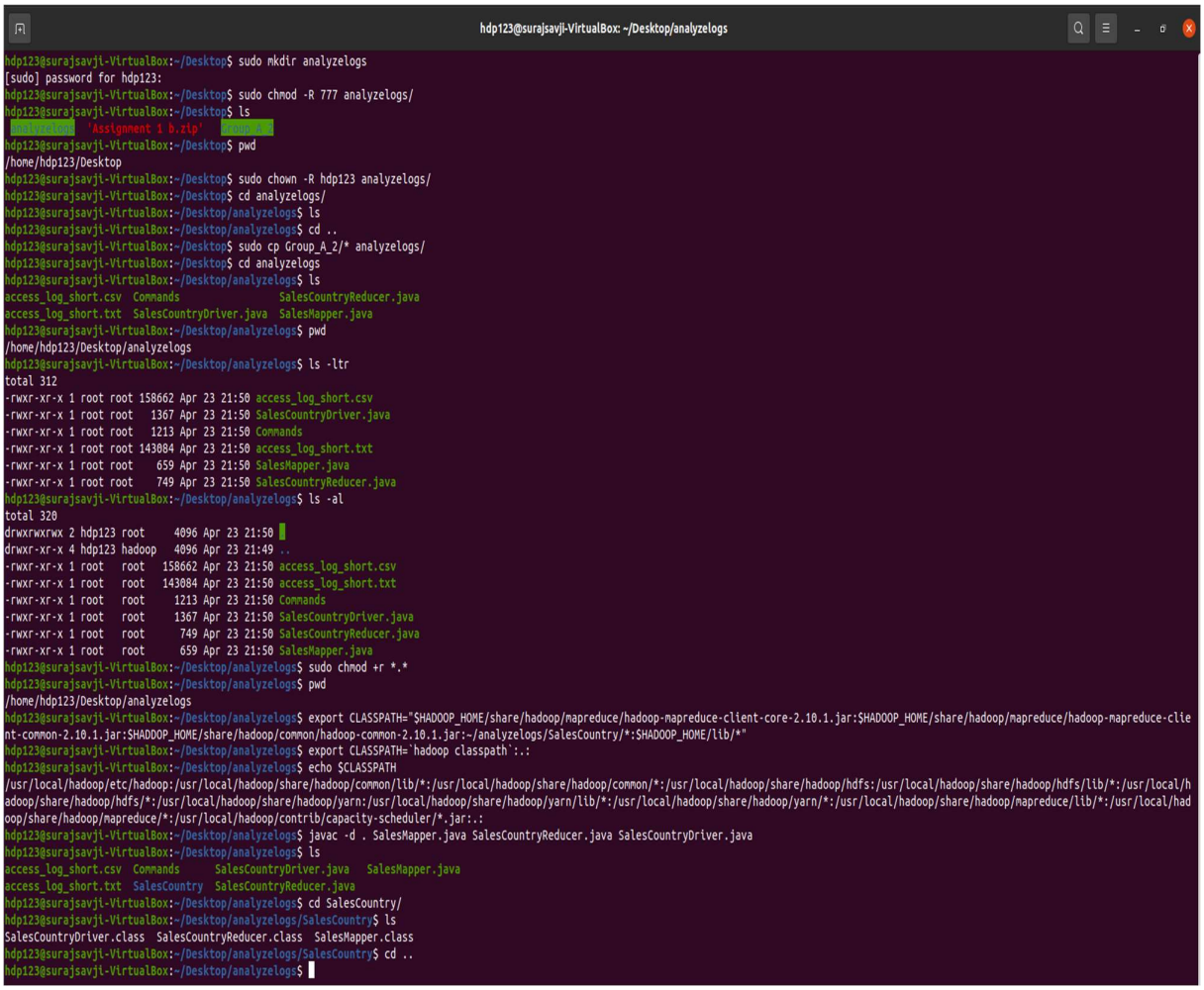
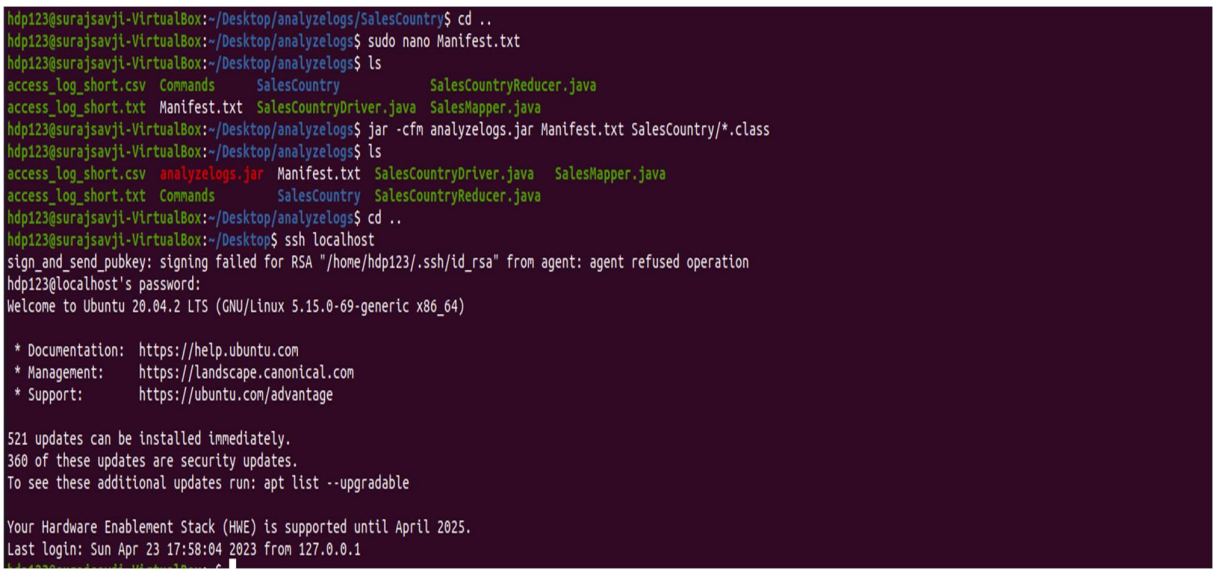
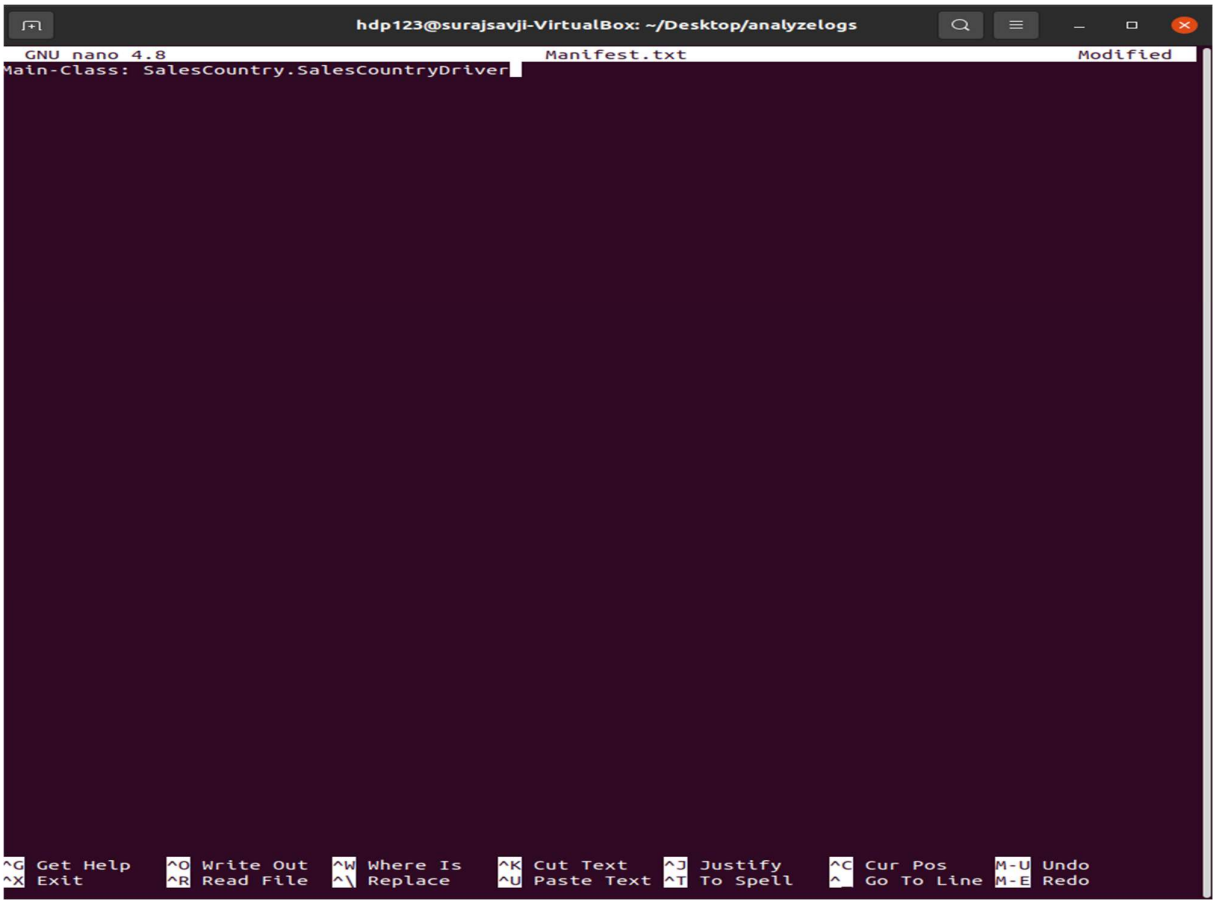
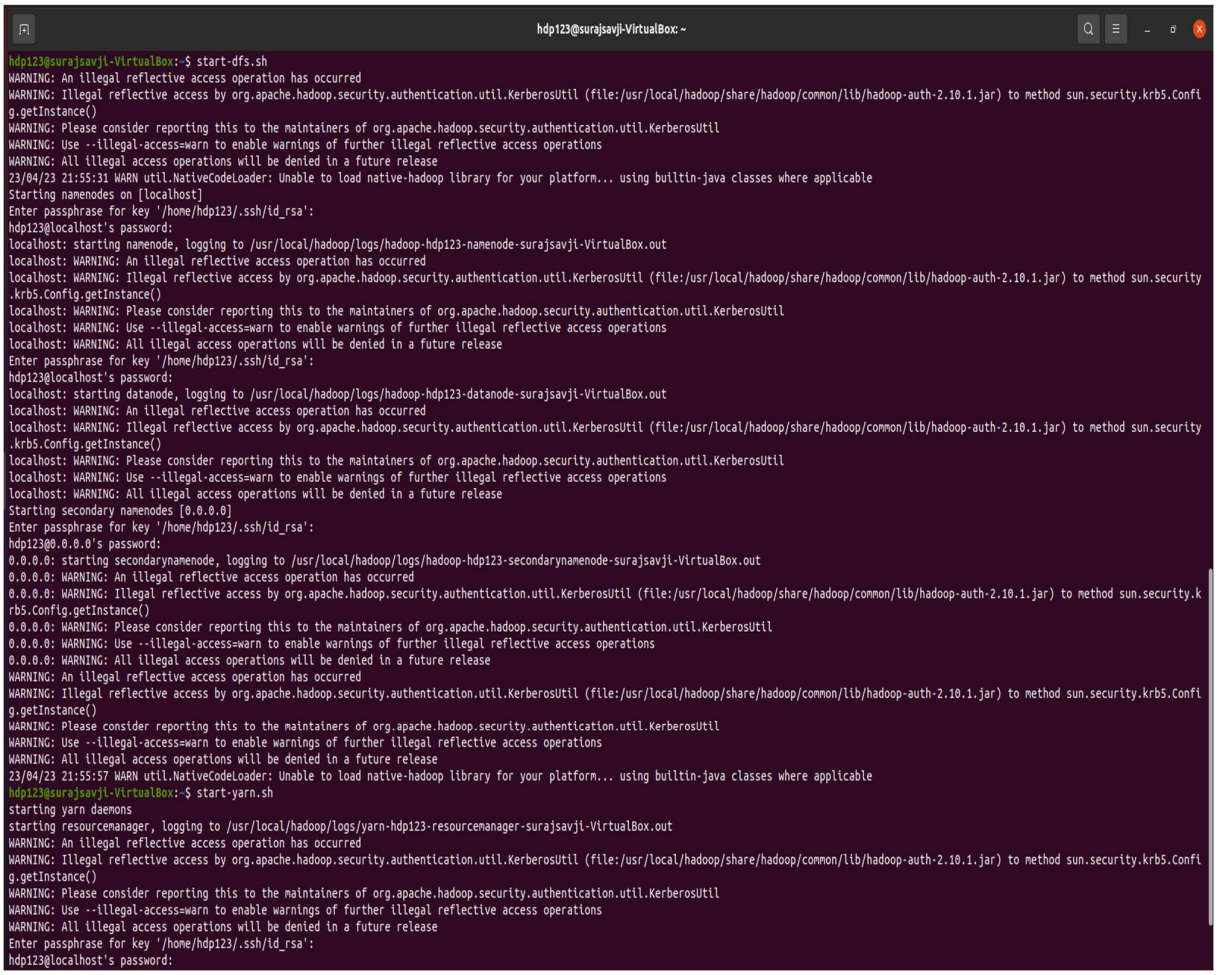

hdp123@surajsavji-VirtualBox: ~/Desktop/analyzelogs
hdp123@surajsavji-VirtualBox:~/Desktop$ sudo mkdir analyzelogs
[sudo] password for hdp123:
hdp123@surajsavji-VirtualBox:~/Desktop$ sudo chmod -R 777 analyzelogs/
hdp123@surajsavji-VirtualBox:~/Desktop$ ls
'Assignment 1 b.zip' Group_A_2
hdp123@surajsavji-VirtualBox:~/Desktop$ pwd
/home/hdp123/Desktop
hdp123@surajsavji-VirtualBox:~/Desktop$ sudo chown -R hdp123 analyzelogs/
hdp123@surajsavji-VirtualBox:~/Desktop$ cd analyzelogs/
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ ls
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ cd ..
