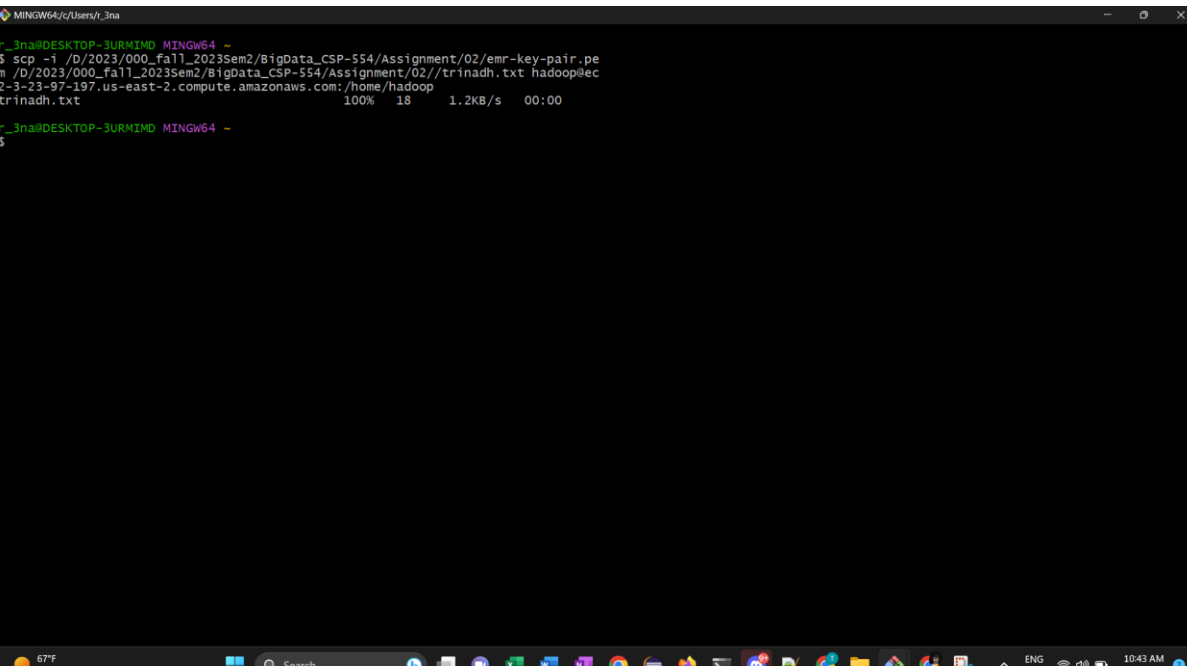


TRINADH RAYALA(A20528281)

1) Hadoop Cluster Connection with git by using ssh key pair

[illegible]

