

Session 2: BIG DATA & HADOOP – INTRODUCTION & CASE STUDIES

Assignment 2

Task 1:

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

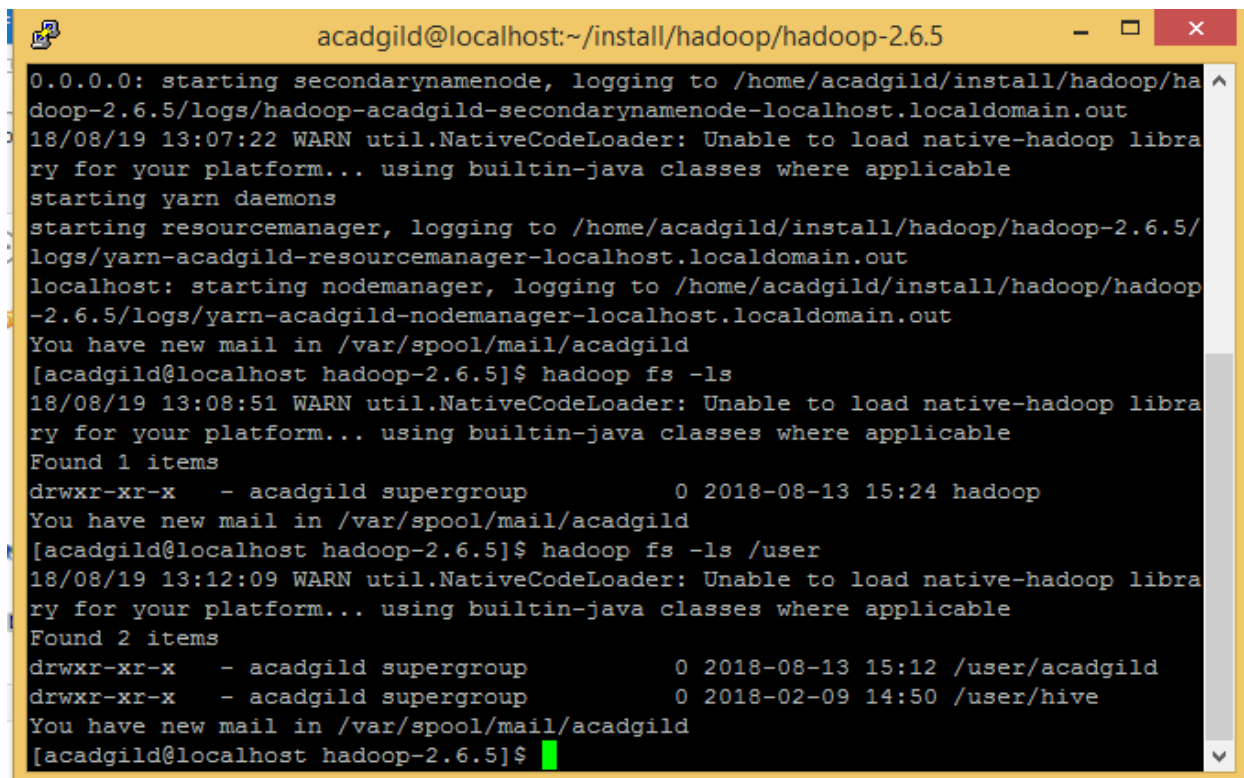
If it doesn't exist, then create this.

Create a directory /user/acadgild/hadoop.

/user/acadgild was not available

I created the directory using the below command

```
hdfs fs -mkdir /user/acadgild/hadoop
```

