

INTRODUCTION TO HDFS Assignment.

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1) 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: No it does not exist, .

```
[acadgild@localhost ~]$ jps
4162 Jps
3782 NodeManager
3655 ResourceManager
3449 SecondaryNameNode
3182 NameNode
3278 DataNode
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -ls /user
18/10/27 23:57:41 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 2018-02-09 14:50 /user/hive
[acadgild@localhost ~]$
```

Hence Created the same

```
[acadgild@localhost ~]$ hadoop fs -mkdir /user/acadgild
18/10/28 00:06:01 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
18/10/27 18:36:43 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 2018-10-28 00:06 /user/acadgild
drwxr-xr-x - acadgild supergroup          0 2018-02-09 14:50 /user/hive
[acadgild@localhost ~]$ hadoop fs -mkdir /user/acadgild/hadoop
18/10/27 18:37:36 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[acadgild@localhost ~]$ hadoop fs -ls /user
18/10/27 18:38:09 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 2018-10-28 00:06 /user/acadgild
drwxr-xr-x - acadgild supergroup          0 2018-02-09 14:50 /user/hive
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild
18/10/27 18:38:51 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 2018-10-27 18:37 /user/acadgild/hadoop
[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.

==Created file word-count.txt

```
[acadgild@localhost ~]$ hadoop fs -touchz /user/acadgild/hadoop word-count.txt
18/10/27 18:44:58 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
touchz: `/user/acadgild/hadoop': Is a directory
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/10/27 18:45:40 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
[acadgild@localhost ~]$ hadoop fs -touchz /user/acadgild/hadoop/word-count.txt
18/10/27 18:46:50 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
^C18/10/27 18:47:38 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java
classes where applicable
ls: `/user/acadgild/hadoop': No such file or directory
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/10/27 18:48:25 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 1 items
-rw-r--r-- 1 acadgild supergroup          0 2018-10-27 18:46 /user/acadgild/hadoop/word-count.txt
[acadgild@localhost ~]$
```

==added few lines and appended to the file