"trinadh.txt"(myName.txt) file copied to Hadoop cluster



The screenshot shows a Windows terminal window titled "MINGW64/c:/Users/r_3na". The user is at the prompt "r_3na@DESKTOP-3URMIMD MINGW64 ~". They execute the command: `$ scp -i /D/2023/000_fall_2023Sem2/BigData_CSP-554/Assignment/02/emr-key-pair.pem /D/2023/000_fall_2023Sem2/BigData_CSP-554/Assignment/02/trinadh.txt hadoop@ec2-3-23-97-197.us-east-2.compute.amazonaws.com:/home/hadoop`. The output shows the file "trinadh.txt" being transferred at 1.2KB/s, with 100% completion, 18 seconds remaining, and a total size of 00:00. The prompt then changes to "r_3na@DESKTOP-3URMIMD MINGW64 ~". The Windows taskbar at the bottom shows the date as 9/15/2023 and the time as 10:43 AM.

```

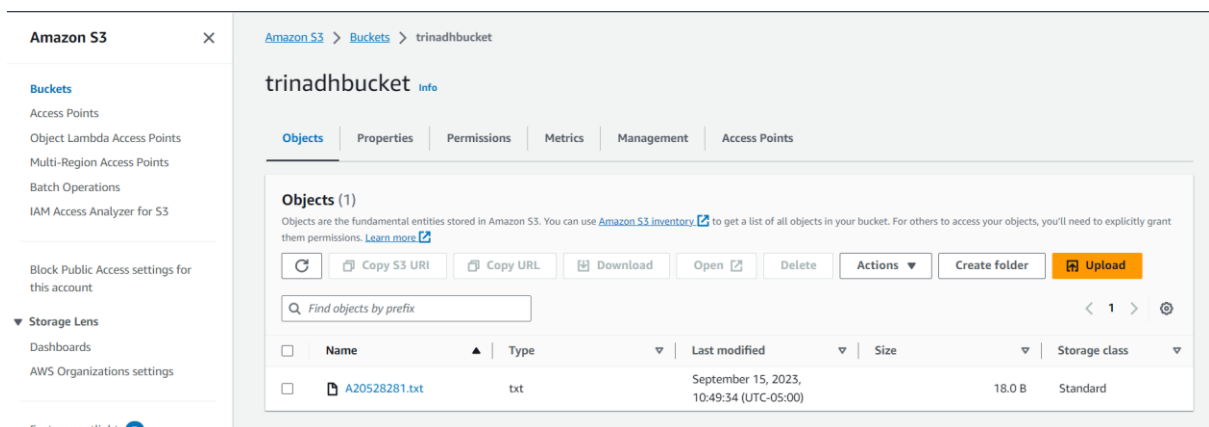
MINGW64/c:/Users/r_3na
r_3na@DESKTOP-3URMIMD MINGW64 ~
$ scp -i /D/2023/000_fall_2023Sem2/BigData_CSP-554/Assignment/02/emr-key-pair.
pem /D/2023/000_fall_2023Sem2/BigData_CSP-554/Assignment/02/trinadh.txt hadoop@ec
2-3-23-97-197.us-east-2.compute.amazonaws.com:/home/hadoop
trinadh.txt                                100%  18      1.2KB/s   00:00

r_3na@DESKTOP-3URMIMD MINGW64 ~
$

```

```
hadoop@ip-172-31-21-187:~  
[hadoop@ip-172-31-21-187 ~]$ hadoop fs -ls  
[hadoop@ip-172-31-21-187 ~]$ ls -a  
. . .aws .bash_profile .bashrc .cache .ssh trinadh.txt  
[hadoop@ip-172-31-21-187 ~]$ ls  
trinadh.txt  
[hadoop@ip-172-31-21-187 ~]$ |
```

Uploaded A20528281.txt("myid.txt") file into the s3 storage bucket(trinadhbucket)



Commands

9) to list the files or directories : **"Hadoop fs -ls /"**

```
hadoop@ip-172-31-21-187:~  
[hadoop@ip-172-31-21-187 ~]$ hadoop fs -ls  
[hadoop@ip-172-31-21-187 ~]$ hadoop fs -ls /  
Found 4 items  
drwxr-xr-x - hdfs hdfsadmingroup 0 2023-09-15 15:35 /apps  
drwxrwxrwt - hdfs hdfsadmingroup 0 2023-09-15 15:39 /tmp  
drwxr-xr-x - hdfs hdfsadmingroup 0 2023-09-15 15:35 /user  
drwxr-xr-x - hdfs hdfsadmingroup 0 2023-09-15 15:35 /var  
[hadoop@ip-172-31-21-187 ~]$
```

10) find the files under user directory : **hadoop fs -ls /user**

```
hadoop@ip-172-31-21-187:~
[hadoop@ip-172-31-21-187 ~]$ hadoop fs -ls /user
Found 6 items
drwxrwxrwx - hadoop hdfsadmingroup 0 2023-09-15 15:35 /user/hadoop
drwxr-xr-x - mapred mapred 0 2023-09-15 15:35 /user/history
drwxrwxrwx - hdfs hdfsadmingroup 0 2023-09-15 15:35 /user/hive
drwxrwxrwx - hue hue 0 2023-09-15 15:35 /user/hue
drwxrwxrwx - oozie oozie 0 2023-09-15 15:38 /user/oozie
drwxrwxrwx - root hdfsadmingroup 0 2023-09-15 15:35 /user/root
[hadoop@ip-172-31-21-187 ~]$
```