A terminal window titled 'acadgild@localhost:~/install/hadoop/hadoop-2.6.5' showing the process of starting Hadoop services and checking the HDFS directory structure. The terminal output includes messages for starting secondarynamenode, yarn daemons, resourcemanager, and nodemanager, along with warnings about native code loading. It also shows the execution of 'hadoop fs -ls' and 'hadoop fs -ls /user' commands, which confirm the creation of the /user/acadgild directory and its subdirectories.

```
acadgild@localhost:~/install/hadoop/hadoop-2.6.5
0.0.0.0: starting secondarynamenode, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs/hadoop-acadgild-secondarynamenode-localhost.localdomain.out
18/08/19 13:07:22 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
starting yarn daemons
starting resourcemanager, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs/yarn-acadgild-resourcemanager-localhost.localdomain.out
localhost: starting nodemanager, logging to /home/acadgild/install/hadoop/hadoop-2.6.5/logs/yarn-acadgild-nodemanager-localhost.localdomain.out
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost hadoop-2.6.5]$ hadoop fs -ls
18/08/19 13:08:51 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 2018-08-13 15:24 hadoop
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost hadoop-2.6.5]$ hadoop fs -ls /user
18/08/19 13:12:09 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 2018-08-13 15:12 /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-2.6.5]$
```

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.