```
[acadgild@localhost ~]$ hadoop fs -appendToFile - /user/acadgild/hadoop/word-count.txt
18/10/27 18:53:36 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
My Name is Shashank Dixit. I am learning Big Data Hadoop and Spark. My mentor is Magesh.
[acadgild@localhost ~]$ hadoop fs -cat /user/acadgild/hadoop/word-count.txt
18/10/27 18:57:42 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
My Name is Shashank Dixit. I am learning Big Data Hadoop and Spark. My mentor is Magesh.
[acadgild@localhost ~]$
```

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

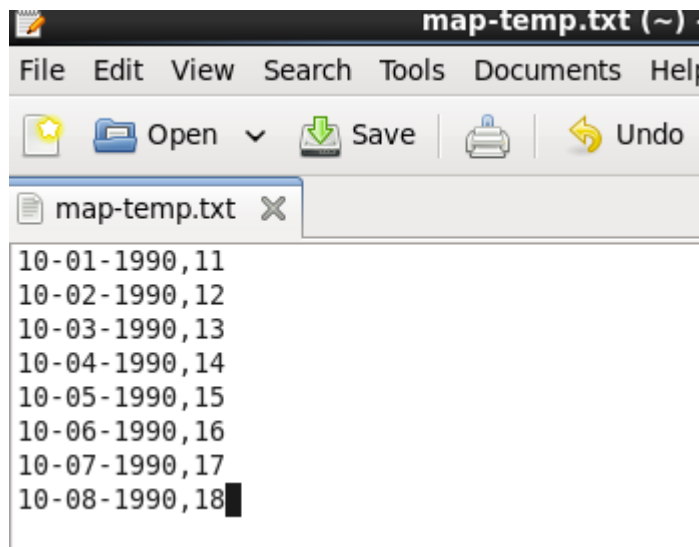
Example:

10-01-1990,10

10-02-1991,20

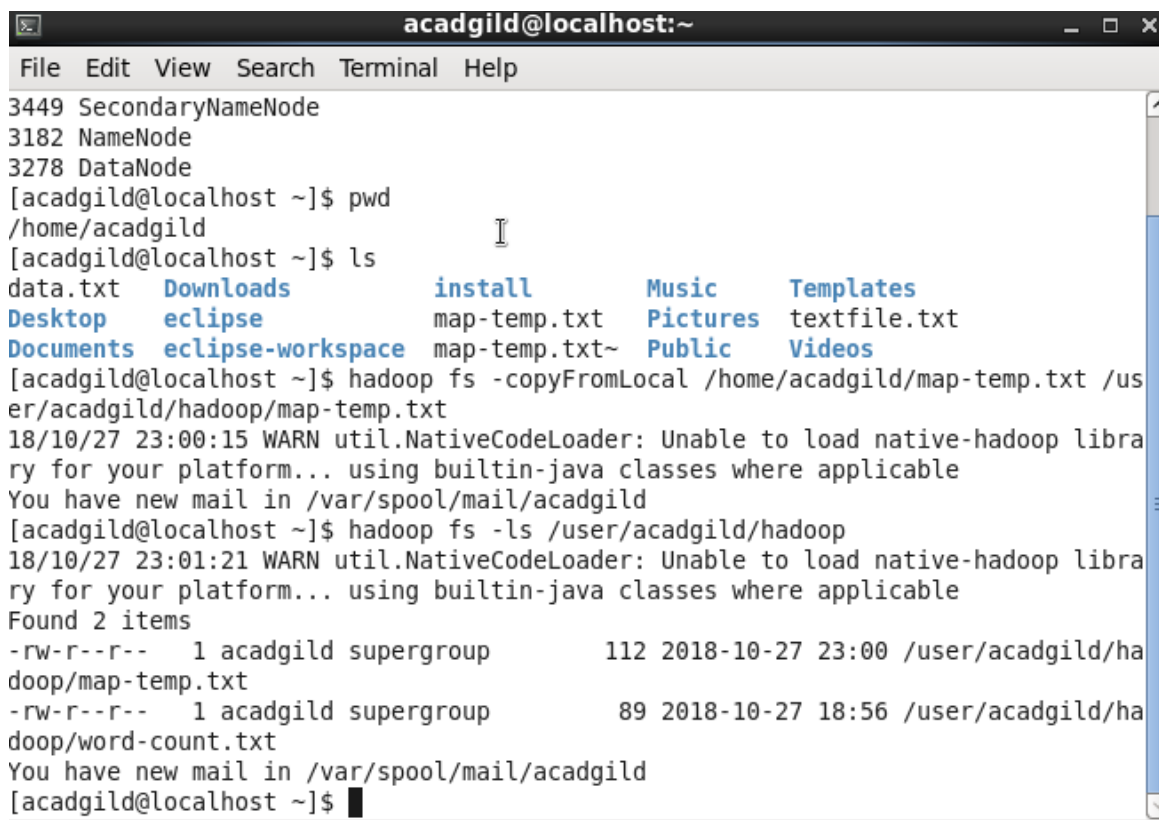
Move this file to HDFS at /user/acadgild/hadoop.

==created a file names max-temp.txt on Local and added few lines into it.



```
map-temp.txt (~)
File Edit View Search Tools Documents Help
Open Save Undo
map-temp.txt x
10-01-1990,11
10-02-1990,12
10-03-1990,13
10-04-1990,14
10-05-1990,15
10-06-1990,16
10-07-1990,17
10-08-1990,18
```

==copied from Local:



```
acadgild@localhost:~
File Edit View Search Terminal Help
3449 SecondaryNameNode
3182 NameNode
3278 DataNode
[acadgild@localhost ~]$ pwd
/home/acadgild
[acadgild@localhost ~]$ ls
data.txt  Downloads  install  Music  Templates
Desktop  eclipse    map-temp.txt  Pictures  textfile.txt
Documents eclipse-workspace map-temp.txt~ Public  Videos
[acadgild@localhost ~]$ hadoop fs -copyFromLocal /home/acadgild/map-temp.txt /user/acadgild/hadoop/map-temp.txt
18/10/27 23:00:15 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
18/10/27 23:01:21 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      112 2018-10-27 23:00 /user/acadgild/hadoop/map-temp.txt
-rw-r--r--  1 acadgild supergroup       89 2018-10-27 18:56 /user/acadgild/hadoop/word-count.txt
You have new mail in /var/spool/mail/acadgild
[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.

==Changed the permission of the file so that the file is accessible by the owner and the group only by using the command `hadoop fs -chmod 770 /user/acadgild/hadoop/max-temp.txt`

```
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -chmod 770 /user/acadgild/hadoop/map-temp.txt
18/10/27 23:25:26 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 ~]$ █
```