CSP554—Big Data Technologies

Assignment #2 (Modules 02a & 02b, 20 points)

9. (2 points) Execute the following hdfs command to list the files or directories that are listed (also indicating which is a file and which a directory):

10. (2 points) Execute a command (you needed to figure out which one) to list the files and directories under the hdfs directory listed below:

```
/user
Found 5 items
drwxrwxrwx
                hadoop
                              hdfsadmingroup
                                                             0 2023-09-13 20:24
                                                                                     /user/hadoop
                                                             0 2023-09-13 20:24 /user/livy
0 2023-09-13 20:24 /user/root
0 2023-09-13 20:24 /user/spark
                               livy
                   livy
drwxrwxrwx
drwxrwxrwx
                              hdfsadmingroup
                   root
drwxrwxrwx
                   spark
                               spark
                                                                2023-09-13
                                                                             20:24
                              hdfsadmingroup
drwxrwxrwx
                   zeppelin
                                                             0
                                                                                      /user/zeppelin
```

11. (2 points) Execute a command to create the following HDFS directory:

/user/csp554

```
[hadoop@ip-172-31-9-120 ~]$ hadoop fs -mkdir /user/csp554 mkdir: /user/csp554': File exists
[hadoop@ip-172-31-9-120 ~]$ hadoop fs -ls /user
Found 6 items
                                                                 0 2023-09-13 21:43 /user/csp554
0 2023-09-13 20:24 /user/hadoop
0 2023-09-13 20:24 /user/livy
0 2023-09-13 20:24 /user/root
drwxr-xr-x
                                hdfsadmingroup
                    hadoop
drwxrwxrwx
                    hadoop
                                 hdfsadmingroup
                                 livy
                    livy
drwxrwxrwx
                    root
                                hdfsadmingroup
drwxrwxrwx
                                                                 0 2023-09-13 20:24 /user/spark
                                 spark
                    spark
drwxrwxrwx
                                hdfsadmingroup
                                                                 0 2023-09-13 20:24 /user/zeppelin
                    zeppelin
drwxrwxrwx
```

12. (2 points) Execute a command to create the following HDFS directory:

/user/csp554-2

```
Found 7 items
                                         hdfsadmingroup
                                                                                   0 2023-09-13 21:43 /user/csp554
drwxr-xr-x
                         hadoop
                                                                                  0 2023-09-13 21:43 /user/csp334

0 2023-09-13 21:45 /user/csp554-2

0 2023-09-13 20:24 /user/hadoop

0 2023-09-13 20:24 /user/livy

0 2023-09-13 20:24 /user/root

0 2023-09-13 20:24 /user/spark

0 2023-09-13 20:24 /user/zeppelin
drwxr-xr-x
                          hadoop
                                         hdfsadmingroup
                          hadoop
                                          hdfsadmingroup
drwxrwxrwx
                                          livy
drwxrwxrwx
                          livy
                                         hdfsadmingroup
drwxrwxrwx
                         root
drwxrwxrwx
                         spark
                                          spark
                         zeppelin hdfsadmingroup
drwxrwxrwx
```

13. (2 points) Execute a command that copies a given local file to the given hdfs directory:

Source local file: /home/hadoop/myname.txt (where the actual name is your name as described above)

Destination HDFS directory: /user/csp554

```
[hadoop@ip-172-31-9-120 ~]$ hadoop fs -copyFromLocal /home/hadoop/kevan.txt /user/csp554
```

```
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmingroup 21 2023-09-13 21:51 /user/csp554/kevan.txt
```

14. (2 points) Copy a file from one hdfs directory to another hdfs directory and write down the command

Source hdfs file: /user/csp554/myname.txt (where the actual name is your name as described above)

```
Destination HDFS directory: /user/csp554-2
[hadoop@ip-172-31-9-120 ~]$ hadoop fs -cp /user/csp554/kevan.txt /user/csp554-2
```

15. (2 points) Copy the object myid.txt you uploaded to an S3 bucket into the Hadoop master node Linux file system. The actual object includes your student id as above.

```
[hadoop@ip-172-31-9-120 ~]$ aws s3 cp s3://myawsbucket-1110/A20522659.txt /home/hadoop/A20522659.txt download: s3://myawsbucket-1110/A20522659.txt to ./A20522659.txt [hadoop@ip-172-31-9-120 ~]$ ls /home/hadoop A20522659.txt kevan.txt [hadoop@ip-172-31-9-120 ~]$ |
```

16. (2 points) Copy the same object myid.txt you created in an S3 bucket into HDFS into the directory /users/csp554

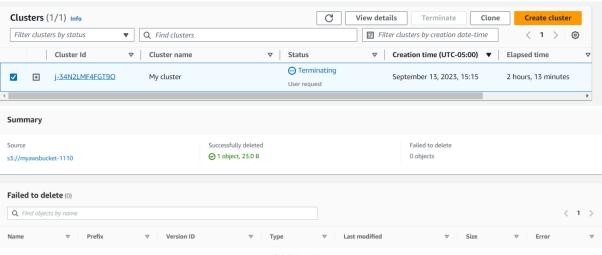
17. (2 points) Execute a command to show the contents of the myid.txt file in the hdfs directory /user/csp554-2

```
[hadoop@ip-172-31-9-120 ~]$ ls
A20522659.txt kevan.txt
[hadoop@ip-172-31-9-120 ~]$ hadoop fs -cat /user/csp554-2/A20522659.txt
this is the name file
```

Note: By mistake, I changed a text in the .txt file so instead of the id file it is coming name file as an output kindly I apologize for the same.

18. (2 points) Execute a command to remove the myid.txt file in the hdfs directory /user/csp554-2

19. This might be very important to your wallet. Bucket deleting and termination section.



No failed object deletions