11) To create csp554 folder under user directory : **hadoop fs -mkdir /user/csp554**

```
hadoop@ip-172-31-21-187:~
[hadoop@ip-172-31-21-187 ~]$ hadoop fs -mkdir /user/csp554
[hadoop@ip-172-31-21-187 ~]$ ls
trinadh.txt
[hadoop@ip-172-31-21-187 ~]$ hadoop fs -ls /user
Found 7 items
drwxr-xr-x - hadoop hdfsadmingroup 0 2023-09-15 15:58 /user/csp554
drwxrwxrwx - hadoop hdfsadmingroup 0 2023-09-15 15:35 /user/hadoop
drwxr-xr-x - mapred mapred 0 2023-09-15 15:35 /user/history
drwxrwxrwx - hdfs hdfsadmingroup 0 2023-09-15 15:35 /user/hive
drwxrwxrwx - hue hue 0 2023-09-15 15:35 /user/hue
drwxrwxrwx - oozie oozie 0 2023-09-15 15:38 /user/oozie
drwxrwxrwx - root hdfsadmingroup 0 2023-09-15 15:35 /user/root
[hadoop@ip-172-31-21-187 ~]$
```

12) **hadoop fs -mkdir /user/csp554-2**

```
hadoop@ip-172-31-21-187:~
[hadoop@ip-172-31-21-187 ~]$ hadoop fs -mkdir /user/csp554-2
[hadoop@ip-172-31-21-187 ~]$ hadoop fs -ls /user
Found 8 items
drwxr-xr-x - hadoop hdfsadmingroup 0 2023-09-15 15:58 /user/csp554
drwxr-xr-x - hadoop hdfsadmingroup 0 2023-09-15 15:59 /user/csp554-2
drwxrwxrwx - hadoop hdfsadmingroup 0 2023-09-15 15:35 /user/hadoop
drwxr-xr-x - mapred mapred 0 2023-09-15 15:35 /user/history
drwxrwxrwx - hdfs hdfsadmingroup 0 2023-09-15 15:35 /user/hive
drwxrwxrwx - hue hue 0 2023-09-15 15:35 /user/hue
drwxrwxrwx - oozie oozie 0 2023-09-15 15:38 /user/oozie
drwxrwxrwx - root hdfsadmingroup 0 2023-09-15 15:35 /user/root
[hadoop@ip-172-31-21-187 ~]$ |
```

13) **Hadoop fs -put /home/Hadoop/trinadh.txt /user/csp554**

Hadoop fs sourceLocation to destinationLocation

```

hadoop@ip-172-31-21-187:~
[hadoop@ip-172-31-21-187 ~]$ hadoop fs -mkdir /user/csp554-2
[hadoop@ip-172-31-21-187 ~]$ hadoop fs -ls /user
Found 8 items
drwxr-xr-x - hadoop hdfsadmingroup 0 2023-09-15 15:58 /user/csp554
drwxr-xr-x - hadoop hdfsadmingroup 0 2023-09-15 15:59 /user/csp554-2
drwxrwxrwx - hadoop hdfsadmingroup 0 2023-09-15 15:35 /user/hadoop
drwxr-xr-x - mapred mapred 0 2023-09-15 15:35 /user/history
drwxrwxrwx - hdfs hdfsadmingroup 0 2023-09-15 15:35 /user/hive
drwxrwxrwx - hue hue 0 2023-09-15 15:35 /user/hue
drwxrwxrwx - oozie oozie 0 2023-09-15 15:38 /user/oozie
drwxrwxrwx - root hdfsadmingroup 0 2023-09-15 15:35 /user/root
[hadoop@ip-172-31-21-187 ~]$ hadoop fs -put /home/hadoop/trinadh.txt /user/csp554
[hadoop@ip-172-31-21-187 ~]$ hadoop fs -ls /user
Found 8 items
drwxr-xr-x - hadoop hdfsadmingroup 0 2023-09-15 16:05 /user/csp554
drwxr-xr-x - hadoop hdfsadmingroup 0 2023-09-15 15:59 /user/csp554-2
drwxrwxrwx - hadoop hdfsadmingroup 0 2023-09-15 15:35 /user/hadoop
drwxr-xr-x - mapred mapred 0 2023-09-15 15:35 /user/history
drwxrwxrwx - hdfs hdfsadmingroup 0 2023-09-15 15:35 /user/hive
drwxrwxrwx - hue hue 0 2023-09-15 15:35 /user/hue
drwxrwxrwx - oozie oozie 0 2023-09-15 15:38 /user/oozie
drwxrwxrwx - root hdfsadmingroup 0 2023-09-15 15:35 /user/root
[hadoop@ip-172-31-21-187 ~]$ hadoop fs -ls /user/csp554
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmingroup 18 2023-09-15 16:05 /user/csp554/trinadh.txt
[hadoop@ip-172-31-21-187 ~]$ |

