ASSIGNMENT - 2

CSP - 554 BIG DATA TECHNOLOGIES

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): hadoop fs –ls /

Executed Command → "hadoop fs –ls /"

```
[hadoop@ip-172-31-0-217 ~]$ hadoop fs -ls /
Found 4 items

drwxr-xr-x - hdfs hdfsadmingroup
 drwxrwxrwt - hdfs hdfsadmingroup
 drwxr-xr-x - hdfs hdfsadmingroup
 drwxr-xr-x - hdfs hdfsadmingroup
 drwxr-xr-x - hdfs hdfsadmingroup
 drwxr-xr-x - hdfs hdfsadmingroup
 [hadoop@ip-172-31-0-217 ~]$ |
```

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

Executed Command → "hadoop fs –ls /user"

```
0 2024-09-02 21:17 /user
drwxr-xr-x - hdfs hdfsadmingroup
drwxr-xr-x - hdfs hdfsadmingroup
                                       0 2024-09-02 21:17 /var
[hadoop@ip-172-31-0-217 ~]$ hadoop fs -ls /user
Found 6 items
drwxrwxrwx - hadoop hdfsadmingroup
                                        0 2024-09-02 21:17 /user/hadoop
                                         0 2024-09-02 21:17 /user/history
drwxr-xr-x - mapred mapred
drwxrwxrwx - hdfs hdfsadmingroup
                                         0 2024-09-02 21:17 /user/hive
drwxrwxrwx - hue
                   hue
                                         0 2024-09-02 21:17 /user/hue
drwxrwxrwx - oozie oozie
                                         0 2024-09-02 21:18 /user/oozie
drwxrwxrwx - root hdfsadmingroup
                                        0 2024-09-02 21:17 /user/root
[hadoop@ip-172-31-0-217 ~]$
```

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

/user/csp554

Executed Commands →

"hadoop fs -mkdir /user/csp554"

"hadoop fs -ls /user"

```
hdfsadmingroup
                                           0 2024-09-02 21:17 /user/root
[hadoop@ip-172-31-0-217 ~] $ hadoop
[hadoop@ip-172-31-0-217 ~]$ hadoop fs -mkdir /user/csp554-2
[hadoop@ip-172-31-0-217 ~]$ hadoop fs -ls /
Found 8 items
drwxr-xr-x - hadoop hdfsadmingroup
                                          0 2024-09-02 21:31 /user/csp554-2
drwxr-xr-x - hadoop hdfsadmingroup
                                         0 2024-09-02 21:17 /user/hadoop
drwxrwxrwx - hadoop hdfsadmingroup
                                          0 2024-09-02 21:17 /user/history
drwxr-xr-x - mapred mapred
drwxrwxrwx - hdfs hdfsadmingroup
                                         0 2024-09-02 21:17 /user/hive
                                          0 2024-09-02 21:17 /user/hue
drwxrwxrwx - hue
                   hue
                                          0 2024-09-02 21:18 /user/oozie
drwxrwxrwx - oozie oozie
drwxrwxrwx - root hdfsadmingroup
                                          0 2024-09-02 21:17 /user/root
[hadoop@ip-172-31-0-217 ~]$
```

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

/user/csp554-2

Executed Commands >

"hadoop fs –mkdir /user/csp554-2"

