

Commands and Screenshots

9.

e. Create an S3 bucket
assume it is called m
of AWS)

f. Using the technique
bucket into an object
of this document we

The next part of the assignment
system and S3. At last!!

9. (2 points) Execute the following
indicating which is a file and

hadoop fs -ls /

Take a screen snapshot of names
assignment submission.

10. (2 points) Execute a command
under the hdfs directory list

/user

Write down the command you e
directories that are listed and include it in your assignment submission.

```
hadoop@ip-172-31-9-162:~$  
-libjars <jar1,...>          specify a comma-separated list of jar files to be included in the classpath  
-archives <archive1,...>     specify a comma-separated list of archives to be unarchived on the compute machines  
  
The general command line syntax is:  
command [genericOptions] [commandOptions]  
  
hadoop@ip-172-31-9-162 ~]$ hadoop -ls  
Error: No command named '-ls' was found. Perhaps you meant 'hadoop ls'  
hadoop@ip-172-31-9-162 ~]$ hadoop fs -ls  
hadoop@ip-172-31-9-162 ~]$ hadoop fs -ls /  
Found 4 items  
drwxr-xr-x - hdfs hdfsadmingroup 0 2022-09-11 13:47 /apps  
drwxrwxrwt - hdfs hdfsadmingroup 0 2022-09-11 13:50 /tmp  
drwxr-xr-x - hdfs hdfsadmingroup 0 2022-09-11 13:47 /user  
drwxr-xr-x - hdfs hdfsadmingroup 0 2022-09-11 13:47 /var  
hadoop@ip-172-31-9-162 ~]$
```

10. list files and dir under USER

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

/user/csp554

```
hadoop@ip-172-31-9-162:~$  
-libjars <jar1,...>          specify a comma-separated list of jar files to be included in the classpath  
-archives <archive1,...>     specify a comma-separated list of archives to be unarchived on the compute machines  
  
The general command line syntax is:  
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hadoop@ip-172-31-9-162 ~]$ hadoop -ls  
Error: No command named '-ls' was found. Perhaps you meant 'hadoop ls'  
hadoop@ip-172-31-9-162 ~]$ hadoop fs -ls  
hadoop@ip-172-31-9-162 ~]$ hadoop fs -ls /  
Found 4 items  
drwxr-xr-x - hdfs hdfsadmingroup 0 2022-09-11 13:47 /apps  
drwxrwxrwt - hdfs hdfsadmingroup 0 2022-09-11 13:50 /tmp  
drwxr-xr-x - hdfs hdfsadmingroup 0 2022-09-11 13:47 /user  
drwxr-xr-x - hdfs hdfsadmingroup 0 2022-09-11 13:47 /var  
hadoop@ip-172-31-9-162 ~]$ /user  
-bash: /user: No such file or directory  
hadoop@ip-172-31-9-162 ~]$ hadoop fs -ls /user  
Found 6 items  
drwxrwxrwx - hadoop hdfsadmingroup 0 2022-09-11 13:47 /user/hadoop  
drwxr-xr-x - mapred mapred 0 2022-09-11 13:47 /user/history  
drwxrwxrwx - hdfs hdfsadmingroup 0 2022-09-11 13:47 /user/hive  
drwxrwxrwx - hue hue 0 2022-09-11 13:47 /user/hue  
drwxrwxrwx - oozie oozie 0 2022-09-11 13:50 /user/oozie  
drwxrwxrwx - root hdfsadmingroup 0 2022-09-11 13:47 /user/root  
hadoop@ip-172-31-9-162 ~]$
```

