the stack guard now.
It's highly recommended that you fix the library with 'execstack -c <libfile>', or link it with '-z noexecstack'.
18/05/14 16:58:47 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
This is second task of HDFS introduction assignment.
Whatever we type on screen should be appended in file

[acadgild@localhost Documents]$ █

```

Task 3:

Create a file max-temp.txt in local FS.

Put some 10-15 records of date and temperature example:

dd-mm-yyyy,temperature

Example:

10-01-1990,10

10-02-1991,20

Move this file to HDFS at /user/acadgild/hadoop.

Ans: Created maxtemp.txt in local FS

```

[acadgild@localhost Documents]$ nano max-temp.txt
[acadgild@localhost Documents]$ cat max-temp.txt
01-05-2018,31
02-05-2018,30
03-05-2018,33
04-05-2018,32
05-05-2018,30
06-05-2018,29
07-05-2018,35
08-05-2018,34
09-05-2018,31
10-05-2018,30
[acadgild@localhost Documents]$ █

```

Moved this file to HDFS at /user/acadgild/hadoop.

```
[acadgild@localhost Documents]$ hdfs dfs -put max-temp.txt /user/acadgild/hadoop
Java HotSpot(TM) Client VM warning: You have loaded library /home/acadgild/hadoop-2.7.2/lib/native/
-----
[acadgild@localhost Documents]$ hdfs dfs -ls /user/acadgild/hadoop
Java HotSpot(TM) Client VM warning: You have loaded library /home/acadgild/hadoop-2.7.2/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. The VM will try to fix the stack guard now.
It's highly recommended that you fix the library with 'execstack -c <libfile>', or link it with '-z noexecstack'.
18/05/14 17:09:48 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r-- 1 acadgild supergroup 139 2018-05-14 17:09 /user/acadgild/hadoop/max-temp.txt
-rw-r--r-- 1 acadgild supergroup 106 2018-05-14 16:56 /user/acadgild/hadoop/word-count.txt
[acadgild@localhost Documents]$
```

Task 4:

Change the permission of the file /user/acadgild/hadoop/max-temp.txt, such that only the owner and the group members have full control over the file.

Others do not have any control over it.

Ans: Changed the permission using below command,

```
[acadgild@localhost Documents]$ hdfs dfs -chmod 770 /user/acadgild/hadoop/max-temp.txt
Java HotSpot(TM) Client VM warning: You have loaded library /home/acadgild/hadoop-2.7.2/lib/native/
```

Below is the updated permission:

```
[acadgild@localhost Documents]$ hdfs dfs -ls /user/acadgild/hadoop/max-temp.txt
Java HotSpot(TM) Client VM warning: You have loaded library /home/acadgild/hadoop-2.7.2/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. The VM will try to fix the stack guard now.
It's highly recommended that you fix the library with 'execstack -c <libfile>', or link it with '-z noexecstack'.
18/05/14 17:34:45 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
-rwxrwx--- 1 acadgild supergroup 139 2018-05-14 17:09 /user/acadgild/hadoop/max-temp.txt
[acadgild@localhost Documents]$
```