"hadoop fs -ls /user"

```
hdfsadmingroup
            - root
                                            0 2024-09-02 21:17 /user/root
[hadoop@ip-172-31-0-217 ~]$ hadoop fs -mkdir /user/csp554
[hadoop@ip-172-31-0-217 ~]$ hadoop fs -mkdir /user/csp55
[hadoop@ip-172-31-0-217 ~]$ hadoop fs
Found 8 items
drwxr-xr-x - hadoop hdfsadmingroup
                                            0 2024-09-02 21:31 /user/csp554
drwxr-xr-x - hadoop hdfsadmingroup
                                            0 2024-09-02 21:17 /user/hadoop
drwxrwxrwx - hadoop hdfsadmingroup
                                            0 2024-09-02 21:17 /user/history
drwxr-xr-x - mapred mapred
                                           0 2024-09-02 21:17 /user/hive
drwxrwxrwx - hdfs hdfsadmingroup
drwxrwxrwx - hue
                                           0 2024-09-02 21:17 /user/hue
                    hue
drwxrwxrwx - oozie oozie
                                           0 2024-09-02 21:18 /user/oozie
drwxrwxrwx - root hdfsadmingroup
                                           0 2024-09-02 21:17 /user/root
[hadoop@ip-172-31-0-217 ~]$
```

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

Executed Commands →

"hadoop fs –put /home/hadoop/akhilkumarmarni.txt /user/csp554"

"hadoop fs –ls /user/csp554"

```
[hadoop@ip-172-31-0-217 ~]$ hadoop fs -put /home/hadoop/akhilkumarmarni.txt /user/csp554 [hadoop@ip-172-31-0-217 ~]$ hadoop fs -ls /user/csp554 [hadoop@ip-172-31-0-217 ~]$ hadoop fs -ls /user/csp554 [hadoop@ip-172-31-0-217 ~]$ 23 2024-09-02 22:41 /user/csp554/akhilkumarmarni.txt [hadoop@ip-172-31-0-217 ~]$
```

"hadoop fs -cat /user/csp554/akhilkumarmarni.txt"

```
[hadoop@ip-172-31-0-217 ~]$ hadoop fs -put /home/hadoop/akhilkumarmarni.txt /user/csp554
[hadoop@ip-172-31-0-217 ~]$ hadoop fs -ls /user/csp554
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmingroup 23 2024-09-02 22:41 /user/csp554/akhilkumarmarni.txt
[hadoop@ip-172-31-0-217 ~]$ hadoop fs -cat /user/csp554/akhilkumarmarni.txt
this is the name file
```

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

Executed Commands →

'hadoop fs –put /home/hadoop/akhilkumarmarni.txt /user/csp554-2'

"hadoop fs –ls /user/csp554-2"

"hadoop fs -cat /user/csp554-2/akhilkumarmarni.txt"

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.

aws s3 cp s3://mybucket/myid.txt /home/hadoop/myid.txt

Executed Commands →

'aws s3 cp s3://akhilkumarmarnibucket/A20554334.txt /home/hadoop/A20554334.txt'

"cat A20554334.txt"

```
Unknown options: /home/hadoop/A20554334.txt
[hadoop@ip-172-31-0-217 ~]$ aws s3 cp s3://akhilkumarmarnibucket/A20554334.txt /home/hadoop/A20554334.txt download: s3://akhilkumarmarnibucket/A20554334.txt to ./A20554334.txt
[hadoop@ip-172-31-0-217 ~]$ ls
A20554334.txt akhilkumarmarni.txt
[hadoop@ip-172-31-0-217 ~]$ cat A20554334.txt
this is the id file
[hadoop@ip-172-31-0-217 ~]$
```

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

/users/csp554

hadoop fs -cp s3://mybucket/myid.txt hdfs:///user/csp554-2

Executed Commands →

'hadoop fs -cp s3://akhilkumarmarnibucket/A20554334.txt hdfs:///user/csp554-2'

"hadoop fs -ls /user/csp554-2"

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

/user/csp554-2

Executed Command →

"hadoop fs -cat /user/csp554-2/A20554334.txt"

[hadoop@ip-172-31-0-217 ~]\$ hadoop fs -cat /user/csp554-2/A20554334.txt this is the id file

[hadoop@ip-172-31-0-217 ~]\$

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

Clue: look up about how to use the "rm" command in the file system shell document

Executed Commands →

"hadoop fs -rm /user/csp554-2/A20554334.txt"

"hadoop fs -ls /user/csp554-2"

-----THE END-----