11. /user/csp554

Cmd: `hadoop fs -mkdir -p /user/csp554`

```
hadoop@ip-172-31-9-162:~  
-archives <archive1,...> specify a comma-separated list of archives to be unarchived on the compute machines  
The general command line syntax is:  
command [genericOptions] [commandOptions]  
[hadoop@ip-172-31-9-162 ~]$ hadoop fs -ls /mkdir -p /user/csp554  
ls: '/mkdir': No such file or directory  
ls: '-p': No such file or directory  
ls: '/user/csp554': No such file or directory  
[hadoop@ip-172-31-9-162 ~]$ hadoop fs -ls /mkdir -p /user/csp554  
Found 4 items  
drwxr-xr-x - hdfs hdfsadmingroup 0 2022-09-11 13:47 /apps  
drwxrwxrwt - hdfs hdfsadmingroup 0 2022-09-11 13:50 /tmp  
drwxr-xr-x - hdfs hdfsadmingroup 0 2022-09-11 13:47 /user  
drwxr-xr-x - hdfs hdfsadmingroup 0 2022-09-11 13:47 /var  
ls: '/mkdir': No such file or directory  
ls: '-p': No such file or directory  
ls: '/user/csp554': No such file or directory  
[hadoop@ip-172-31-9-162 ~]$ hadoop fs -mkdir -p /user/csp554  
[hadoop@ip-172-31-9-162 ~]$ hadoop fs -ls /user  
Found 7 items  
drwxr-xr-x - hadoop hdfsadmingroup 0 2022-09-11 14:15 /user/csp554  
drwxrwxrwx - hadoop hdfsadmingroup 0 2022-09-11 13:47 /user/hadoop  
drwxr-xr-x - mapred mapred 0 2022-09-11 13:47 /user/history  
drwxrwxrwx - hdfs hdfsadmingroup 0 2022-09-11 13:47 /user/hive  
drwxrwxrwx - hue hue 0 2022-09-11 13:47 /user/hue  
drwxrwxrwx - oozie oozie 0 2022-09-11 13:50 /user/oozie  
drwxrwxrwx - root hdfsadmingroup 0 2022-09-11 13:47 /user/root  
[hadoop@ip-172-31-9-162 ~]$
```

12. /user/csp554-2

Cmd: `hadoop fs -mkdir -p /user/csp554-2`

```
hadoop@ip-172-31-9-162:~  
Found 4 items  
drwxr-xr-x - hdfs hdfsadmingroup 0 2022-09-11 13:47 /apps  
drwxrwxrwt - hdfs hdfsadmingroup 0 2022-09-11 13:50 /tmp  
drwxr-xr-x - hdfs hdfsadmingroup 0 2022-09-11 13:47 /user  
drwxr-xr-x - hdfs hdfsadmingroup 0 2022-09-11 13:47 /var  
ls: '/mkdir': No such file or directory  
ls: '-p': No such file or directory  
ls: '/user/csp554': No such file or directory  
[hadoop@ip-172-31-9-162 ~]$ hadoop fs -mkdir -p /user/csp554  
[hadoop@ip-172-31-9-162 ~]$ hadoop fs -ls /user  
Found 7 items  
drwxr-xr-x - hadoop hdfsadmingroup 0 2022-09-11 14:15 /user/csp554  
drwxrwxrwx - hadoop hdfsadmingroup 0 2022-09-11 13:47 /user/hadoop  
drwxr-xr-x - mapred mapred 0 2022-09-11 13:47 /user/history  
drwxrwxrwx - hdfs hdfsadmingroup 0 2022-09-11 13:47 /user/hive  
drwxrwxrwx - hue hue 0 2022-09-11 13:47 /user/hue  
drwxrwxrwx - oozie oozie 0 2022-09-11 13:50 /user/oozie  
drwxrwxrwx - root hdfsadmingroup 0 2022-09-11 13:47 /user/root  
[hadoop@ip-172-31-9-162 ~]$ hadoop fs -mkdir -p /user/csp554-2  
[hadoop@ip-172-31-9-162 ~]$ hadoop fs -ls /user  
Found 8 items  
drwxr-xr-x - hadoop hdfsadmingroup 0 2022-09-11 14:15 /user/csp554  
drwxr-xr-x - hadoop hdfsadmingroup 0 2022-09-11 14:18 /user/csp554-2  
drwxrwxrwx - hadoop hdfsadmingroup 0 2022-09-11 13:47 /user/hadoop  
drwxr-xr-x - mapred mapred 0 2022-09-11 13:47 /user/history  
drwxrwxrwx - hdfs hdfsadmingroup 0 2022-09-11 13:47 /user/hive  
drwxrwxrwx - hue hue 0 2022-09-11 13:47 /user/hue  
drwxrwxrwx - oozie oozie 0 2022-09-11 13:50 /user/oozie  
drwxrwxrwx - root hdfsadmingroup 0 2022-09-11 13:47 /user/root  
[hadoop@ip-172-31-9-162 ~]$
```

13. Execute a command that copies a given local file to the given hdfs directory

Cmd:

`hadoop fs -copyFromLocal -p /home/Hadoop/RameshChandraReddyMusilanna.txt /usr/csp554`

```
na
ry
je
Usage: hadoop fs [generic options] -copyFromLocal [-f] [-p] [-l] [-d] <localsrc> ... <dst>
[hadoop@ip-172-31-11-76 ~]$ hadoop fs -copyFromLocal -p /home/hadoop/RameshChandraReddyMusilanna.txt ... /usr/csp554
copyFromLocal: `...': No such file or directory
[hadoop@ip-172-31-11-76 ~]$ hadoop fs -copyFromLocal -p /home/hadoop/RameshChandraReddyMusilanna.txt /usr/csp554
copyFromLocal: `/usr/csp554/RameshChandraReddyMusilanna.txt': File exists
[hadoop@ip-172-31-11-76 ~]$
```