```

14)Hadoop fs -cp /user/csp554/trinadh.txt /user/csp554-2

```

[hadoop@ip-172-31-21-187 ~]$ hadoop fs -cp /user/csp554/trinadh.txt /user/csp554-2
[hadoop@ip-172-31-21-187 ~]$ hadoop fs -ls /user/csp554-2
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmingroup 18 2023-09-15 16:07 /user/csp554-2/trinadh.txt
[hadoop@ip-172-31-21-187 ~]$ |

```

15)aws s3 cp s3://trinadhbucket/A20528281.txt /hom/Hadoop/A20528281.txt

```

hadoop@ip-172-31-28-101:~
[hadoop@ip-172-31-28-101 ~]$ aws s3 cp s3://trinadhbucket/A20528281.txt /home/hadoop/A20528281.txt
download: s3://trinadhbucket/A20528281.txt to ./A20528281.txt
[hadoop@ip-172-31-28-101 ~]$ |

```

```

hadoop@ip-172-31-28-101:~
[hadoop@ip-172-31-28-101 ~]$ aws s3 cp s3://trinadhbucket/A20528281.txt /home/hadoop/A20528281.txt
download: s3://trinadhbucket/A20528281.txt to ./A20528281.txt
[hadoop@ip-172-31-28-101 ~]$ ls /home/hadoop
A20528281.txt trinadh.txt
[hadoop@ip-172-31-28-101 ~]$

```

16) hadoop fs -cp s3://trinadhbucket/A20528281.txt hdfs:///user/csp554-2

```

hadoop@ip-172-31-28-101:~
[hadoop@ip-172-31-28-101 ~]$ aws s3 cp s3://trinadhbucket/A20528281.txt /home/hadoop/A20528281.txt
download: s3://trinadhbucket/A20528281.txt to ./A20528281.txt
[hadoop@ip-172-31-28-101 ~]$ ls /home/hadoop
A20528281.txt  trinadh.txt
[hadoop@ip-172-31-28-101 ~]$ hadoop fs -cp s3://trinadhbucket/A20528281.txt hdfs://user/csp554-2
2023-09-15 16:53:07,352 INFO s3n.S3NativeFileSystem: Opening 's3://trinadhbucket/A20528281.txt' for read
[hadoop@ip-172-31-28-101 ~]$ ls
A20528281.txt  trinadh.txt
[hadoop@ip-172-31-28-101 ~]$ hadoop fs -ls /user/csp554-2
Found 3 items
-rw-r--r-- 1 hadoop hdfsadmingroup 18 2023-09-15 16:53 /user/csp554-2/A20528281.txt
drwxr-xr-x - hadoop hdfsadmingroup 0 2023-09-15 16:49 /user/csp554-2/csp554
-rw-r--r-- 1 hadoop hdfsadmingroup 18 2023-09-15 16:49 /user/csp554-2/trinadh.txt
[hadoop@ip-172-31-28-101 ~]$

```

17)Hadoop fs -cat /user/csp554-2/A20528281.txt

```

[hadoop@ip-172-31-28-101 ~]$ hadoop fs -cat /user/csp554-2/A20528281.txt
my id is A20528281[hadoop@ip-172-31-28-101 ~]$

```

18)Hadoop fs -rm /user/csp554-2/A20528281.txt

```

my id is A20528281[hadoop@ip-172-31-28-101 ~]$ hadoop fs -rm /user/csp554-2/A20528281.txt
Deleted /user/csp554-2/A20528281.txt
[hadoop@ip-172-31-28-101 ~]$ hadoop fs -ls /user/csp554-2
Found 2 items
drwxr-xr-x - hadoop hdfsadmingroup 0 2023-09-15 16:49 /user/csp554-2/csp554
-rw-r--r-- 1 hadoop hdfsadmingroup 18 2023-09-15 16:49 /user/csp554-2/trinadh.txt
[hadoop@ip-172-31-28-101 ~]$ |

```

Thank you,

Trinadh Rayala,

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A20528281.