

ASSIGNMENT-02

1)

```
Last login: Sat Jan 22 16:14:18 on ttys000
((base) rahulmaddula@rahuls-Air ~ % cd Downloads
((base) rahulmaddula@rahuls-Air Downloads % ssh -i emr-key-pair.pem hadoop@ec2-3-239-111-135.compute-1.amazonaws.com
Last login: Sat Jan 22 22:15:45 2022

  _ _ | _ _ | _ _ )
 _ | ( _ _ /      Amazon Linux 2 AMI
---| \ _ _ | _ _ |

https://aws.amazon.com/amazon-linux-2/
21 package(s) needed for security, out of 26 available
Run "sudo yum update" to apply all updates.
-bash: warning: setlocale: LC_CTYPE: cannot change locale (UTF-8): No such file or directory

EEEEEEEEEEEEEEEEEEEE MMMMMMM      MMMMMMM RRRRRRRRRRRRRRR
E::::::::::::::::::::E M::::::::M      M::::::::M R:::::::::R
EE::::::::EEEEEEEE::::E M::::::::M      M::::::::M R::::RRRRR::::R
E::::E      EEEEE M::::::::M      M::::::::M RR::::R      R::::R
E::::E      M::::::::M M::M M::M M::M M::M M::M R::R      R::R
E::::EEEEEEEEEE M::M M::M M::M M::M M::M R::RRRRR::::R
E::::::::::::E M::M M::M M::M M::M M::M R:::::::::RR
E::::EEEEEEEEEE M::M M::M M::M M::M R::RRRRR::::R
E::::E      M::M M::M M::M M::M R::R      R::R
E::::E      EEEEE M::M      MMM M::M M::M R::R      R::R
EE::::EEEEEEEE::::E M::M M::M M::M M::M R::R      R::R
E::::::::::::E M::M M::M M::M RR::::R      R::R
EEEEEEEEEEEEEEEEEEEE MMMMMMM      MMMMMMM RRRRRRR      RRRRRR

[hadoop@ip-172-31-64-150 ~]$ hdfs dfs -ls /
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/share/aws/emr/emrfs/lib/slf4j-log4j12-1.7.12.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
Found 4 items
drwxr-xr-x - hdfs hdfsadmingroup      0 2022-01-22 22:06 /apps
drwxrwxrwt - hdfs hdfsadmingroup      0 2022-01-22 22:09 /tmp
drwxr-xr-x - hdfs hdfsadmingroup      0 2022-01-22 22:06 /user
drwxr-xr-x - hdfs hdfsadmingroup      0 2022-01-22 22:06 /var
[hadoop@ip-172-31-64-150 ~]$
```

Command Executed: hdfs dfs -ls /

2)

```
[hadoop@ip-172-31-64-150 ~]$ hdfs dfs -ls /user
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/share/aws/emr/emrfs/lib/slf4j-log4j12-1.7.12.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
Found 6 items
drwxrwxrwx - hadoop hdfsadmingroup      0 2022-01-22 22:06 /user/hadoop
drwxr-xr-x - mapred mapred              0 2022-01-22 22:06 /user/history
drwxrwxrwx - hdfs hdfsadmingroup      0 2022-01-22 22:06 /user/hive
drwxrwxrwx - hue hue                  0 2022-01-22 22:06 /user/hue
drwxrwxrwx - oozie oozie              0 2022-01-22 22:09 /user/oozie
drwxrwxrwx - root hdfsadmingroup      0 2022-01-22 22:06 /user/root
[hadoop@ip-172-31-64-150 ~]$
```

Command Executed: hdfs dfs -ls /user

3)

```
[hadoop@ip-172-31-64-150 ~]$ hdfs dfs -mkdir /user/csp554
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/share/aws/emr/emrfs/lib/slf4j-log4j12-1.7.12.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
[hadoop@ip-172-31-64-150 ~]$ hdfs dfs -ls /user
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/share/aws/emr/emrfs/lib/slf4j-log4j12-1.7.12.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
Found 7 items
drwxr-xr-x - hadoop hdfsadmingroup 0 2022-01-22 22:23 /user/csp554
drwxrwxrwx - hadoop hdfsadmingroup 0 2022-01-22 22:06 /user/hadoop
drwxr-xr-x - mapred mapred 0 2022-01-22 22:06 /user/history
drwxrwxrwx - hdfs hdfsadmingroup 0 2022-01-22 22:06 /user/hive
drwxrwxrwx - hue hue 0 2022-01-22 22:06 /user/hue
drwxrwxrwx - oozie oozie 0 2022-01-22 22:09 /user/oozie
drwxrwxrwx - root hdfsadmingroup 0 2022-01-22 22:06 /user/root
[hadoop@ip-172-31-64-150 ~]$
```

