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A20496724 Fall 2022

CSP554—Big Data Technologies

Assignment #2

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 /

Ans. \$ hadoop fs -ls /

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

Write down the command you executed and also take a screen snapshot of names of the files or directories that are listed and include it in your assignment submission.

Ans. \$ hadoop fs -ls /user

```
[hadoop@ip-172-31-7-153 ~]$ hadoop fs -ls /user
Found 6 items
drwxrwxrwx - hadoop hdfsadmingroup
                                             0 2022-09-15 01:03 /user/hadoop
                                             0 2022-09-15 01:03 /user/history
drwxr-xr-x

    mapred mapred

           - hdfs hdfsadmingroup
                                             0 2022-09-15 01:03 /user/hive
drwxrwxrwx
           - hue
                                             0 2022-09-15 01:03 /user/hue
drwxrwxrwx
                     hue
           - oozie oozie
drwxrwxrwx
                                             0 2022-09-15 01:05 /user/oozie
           - root
drwxrwxrwx
                     hdfsadmingroup
                                             0 2022-09-15 01:03 /user/root
[hadoop@ip-172-31-7-153 ~]$
```

11) (2 points) Execute a command to create the following HDFS directory: /user/csp554

Record the command you executed and include it in your assignment submission.

Ans. \$ hadoop fs -mkdir /user/csp554

```
[hadoop@ip-172-31-7-153 ~]$ hadoop fs -mkdir /user/csp554
[hadoop@ip-172-31-7-153 ~]$ hadoop fs -ls /user
Found 7 items
drwxrwxrwx - hadoop hdfsadmingroup
drwxr-xr-x - mapsed massar
drwxr-xr-x - hadoop hdfsadmingroup
                                            0 2022-09-15 01:08 /user/csp554
                                            0 2022-09-15 01:03 /user/hadoop
drwxr-xr-x - mapred mapred
                                           0 2022-09-15 01:03 /user/history
                                          0 2022-09-15 01:03 /user/hive
drwxrwxrwx - hdfs hdfsadmingroup
drwxrwxrwx - hue
                                           0 2022-09-15 01:03 /user/hue
                                           0 2022-09-15 01:05 /user/oozie
drwxrwxrwx
            - oozie oozie
drwxrwxrwx - root hdfsadmingroup
                                     0 2022-09-15 01:03 /user/root
[hadoop@ip-172-31-7-153 ~]$
```

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

/user/csp554-2

Record the command you executed and include it in your assignment submission.

Ans. \$ hadoop fs -mkdir /user/csp554-2

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

Record the command you executed and include it in your assignment submission.

Ans. \$ hadoop fs -put /home/hadoop/kajolshah.txt /user/csp554

```
[hadoop@ip-172-31-7-153 ~]$ hadoop fs -put /home/hadoop/kajolshah.txt /user/csp554
[hadoop@ip-172-31-7-153 ~]$ hadoop fs -ls /user/csp554
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmingroup 23 2022-09-15 01:13 /user/csp554/kajolshah.txt
[hadoop@ip-172-31-7-153 ~]$
```

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

Record the command you executed and include it in your assignment submission.

Ans. \$ hadoop fs -cp /user/csp554/kajolshah.txt /user/csp554-2

```
[hadoop@ip-172-31-7-153 ~]$ hadoop fs -cp /user/csp554/kajolshah.txt /user/csp554-2
[hadoop@ip-172-31-7-153 ~]$ hadoop fs -ls /user/csp554-2
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmingroup 23 2022-09-15 01:15 /user/csp554-2/kajolshah.txt
[hadoop@ip-172-31-7-153 ~]$
```

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

After you executed the above command perform an "ls /home/hadoop" and take a screen snapshot of names of the files or directories that are listed and include it in your assignment submission.

Ans. \$ aws s3 cp s3://kajolshahbucket/A20496724.txt /home/hadoop/A20496724.txt

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

Note, the three slashes after the "hdfs:"

After you executed the above command, execute another command to list directories listed below

/user/csp554-2

Write down the command you executed and also take a screen snapshot of names of the files or directories that are listed and include it in your assignment submission.

Ans. \$ hadoop fs -cp s3://kajolshahbucket/A20496724.txt hdfs:///user/csp554-2

```
[hadoop@ip-172-31-7-153 ~]$ hadoop fs -cp s3://kajolshahbucket/A20496724.txt hdfs:///user/csp554-2
22/09/15 01:21:51 INFO s3n.S3NativeFileSystem: Opening 's3://kajolshahbucket/A20496724.txt' for reading
[hadoop@ip-172-31-7-153 ~]$ hadoop fs -ls /user/csp554-2
Found 2 items
-rw-r--r-- 1 hadoop hdfsadmingroup 21 2022-09-15 01:21 /user/csp554-2/A20496724.txt
-rw-r--r-- 1 hadoop hdfsadmingroup 23 2022-09-15 01:15 /user/csp554-2/kajolshah.txt
[hadoop@ip-172-31-7-153 ~]$
```

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

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

Write down the command you executed and also take a screen snapshot of the listed content of the file and include it in your assignment submission.

Ans.\$ hadoop fs -cat /user/csp554-2/A20496724.txt

```
[hadoop@ip-172-31-7-153 ~]$ hadoop fs -cat /user/csp554-2/A20496724.txt this is the id file [hadoop@ip-172-31-7-153 ~]$
```

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.

Write down the command you executed, then list the content of the /user/csp554-2 HDFS directory and take a screen snapshot of the listed content of the directory and include it in your assignment submission.

Ans. \$ hadoop fs -rm /user/csp554-2/A20496724.txt

```
[hadoop@ip-172-31-7-153 ~]$ hadoop fs -rm /user/csp554-2/A20496724.txt
Deleted /user/csp554-2/A20496724.txt
[hadoop@ip-172-31-7-153 ~]$ hadoop fs -ls /user/csp554-2
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmingroup 23 2022-09-15 01:15 /user/csp554-2/kajolshah.txt
[hadoop@ip-172-31-7-153 ~]$ ■
```