hdp123@surajsavji-VirtualBox:~/Desktop$ sudo cp Group_A_2/* analyzelogs/
hdp123@surajsavji-VirtualBox:~/Desktop$ cd analyzelogs
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ ls
access_log_short.csv Commands SalesCountryReducer.java
access_log_short.txt SalesCountryDriver.java SalesMapper.java
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ pwd
/home/hdp123/Desktop/analyzelogs
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ ls -ltr
total 312
-rwxr-xr-x 1 root root 158662 Apr 23 21:50 access_log_short.csv
-rwxr-xr-x 1 root root 1367 Apr 23 21:50 SalesCountryDriver.java
-rwxr-xr-x 1 root root 1213 Apr 23 21:50 Commands
-rwxr-xr-x 1 root root 143084 Apr 23 21:50 access_log_short.txt
-rwxr-xr-x 1 root root 659 Apr 23 21:50 SalesMapper.java
-rwxr-xr-x 1 root root 749 Apr 23 21:50 SalesCountryReducer.java
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ ls -al
total 320
drwxrwxrwx 2 hdp123 root 4096 Apr 23 21:50 .
drwxr-xr-x 4 hdp123 hadoop 4096 Apr 23 21:49 ..
-rwxr-xr-x 1 root root 158662 Apr 23 21:50 access_log_short.csv
-rwxr-xr-x 1 root root 143084 Apr 23 21:50 access_log_short.txt
-rwxr-xr-x 1 root root 1213 Apr 23 21:50 Commands
-rwxr-xr-x 1 root root 1367 Apr 23 21:50 SalesCountryDriver.java
-rwxr-xr-x 1 root root 749 Apr 23 21:50 SalesCountryReducer.java
-rwxr-xr-x 1 root root 659 Apr 23 21:50 SalesMapper.java
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ sudo chmod +r *.*
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ pwd
/home/hdp123/Desktop/analyzelogs
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ export CLASSPATH="$HADOOP_HOME/share/hadoop/mapreduce/hadoop-mapreduce-client-core-2.10.1.jar:$HADOOP_HOME/share/hadoop/mapreduce/hadoop-mapreduce-client-common-2.10.1.jar:$HADDOP_HOME/share/hadoop/common/hadoop-common-2.10.1.jar:~/analyzelogs/SalesCountry/*:$HADOOP_HOME/lib/*"
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ export CLASSPATH=`hadoop classpath`:.:
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ echo $CLASSPATH
/usr/local/hadoop/etc/hadoop:/usr/local/hadoop/share/hadoop/common/lib/*:/usr/local/hadoop/share/hadoop/common/*:/usr/local/hadoop/share/hadoop/hdfs:/usr/local/hadoop/share/hadoop/hdfs/lib/*:/usr/local/hadoop/share/hadoop/hdfs/*:/usr/local/hadoop/share/hadoop/yarn:/usr/local/hadoop/share/hadoop/yarn/lib/*:/usr/local/hadoop/share/hadoop/yarn/*:/usr/local/hadoop/share/hadoop/mapreduce/lib/*:/usr/local/hadoop/share/hadoop/mapreduce/*:/usr/local/hadoop/contrib/capacity-scheduler/*.jar:.:
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ javac -d . SalesMapper.java SalesCountryReducer.java SalesCountryDriver.java
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ ls
access_log_short.csv Commands SalesCountryDriver.java SalesMapper.java
access_log_short.txt SalesCountry SalesCountryReducer.java
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ cd SalesCountry/
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs/SalesCountry$ ls
SalesCountryDriver.class SalesCountryReducer.class SalesMapper.class
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs/SalesCountry$ cd ..
