

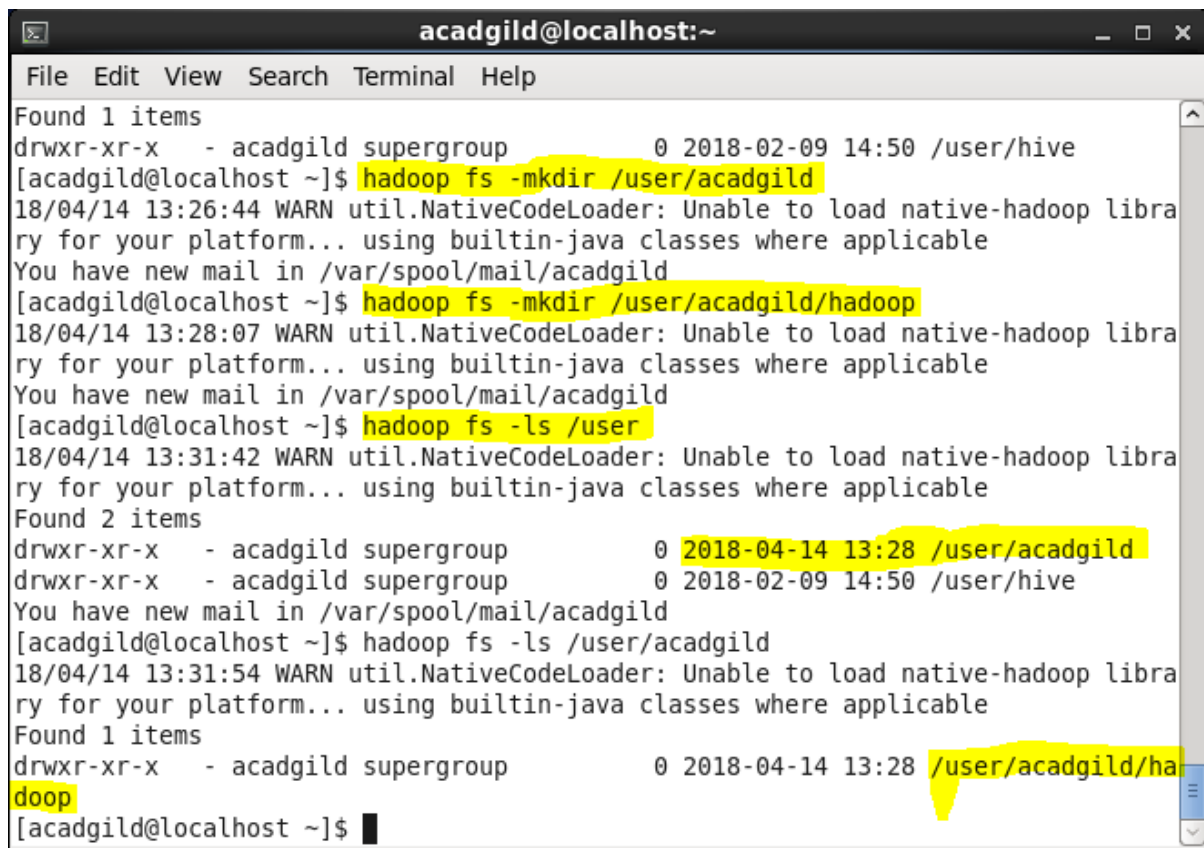
Task 1 :

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.

hadoop fs -mkdir is the command used to create directory. Below is the output evidence

