ACADGILD

Assignment_2.1

Commands to execute on top of HDFS file

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Assignment 2.1

Task 1: Check whether /user/acadgild is present in HDFS or not, if not create this directory
/user/acadgild/hadoop

Solution:

hadoop fs –ls /user

Above command is used to check for the files present in the path or not. We did not find any acadgild dir.

hadoop fs –mkdir /user/acadgild

The above command is used to create the required directory. Below is the snip-

hadoop fs –mkdir /user/acadgild/hadoop

In this way we can create the directory in the HDFS.

Task 2: Create a file in HDFS under directory user/acadgild/hadoop, with the name word-count.txt

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

Solution:

hadoop fs –touchz /user/acadgild/hadoop/word-count.txt

The above command will create a file named "word-count.txt" in HDFS in given directory.

Checking if file present in the path or not using below command –

hadoop fs –ls /user/acadgild/hadoop/

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```
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/07/18 00:15:38 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using built
Found 1 items
-rw-r--r--   1 acadgild supergroup          0 2018-07-18 00:08 /user/acadgild/hadoop/word-count.txt
[acadgild@localhost ~]$ 
```

Appending text to file word-count.txt using appendToFile command.

hadoop fs –appendToFile - /word-count.txt

then type your text and the CTRL+C

```
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/07/18 00:15:38 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          0 2018-07-18 00:08 /user/acadgild/hadoop/word-count.txt
[acadgild@localhost ~]$ hadoop fs -appendToFile - /word-count.txt
18/07/18 00:20:40 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Birds of the Indian Sub-continent.
The book is complied to provide details on various bird species found in the Indian subcontinent.
There are lists on the information of nearly 1,300 species of birds. Some of the birds mentioned in are Otus thilohoffmanni, S. whistleri and Seicercus burkii.
About the author:
Richard Grimmett: He is a well-known author and has travelled extensively across Asia documenting various bird species for his projects.
^CYou have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ 
```

Now, Use below command to see the text entered by the user on console.

hadoop fs –cat /word-count.txt

```
[acadgild@localhost ~]$ hadoop fs -cat /word-count.txt
18/07/18 00:26:32 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Birds of the Indian Sub-continent.
The book is complied to provide details on various bird species found in the Indian subcontinent.
There are lists on the information of nearly 1,300 species of birds. Some of the birds mentioned in are Otus thilohoffmanni, S. whistleri and Seicercus burkii.
About the author:
Richard Grimmett: He is a well-known author and has travelled extensively across Asia documenting various bird species for his projects.
[acadgild@localhost ~]$ 
```

Task 3: Create max-temp.txt file in local fs and then move it to HDFS at /user/acadgild/Hadoop

Solution:

hadoop fs –put /home/acadgild/Desktop/TestHadoop/max-temp.txt /user/acadgild/hadoop

The above command is used to move the file from local fs to HDFS path.

```
[acadgild@localhost ~]$ hadoop fs -put /home/acadgild/Desktop/TestHadoop/max-temp.txt /user/acadgild/hadoop
18/07/18 00:38:19 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/07/18 00:38:39 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        208 2018-07-18 00:38 /user/acadgild/hadoop/max-temp.txt
-rw-r--r--   1 acadgild supergroup          0 2018-07-18 00:08 /user/acadgild/hadoop/word-count.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ 
```

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Task 4: Change the permission of the file so that only the owner and the group members have full control over the file.

Solution:

Before making changes in the permission –

```
[acadgild@localhost ~]$ hadoop fs -ls /user/acadgild/hadoop
18/07/18 01:12:13 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        208 2018-07-18 00:38 /user/acadgild/hadoop/max-temp.txt
-rw-r--r--   1 acadgild supergroup          0 2018-07-18 00:08 /user/acadgild/hadoop/word-count.txt
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
```

Command to change permissions for Owner and Group members –
hadoop fs –chmod 770 /user/acadgild/hadoop/max-temp.txt

```
[acadgild@localhost ~]$ hadoop fs -chmod 770 /user/acadgild/hadoop/max-temp.txt
18/07/18 01:34:06 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 ~]$ hadoop fs -ls /user/acadgild/hadoop
18/07/18 01:34:26 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 2 items
-rwxrwx---   1 acadgild supergroup        208 2018-07-18 00:38 /user/acadgild/hadoop/max-temp.txt
-rw-r--r--   1 acadgild supergroup          0 2018-07-18 00:08 /user/acadgild/hadoop/word-count.txt
[acadgild@localhost ~]$
```