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$


hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs/SalesCountry$ cd ..
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ sudo nano Manifest.txt
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ ls
access_log_short.csv Commands SalesCountry SalesCountryReducer.java
access_log_short.txt Manifest.txt SalesCountryDriver.java SalesMapper.java
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ jar -cfm analyzelogs.jar Manifest.txt SalesCountry/*.class
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ ls
access_log_short.csv analyzelogs.jar Manifest.txt SalesCountryDriver.java SalesMapper.java
access_log_short.txt Commands SalesCountry SalesCountryReducer.java
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ cd ..
hdp123@surajsavji-VirtualBox:~/Desktop$ ssh localhost
sign_and_send_pubkey: signing failed for RSA "/home/hdp123/.ssh/id_rsa" from agent: agent refused operation
hdp123@localhost's password:
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.15.0-69-generic x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
521 updates can be installed immediately.
360 of these updates are security updates.
To see these additional updates run: apt list --upgradable
Your Hardware Enablement Stack (HWE) is supported until April 2025.
Last login: Sun Apr 23 17:58:04 2023 from 127.0.0.1


hdp123@surajsavji-VirtualBox: ~/Desktop/analyzelogs
GNU nano 4.8 Manifest.txt Modified
Main-Class: SalesCountry.SalesCountryDriver
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos M-U Undo
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line M-E Redo


hdp123@surajsavji-VirtualBox: ~
hdp123@surajsavji-VirtualBox:~$ start-dfs.sh
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.10.1.jar) to method sun.security.krb5.Config.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
23/04/23 21:55:31 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Starting namenodes on [localhost]
Enter passphrase for key '/home/hdp123/.ssh/id_rsa':
hdp123@localhost's password:
localhost: starting namenode, logging to /usr/local/hadoop/logs/hadoop-hdp123-namenode-surajsavji-VirtualBox.out
localhost: WARNING: An illegal reflective access operation has occurred
localhost: WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.10.1.jar) to method sun.security.krb5.Config.getInstance()
localhost: WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
localhost: WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
localhost: WARNING: All illegal access operations will be denied in a future release
Enter passphrase for key '/home/hdp123/.ssh/id_rsa':
hdp123@localhost's password:
localhost: starting datanode, logging to /usr/local/hadoop/logs/hadoop-hdp123-datanode-surajsavji-VirtualBox.out
localhost: WARNING: An illegal reflective access operation has occurred
localhost: WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.10.1.jar) to method sun.security.krb5.Config.getInstance()
localhost: WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
localhost: WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
localhost: WARNING: All illegal access operations will be denied in a future release
Starting secondary namenodes [0.0.0.0]
Enter passphrase for key '/home/hdp123/.ssh/id_rsa':
hdp123@0.0.0.0's password:
0.0.0.0: starting secondarynamenode, logging to /usr/local/hadoop/logs/hadoop-hdp123-secondarynamenode-surajsavji-VirtualBox.out
0.0.0.0: WARNING: An illegal reflective access operation has occurred
0.0.0.0: WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.10.1.jar) to method sun.security.krb5.Config.getInstance()
0.0.0.0: WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
0.0.0.0: WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
0.0.0.0: WARNING: All illegal access operations will be denied in a future release
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.10.1.jar) to method sun.security.krb5.Config.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
23/04/23 21:55:57 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
hdp123@surajsavji-VirtualBox:~$ start-yarn.sh
starting yarn daemons
starting resourcemanager, logging to /usr/local/hadoop/logs/yarn-hdp123-resourcemanager-surajsavji-VirtualBox.out
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.10.1.jar) to method sun.security.krb5.Config.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
Enter passphrase for key '/home/hdp123/.ssh/id_rsa':
hdp123@localhost's password:

```
hdp123@surajsavji-VirtualBox: ~/Desktop/analyzelogs
hdp123@surajsavji-VirtualBox:~$ jps
3060 ResourceManager
2516 NameNode
2692 DataNode
2905 SecondaryNameNode
3549 Jps
3391 NodeManager
hdp123@surajsavji-VirtualBox:~$ cd analyzelogs/
-bash: cd: analyzelogs/: No such file or directory
hdp123@surajsavji-VirtualBox:~$ cd Desktop
hdp123@surajsavji-VirtualBox:~/Desktop$ cd analyzelogs/
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ sudo mkdir ~/input2000
[sudo] password for hdp123:
mkdir: cannot create directory ‘/home/hdp123/input2000’: File exists
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ ls
access_log_short.csv  analyzelogs.jar  Manifest.txt  SalesCountryDriver.java  SalesMapper.java
access_log_short.txt  Commands         SalesCountry  SalesCountryReducer.java
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ sudo cp access_log_short.csv ~/input2000/
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ $HADOOP_HOME/bin/hdfs dfs -put ~/input2000 /
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.10.1.jar) to method sun.security.krb5.Confi
g.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
23/04/23 21:58:44 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
put: `/input2000/access_log_short.csv': File exists
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ $HADOOP_HOME/bin/hadoop jar analyzelogs.jar /input2000 /output2000
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.10.1.jar) to method sun.security.krb5.Confi
g.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
23/04/23 21:58:52 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
23/04/23 21:58:52 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032
23/04/23 21:58:52 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032
org.apache.hadoop.mapred.FileAlreadyExistsException: Output directory hdfs://localhost:9000/output2000 already exists
        at org.apache.hadoop.mapred.FileOutputFormat.checkOutputSpecs(FileOutputFormat.java:131)
        at org.apache.hadoop.mapreduce.JobSubmitter.checkSpecs(JobSubmitter.java:281)
        at org.apache.hadoop.mapreduce.JobSubmitter.submitJobInternal(JobSubmitter.java:145)
        at org.apache.hadoop.mapreduce.Job$11.run(Job.java:1570)
        at org.apache.hadoop.mapreduce.Job$11.run(Job.java:1567)
        at java.base/java.security.AccessController.doPrivileged(Native Method)
        at java.base/javax.security.auth.Subject.doAs(Subject.java:423)
        at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1926)
        at org.apache.hadoop.mapreduce.Job.submit(Job.java:1567)
        at org.apache.hadoop.mapred.JobClient$1.run(JobClient.java:576)
        at org.apache.hadoop.mapred.JobClient$1.run(JobClient.java:571)
        at java.base/java.security.AccessController.doPrivileged(Native Method)
        at java.base/javax.security.auth.Subject.doAs(Subject.java:423)
        at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1926)
        at org.apache.hadoop.mapred.JobClient.submitJobInternal(JobClient.java:571)
        at org.apache.hadoop.mapred.JobClient.submitJob(JobClient.java:562)
        at org.apache.hadoop.mapred.JobClient.runJob(JobClient.java:871)
        at SalesCountry.SalesCountryDriver.main(SalesCountryDriver.java:38)
```

```
hdp123@surajsavji-VirtualBox: ~/Desktop/analyzelogs
hdp123@surajsavji-VirtualBox:~/Desktop/analyzelogs$ $HADOOP_HOME/bin/hdfs dfs -cat /output2000/part-00000
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.10.1.jar) to method sun.security.krb5.Confi
g.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
23/04/23 21:59:00 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
10.1.1.236      7
10.1.181.142    14
10.1.232.31     5
10.10.55.142    14
10.102.101.66   1
10.103.184.104  1
10.103.190.81   53
10.103.63.29    1
10.104.73.51    1
10.105.160.183  1
10.108.91.151   1
10.109.21.76    1
10.11.131.40    1
10.111.71.20    8
10.112.227.184  6
10.114.74.30    1
10.115.118.78   1
10.117.224.230  1
10.117.76.22    12
10.118.19.97    1
10.118.250.30   7
10.119.117.132  23
10.119.33.245   1
10.119.74.120   1
10.12.113.198   2
10.12.219.30    1
10.120.165.113  1
10.120.207.127  4
10.123.124.47   1
10.123.35.235   1
10.124.148.99   1
10.124.155.234  1
10.126.161.13   7
10.127.162.239  1
10.128.11.75    10
10.13.42.232    1
10.130.195.163  8
10.130.70.80    1
10.131.163.73   1
10.131.209.116  5
10.132.19.125   2
10.133.222.184  12
10.134.110.196  13
10.134.242.87   1
10.136.84.60    5
10.14.2.86      8
10.14.4.151     2
```