A terminal window titled 'acadgild@localhost:~' showing a series of Hadoop commands and their outputs. The user first lists the contents of /user, finding one item: /user/hive. Then, they run 'hadoop fs -mkdir /user/acadgild', which succeeds. Next, they run 'hadoop fs -mkdir /user/acadgild/hadoop', which also succeeds. Finally, they run 'hadoop fs -ls /user', which lists two items: /user/acadgild (created 2018-04-14 13:28) and /user/hive (created 2018-02-09 14:50). The terminal also shows several warning messages from 'util.NativeCodeLoader' about not being able to load native Hadoop libraries, and a notification about new mail in /var/spool/mail/acadgild.

```
acadgild@localhost:~  
File Edit View Search Terminal Help  
Found 1 items  
drwxr-xr-x - acadgild supergroup          0 2018-02-09 14:50 /user/hive  
[acadgild@localhost ~]$ hadoop fs -mkdir /user/acadgild  
18/04/14 13:26:44 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$ hadoop fs -mkdir /user/acadgild/hadoop  
18/04/14 13:28:07 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$ hadoop fs -ls /user  
18/04/14 13:31:42 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
Found 2 items  
drwxr-xr-x - acadgild supergroup          0 2018-04-14 13:28 /user/acadgild  
drwxr-xr-x - acadgild supergroup          0 2018-02-09 14:50 /user/hive  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild  
18/04/14 13:31:54 WARN util.NativeCodeLoader: Unable to load native-hadoop libra  
ry for your platform... using builtin-java classes where applicable  
Found 1 items  
drwxr-xr-x - acadgild supergroup          0 2018-04-14 13:28 /user/acadgild/ha  
dooop  
[acadgild@localhost ~]$
```

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.

Commands used:

touchz -> to create a file

echo -> to type the text on the window

appendToFile -> to append the text typed on window to the file

```
[acadgild@localhost ~]$ hadoop fs -touchz /user/acadgild/hadoop/word-count.txt
18/04/14 14:06:34 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ echo "Hi , how are you" |hadoop fs -appendToFile - /user/acadgild/hadoop/word-count.txt
18/04/14 14:07:49 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -cat /user/acadgild/hadoop/word-count.txt
18/04/14 14:08:17 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Hi , how are you
[acadgild@localhost ~]$
```

Task 3:

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

Put some 10-15 records of date and temperature. Move this file to HDFS at /user/acadgild/hadoop.

Commands used

Vi -> to create text file in local

moveFromLocal -> to move the file from local to Hadoop

```
[acadgild@localhost ~]$ pwd
/home/acadgild
[acadgild@localhost ~]$ vi max-temp.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ cat max-text.txt
cat: max-text.txt: No such file or directory
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ cat max-temp.txt
10-01-2005,25
10-01-2006,27
10-01-2007,26
10-01-2008,29
10-01-2009,28
10-01-2010,30
10-01-2011,29
10-01-2012,32
10-01-2013,31
[acadgild@localhost ~]$ hadoop fs -moveFromLocal /home/acadgild/max-temp.txt /user/acadgild/hadoop
18/04/14 14:26:00 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/04/14 14:26:27 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 3 items
-rw-r--r-- 1 acadgild supergroup      126 2018-04-14 14:26 /user/acadgild/hadoop/max-temp.txt
drwxr-xr-x - acadgild supergroup      0 2018-04-14 13:52 /user/acadgild/hadoop/word-count
-rw-r--r-- 1 acadgild supergroup      17 2018-04-14 14:07 /user/acadgild/hadoop/word-count.txt
[acadgild@localhost ~]$
```

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.

Commands user :

Chmod -> to change the file permissions

```
[acadgild@localhost ~]$ hadoop fs -chmod u+r,g+x /user/acadgild/hadoop/max-temp.txt
18/04/14 14:37:00 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/04/14 14:37:13 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 3 items
-rw-r-xr-- 1 acadgild supergroup 126 2018-04-14 14:26 /user/acadgild/hadoop/max-temp.txt
drwxr-xr-x - acadgild supergroup 0 2018-04-14 13:52 /user/acadgild/hadoop/word-count
-rw-r--r-- 1 acadgild supergroup 17 2018-04-14 14:07 /user/acadgild/hadoop/word-count.txt
[acadgild@localhost ~]$
```