Command Executed: hdfs dfs -mkdir /user/csp554

4)

```
[hadoop@ip-172-31-64-150 ~]$ hdfs dfs -mkdir /user/csp554-2
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/share/aws/emr/emrfs/lib/slf4j-log4j12-1.7.12.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
[hadoop@ip-172-31-64-150 ~]$ hdfs dfs -ls /user
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/share/aws/emr/emrfs/lib/slf4j-log4j12-1.7.12.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
Found 8 items
drwxr-xr-x - hadoop hdfsadmingroup 0 2022-01-22 22:23 /user/csp554
drwxr-xr-x - hadoop hdfsadmingroup 0 2022-01-22 22:23 /user/csp554-2
drwxrwxrwx - hadoop hdfsadmingroup 0 2022-01-22 22:06 /user/hadoop
drwxr-xr-x - mapred mapred 0 2022-01-22 22:06 /user/history
drwxrwxrwx - hdfs hdfsadmingroup 0 2022-01-22 22:06 /user/hive
drwxrwxrwx - hue hue 0 2022-01-22 22:06 /user/hue
drwxrwxrwx - oozie oozie 0 2022-01-22 22:09 /user/oozie
drwxrwxrwx - root hdfsadmingroup 0 2022-01-22 22:06 /user/root
[hadoop@ip-172-31-64-150 ~]$
```

Command Executed: hdfs dfs -mkdir /user/csp554-2

5)

```
[hadoop@ip-172-31-64-150 ~]$ hdfs dfs -copyFromLocal rahulmaddula.txt /user/csp554
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/share/aws/emr/emrfs/lib/slf4j-log4j12-1.7.12.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
[hadoop@ip-172-31-64-150 ~]$ hdfs dfs -ls /user/csp554
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/share/aws/emr/emrfs/lib/slf4j-log4j12-1.7.12.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmingroup 24 2022-01-22 22:24 /user/csp554/rahulmaddula.txt
[hadoop@ip-172-31-64-150 ~]$
```

Command Executed: hdfs dfs -copyFromLocal rahulmaddula.txt /user/csp554

6)

```
[hadoop@ip-172-31-64-150 ~]$ hdfs dfs -cp /user/csp554/rahulmaddula.txt /user/csp554-2
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/share/aws/emr/emrfs/lib/slf4j-log4j12-1.7.12.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
[hadoop@ip-172-31-64-150 ~]$ hdfs dfs -ls /user/csp554-2
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/share/aws/emr/emrfs/lib/slf4j-log4j12-1.7.12.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmin 24 2022-01-22 22:25 /user/csp554-2/rahulmaddula.txt
[hadoop@ip-172-31-64-150 ~]$
```

Command Executed: hdfs dfs -cp /user/csp554/rahulmaddula.txt /user/csp554-2

7)

```
[hadoop@ip-172-31-64-150 ~]$ aws s3 cp s3://mybigdataassignment02/A20488730.txt /home/hadoop/A20488730.txt
download: s3://mybigdataassignment02/A20488730.txt to ./A20488730.txt
[hadoop@ip-172-31-64-150 ~]$ ls /home/hadoop
A20488730.txt rahulmaddula.txt
[hadoop@ip-172-31-64-150 ~]$
```

Command Executed: aws s3 cp s3://mybigdataassignment02/A20488730.txt
/home/hadoop/A20488730.txt

ls /home/hadoop

8)

```
[hadoop@ip-172-31-64-150 ~]$ hadoop fs -cp s3://mybigdataassignment02/A20488730.txt hdfs:///user/csp554-2
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/share/aws/emr/emrfs/lib/slf4j-log4j12-1.7.12.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
22/01/22 22:29:32 INFO s3n.S3NativeFileSystem: Opening 's3://mybigdataassignment02/A20488730.txt' for reading
[hadoop@ip-172-31-64-150 ~]$ hdfs dfs -ls /user/csp554-2
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/share/aws/emr/emrfs/lib/slf4j-log4j12-1.7.12.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
Found 2 items
-rw-r--r-- 1 hadoop hdfsadmin 22 2022-01-22 22:29 /user/csp554-2/A20488730.txt
-rw-r--r-- 1 hadoop hdfsadmin 24 2022-01-22 22:25 /user/csp554-2/rahulmaddula.txt
[hadoop@ip-172-31-64-150 ~]$
```

Command Executed: hadoop fs -cp s3://mybigdataassignment02/A20488730.txt
hdfs:///user/csp554-2

hdfs dfs -ls /user/csp554-2

9)

```
[hadoop@ip-172-31-64-150 ~]$ hdfs dfs -cat /user/csp554-2/A20488730.txt
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/share/aws/emr/emrfs/lib/slf4j-log4j12-1.7.12.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
this is the id file[hadoop@ip-172-31-64-150 ~]$ █
```

Command Executed: hdfs dfs -cat /user/csp554-2/A20488730.txt

10)

```
[hadoop@ip-172-31-64-150 ~]$ hdfs dfs -rm /user/csp554-2/A20488730.txt
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/share/aws/emr/emrfs/lib/slf4j-log4j12-1.7.12.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
Deleted /user/csp554-2/A20488730.txt
[hadoop@ip-172-31-64-150 ~]$ hdfs dfs -ls /user/csp554-2
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/share/aws/emr/emrfs/lib/slf4j-log4j12-1.7.12.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
Found 1 items
-rw-r--r-- 1 hadoop hdfsadmin group      24 2022-01-22 22:25 /user/csp554-2/rahulmaddula.txt
[hadoop@ip-172-31-64-150 ~]$ █
```

Command Executed: hdfs dfs -rm /user/csp554-2/A20488730.txt

hdfs dfs -ls /user/csp554-2