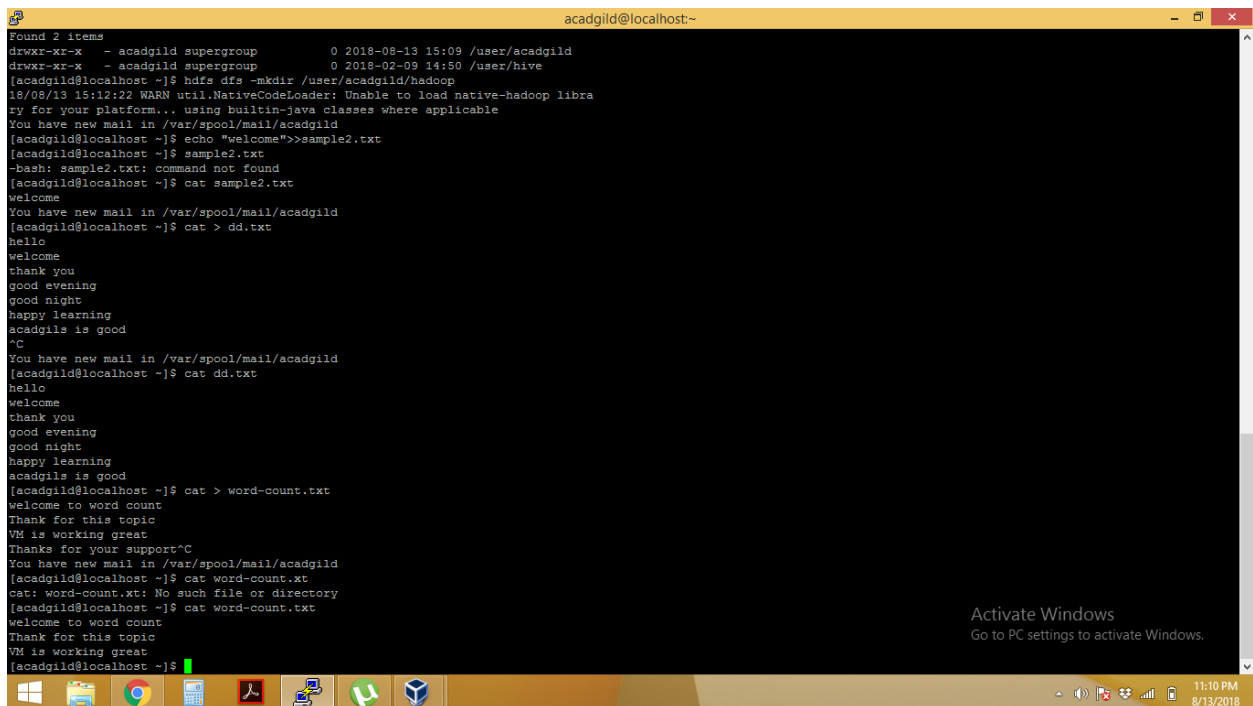
```
[acadgild@localhost] cat>dd.txt
```

Hello how are

What is ur name

Thank your

Ctrl+z to save the file



```
Found 2 items
drwxr-xr-x - acadgild supergroup 0 2018-08-13 15:09 /user/acadgild
drwxr-xr-x - acadgild supergroup 0 2018-02-09 14:50 /user/hive
[acadgild@localhost ~]$ hdfs dfs -mkdir /user/acadgild/hadoop
18/08/13 15:12:22 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 "welcome">>sample2.txt
[acadgild@localhost ~]$ sample2.txt
-bash: sample2.txt: command not found
[acadgild@localhost ~]$ cat sample2.txt
welcome
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ cat > dd.txt
hello
welcome
thank you
good evening
good night
happy learning
acadgils is good
^C
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ cat dd.txt
hello
welcome
thank you
good evening
good night
happy learning
acadgils is good
[acadgild@localhost ~]$ cat > word-count.txt
welcome to word count
Thank for this topic
VM is working great
Thanks for your support^C
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ cat word-count.txt
cat: word-count.txt: No such file or directory
[acadgild@localhost ~]$ cat word-count.txt
welcome to word count
Thank for this topic
VM is working great
[acadgild@localhost ~]$
```

Activate Windows
Go to PC settings to activate Windows.

11:10 PM
8/13/2018

Task 3:

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

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

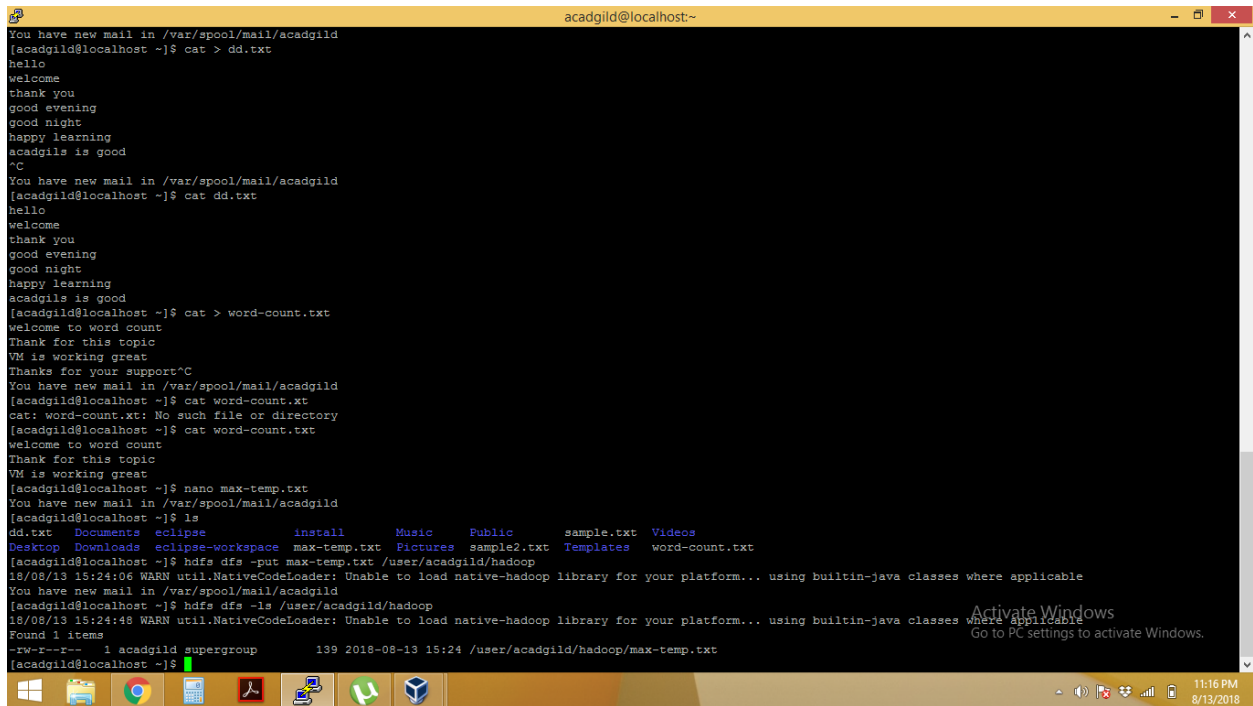
dd-mm-yyyy,temperature

Example:

10-01-1990,10

10-02-1991,20

[acadgild@localhost] nano max-temp.txt



```
acadgild@localhost:~  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$ cat > dd.txt  
hello  
welcome  
thank you  
good evening  
good night  
happy learning  
acadgild is good  
^C  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$ cat dd.txt  
hello  
welcome  
thank you  
good evening  
good night  
happy learning  
acadgild is good  
[acadgild@localhost ~]$ cat > word-count.txt  
welcome to word count  
Thank for this topic  
VM is working great  
Thanks for your support^C  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$ cat word-count.txt  
cat: word-count.txt: No such file or directory  
[acadgild@localhost ~]$ cat word-count.txt  
welcome to word count  
Thank for this topic  
VM is working great  
[acadgild@localhost ~]$ nano max-temp.txt  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$ ls  
dd.txt  Documents  eclipse  install  Music  Public  sample.txt  Videos  
Desktop  Downloads  eclipse-workspace  max-temp.txt  Pictures  sample2.txt  Templates  word-count.txt  
[acadgild@localhost ~]$ hdfs dfs -put max-temp.txt /user/acadgild/hadoop  
18/08/13 15:24:06 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 ~]$ hdfs dfs -ls /user/acadgild/hadoop  
18/08/13 15:24:48 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
Found 1 items  
-rw-r--r-- 1 acadgild supergroup 139 2018-08-13 15:24 /user/acadgild/hadoop/max-temp.txt  
[acadgild@localhost ~]$
```

```
acadgild@localhost:~  
Found 2 items  
drwxr-xr-x - acadgild supergroup      0 2018-08-13 15:12 /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-2.6.5]$ cd  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$ ls  
dd.txt      eclipse      Music        sample.txt  
Desktop     eclipse-workspace  Pictures     Templates  
Documents   install      Public       Videos  
Downloads   max-temp.txt  sample2.txt  word-count.txt  
[acadgild@localhost ~]$ cat max-temp.txt  
10-01-1990,10  
10-02-1991,23  
10-03-1990,34  
10-06-1990.14  
10-06-1994,16  
11-09-1994,17  
11-09-1995,20  
11-09-1997,8  
11-09-1998,24  
11-09-199,12  
[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.

```
[acadgild@localhost] hdfs dfs -chmod cg+rw /user/acadgild/hadoop max-temp.txt
```

```
acadgild@localhost:~  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$ cat dd.txt  
hello  
welcome  
thank you  
good evening  
good night  
happy learning  
acadgild is good  
[acadgild@localhost ~]$ cat > word-count.txt  
welcome to word count  
Thank for this topic  
VM is working great  
Thanks for your support^C  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$ cat word-count.txt  
cat: word-count.txt: No such file or directory  
[acadgild@localhost ~]$ cat word-count.txt  
welcome to word count  
Thank for this topic  
VM is working great  
[acadgild@localhost ~]$ nano max-temp.txt  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$ ls  
dd.txt  Documents  eclipse  install  Music  Public  sample.txt  Videos  
Desktop  Downloads  eclipse-workspace  max-temp.txt  Pictures  sample2.txt  Templates  word-count.txt  
[acadgild@localhost ~]$ hdfs dfs -put max-temp.txt /user/acadgild/hadoop  
18/08/13 15:24:06 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 ~]$ hdfs dfs -ls /user/acadgild/hadoop  
18/08/13 15:24:48 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
Found 1 items  
-rw-r--r-- 1 acadgild supergroup 139 2018-08-13 15:24 /user/acadgild/hadoop/max-temp.txt  
[acadgild@localhost ~]$ hdfs dfs -ls /user/acadgild/hadoop/max-temp.txt  
18/08/13 15:30:47 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
-rw-r--r-- 1 acadgild supergroup 139 2018-08-13 15:24 /user/acadgild/hadoop/max-temp.txt  
You have new mail in /var/spool/mail/acadgild  
[acadgild@localhost ~]$ hdfs dfs -chmod ug+rw /user/acadgild/hadoop/max-temp.txt  
18/08/13 15:35:48 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 ~]$ hdfs dfs -ls /user/acadgild/hadoop/max-temp.txt  
18/08/13 15:36:16 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable  
-rw-rw-r-- 1 acadgild supergroup 139 2018-08-13 15:24 /user/acadgild/hadoop/max-temp.txt  
[acadgild@localhost ~]$
```

Activate Windows
Go to Settings to activate Windows.