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

Cmd: `Hadoop fs -mv /usr/csp554/RameshChandraReddyMusilanna.txt /usr/csp554-2`

```
drwxr-xr-x - hdfs hdfsadmingroup 0 2022-09-12 01:41 /apps
drwxrwxrwt - hdfs hdfsadmingroup 0 2022-09-12 01:42 /tmp
drwxr-xr-x - hdfs hdfsadmingroup 0 2022-09-12 01:41 /user
drwxr-xr-x - hadoop hdfsadmingroup 0 2022-09-12 01:42 /usr
drwxr-xr-x - hdfs hdfsadmingroup 0 2022-09-12 01:41 /var
[hadoop@ip-172-31-11-76 ~]$ hadoop fs -ls /usr/csp554
Found 1 items
-rw-rw-r-- 1 hadoop hadoop 30 2022-09-12 02:12 /usr/csp554/RameshChandraReddyMusilanna.txt
[hadoop@ip-172-31-11-76 ~]$ hadoop fs -mv /usr/csp554/RameshChandraReddyMusilanna.txt /usr/csp554-2
[hadoop@ip-172-31-11-76 ~]$ hadoop fs -ls /usr/csp554-2
Found 1 items
-rw-rw-r-- 1 hadoop hadoop 30 2022-09-12 02:12 /usr/csp554-2/RameshChandraReddyMusilanna.txt
[hadoop@ip-172-31-11-76 ~]$
```

15. Copy the object myid.txt you uploaded to an S3 bucket into the Hadoop master node Linux file system

Cmd: `aws s3 cp s3://a20521309.txt /home/Hadoop/A20521209.txt`

```
install-Cliv2.m4
usage: aws [options] <command> <subcommand> [<subcommand> ...] [parameters]
To see help text, you can run:

    aws help
    aws <command> help
    aws <command> <subcommand> help
aws: error: argument subcommand: Invalid choice, valid choices are:

ls                               | website
cp                               | mv
rm                               | sync
mb                               | rb
presign

[hadoop@ip-172-31-11-76 ~]$ aws s3 cp s3://a20521309-hw2/A20521309.txt /home/hadoop/A20521209.txt
download: s3://a20521309-hw2/A20521309.txt to ./A20521209.txt
[hadoop@ip-172-31-11-76 ~]$
```

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

Cmd: Hadoop fs -cp s3://a20521209.txt hdfs:///usr/csp554-2

Hadoop fs -ls /usr/csp554-2

```
drwxrwxrwt - hdfs hdfsadmingroup 0 2022-09-12 01:41 /user/hive/warehouse
h [hadoop@ip-172-31-11-76 ~]$ hadoop fs -ls /user/root
[hadoop@ip-172-31-11-76 ~]$ hadoop fs -cp s3://a20521309-hw2/A20521309.txt hdfs:///usr/csp554-2
cp: com.amazon.ws.emr.hadoop.fs.shaded.com.amazonaws.services.s3.model.AmazonS3Exception: The specified bucket does
exist (Service: Amazon S3; Status Code: 404; Error Code: NoSuchBucket; Request ID: BTYTM15ZDEEWBDD; S3 Extended Re
ID: P719eaKEoeQcGddAxHjDbIWw5cu1rwbsBa7aZpEfe7T0pMHSBEZii8wqJ/dcnqwNK3VSlCWFrBc=; Proxy: null), S3 Extended Reque
P719eaKEoeQcGddAxHjDbIWw5cu1rwbsBa7aZpEfe7T0pMHSBEZii8wqJ/dcnqwNK3VSlCWFrBc=
is [hadoop@ip-172-31-11-76 ~]$ hadoop fs -cp s3://a20521309-hw2/A20521309.txt hdfs:///usr/csp554-2
22/09/12 02:45:29 INFO s3n.S3NativeFileSystem: Opening 's3://a20521309-hw2/A20521309.txt' for reading
[hadoop@ip-172-31-11-76 ~]$ hadoop fs -ls /usr/csp554-2
Found 2 items
-rw-r--r-- 1 hadoop hdfsadmingroup 9 2022-09-12 02:45 /usr/csp554-2/A20521309.txt
-rw-rw-r-- 1 hadoop hadoop 30 2022-09-12 02:12 /usr/csp554-2/RameshChandraReddyMusilanna.txt
[hadoop@ip-172-31-11-76 ~]$
```