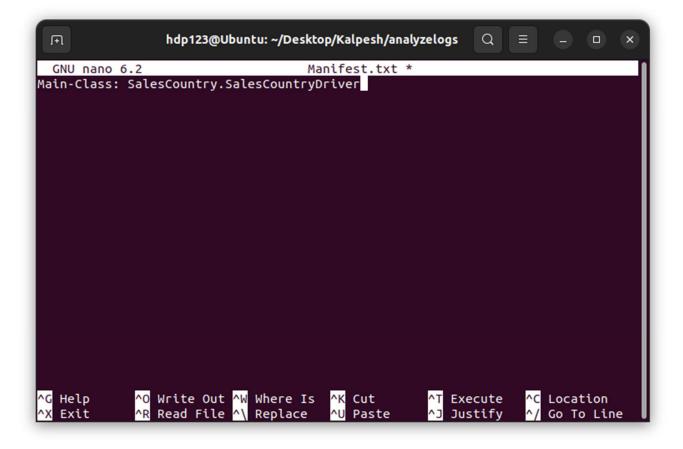
```
hdp123@Ubuntu: ~/Desktop/Kalpesh/analyzelogs
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                                                                               ×
hdp123@Ubuntu:~/Desktop/Kalpesh$ sudo mkdir analyzelogs
[sudo] password for hdp123:
hdp123@Ubuntu:~/Desktop/Kalpesh$ sudo chmod -R 777 analyzelogs/
hdp123@Ubuntu:~/Desktop/Kalpesh$ sudo chown -R hdp123 analyzelogs/
hdp123@Ubuntu:~/Desktop/Kalpesh$ sudo cp * analyzelogs/
cp: -r not specified; omitting directory 'analyzelogs'
hdp123@Ubuntu:~/Desktop/Kalpesh$ cd analyzelogs/
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ ls
access_log_short.csv
                                   SalesCountryDriver.java
                                                             SalesMapper.java
hadoop-mapreduce-example-file.txt SalesCountryReducer.java
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ sudo chmod 777 *
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ ls -ltr
total 172
-rwxrwxrwx 1 root root
                          386 Apr 26 16:52 hadoop-mapreduce-example-file.txt
-rwxrwxrwx 1 root root 158662 Apr 26 16:52 access_log_short.csv
-rwxrwxrwx 1 root root 1367 Apr 26 16:52 SalesCountryDriver.java
                          659 Apr 26 16:52 SalesMapper.java
-rwxrwxrwx 1 root root
                          749 Apr 26 16:52 SalesCountryReducer.java
-rwxrwxrwx 1 root root
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ ls -al
total 180
drwxrwxrwx 2 hdp123 root
                             4096 Apr 26 16:52
                             4096 Apr 26 16:51
drwxr-xr-x 3 hdp123 hadoop
                           158662 Apr 26 16:52 access_log_short.csv
-rwxrwxrwx 1 root
                   root
                              386 Apr 26 16:52 hadoop-mapreduce-example-file.txt
-rwxrwxrwx 1 root
                   root
```

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                 hdp123@Ubuntu: ~/Desktop/Kalpesh/analyzelogs
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                                                                          hdp123@Ubuntu:~/Desktop/Kalpesh$ sudo cp * analyzelogs/
cp: -r not specified; omitting directory 'analyzelogs'
hdp123@Ubuntu:~/Desktop/Kalpesh$ cd analyzelogs/
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ ls
access_log_short.csv
                                   SalesCountryDriver.java
                                                             SalesMapper.java
hadoop-mapreduce-example-file.txt SalesCountryReducer.java
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ sudo chmod 777 *
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ ls -ltr
total 172
-rwxrwxrwx 1 root root
                          386 Apr 26 16:52 hadoop-mapreduce-example-file.txt
-rwxrwxrwx 1 root root 158662 Apr 26 16:52 access_log_short.csv
-rwxrwxrwx 1 root root 1367 Apr 26 16:52 SalesCountryDriver.java
-rwxrwxrwx 1 root root
                          659 Apr 26 16:52 SalesMapper.java
-rwxrwxrwx 1 root root
                          749 Apr 26 16:52 SalesCountryReducer.java
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ ls -al
total 180
drwxrwxrwx 2 hdp123 root
                             4096 Apr 26 16:52
drwxr-xr-x 3 hdp123 hadoop
                             4096 Apr 26 16:51
                           158662 Apr 26 16:52 access_log_short.csv
-rwxrwxrwx 1 root
                   root
-rwxrwxrwx 1 root
                   root
                              386 Apr 26 16:52 hadoop-mapreduce-example-file.txt
-rwxrwxrwx 1 root
                   root
                             1367 Apr 26 16:52 SalesCountryDriver.java
-rwxrwxrwx 1 root
                   root
                              749 Apr 26 16:52 SalesCountryReducer.java
-rwxrwxrwx 1 root
                   root
                              659 Apr 26 16:52 SalesMapper.java
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ sudo chmod +r *.*
```

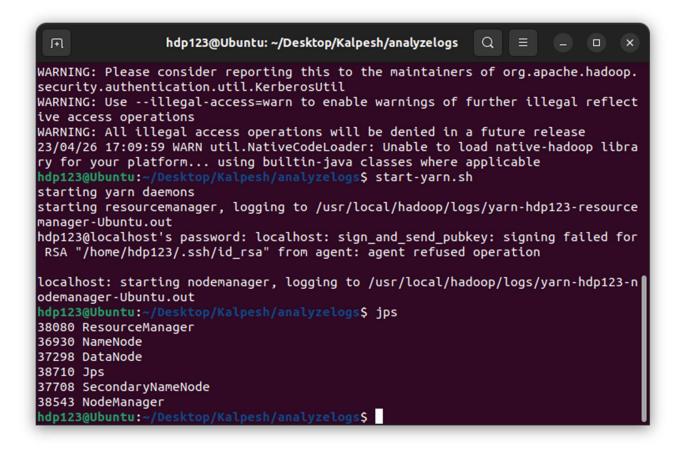
Compile Java files:

```
hdp123@Ubuntu: ~/Desktop/Kalpesh/analyzelogs
                                                           Q
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rwxrwxrwx 1 root root
                          749 Apr 26 16:52 SalesCountryReducer.java
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ ls -al
total 180
drwxrwxrwx 2 hdp123 root
                             4096 Apr 26 16:52
drwxr-xr-x 3 hdp123 hadoop
                             4096 Apr 26 16:51 ...
                           158662 Apr 26 16:52 access_log_short.csv
-rwxrwxrwx 1 root
                   root
-rwxrwxrwx 1 root
                              386 Apr 26 16:52 hadoop-mapreduce-example-file.txt
                   root
                             1367 Apr 26 16:52 SalesCountryDriver.java
-rwxrwxrwx 1 root
                   root
                              749 Apr 26 16:52 SalesCountryReducer.java
-rwxrwxrwx 1 root
                   root
                   root
                              659 Apr 26 16:52 SalesMapper.java
-rwxrwxrwx 1 root
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ sudo chmod +r *.*
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ export CLASSPATH="$HADOOP HOME/shar
e/hadoop/mapreduce/hadoop-mapreduce-client-core-2.10.1.jar:$HADOOP_HOME/share/ha
doop/mapreduce/hadoop-mapreduce-client-common-2.10.1.jar:$HADOOP_HOME/share/hado
op/common/hadoop-common-2.10.1.jar:~/analyzelogs/SalesCountry/*:$HADOOP HOME/lib
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ javac -d . SalesMapper.java SalesCo
untryReducer.java SalesCountryDriver.java
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ cd SalesCountry/
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs/SalesCountry$ ls
SalesCountryDriver.class SalesCountryReducer.class SalesMapper.class
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs/SalesCountry$ cd ...
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ sudo nano Manifest.txt
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$
```

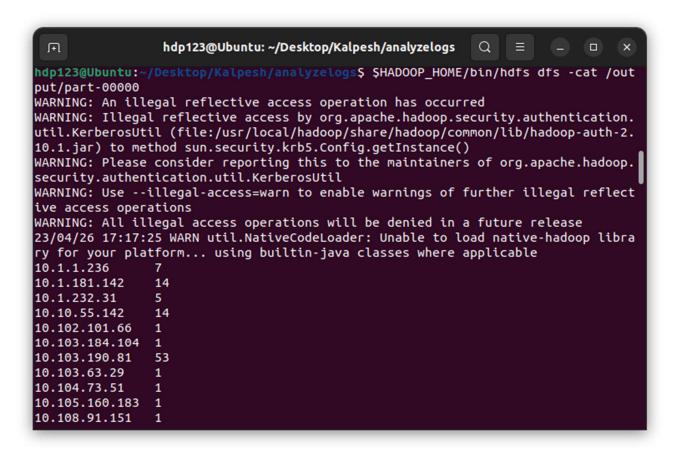


Start Hadoop:

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                 hdp123@Ubuntu: ~/Desktop/Kalpesh/analyzelogs
                                                           Q
untryReducer.java SalesCountryDriver.java
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ cd SalesCountry/
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs/SalesCountry$ ls
SalesCountryDriver.class SalesCountryReducer.class SalesMapper.class
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs/SalesCountry$ cd ...
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ sudo nano Manifest.txt
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ jar -cfm analyzelogs.jar Manifest.t
xt SalesCountry/*.class
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ 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 reflect
ive access operations
WARNING: All illegal access operations will be denied in a future release
23/04/26 17:03:08 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
Starting namenodes on [localhost]
localhost: sign and send pubkey: signing failed for RSA "/home/hdp123/.ssh/id rs
a" from agent: agent refused operation
hdp123@localhost's password:
```



```
Q
                 hdp123@Ubuntu: ~/Desktop/Kalpesh/analyzelogs
 ſŦ
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ mkdir input
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ ls
access log short.csv
                                                 SalesCountryDriver.java
                                   Manifest.txt SalesCountryReducer.java
hadoop-mapreduce-example-file.txt SalesCountry SalesMapper.java
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ sudo cp access_log_short.csv input/
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ $HADOOP_HOME/bin/hdfs dfs -put inpu
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.
util.KerberosUtil (file:/usr/local/hadoop/share/hadoop/common/lib/hadoop-auth-2.
10.1.jar) to method sun.security.krb5.Config.getInstance()
WARNING: Please consider reporting this to the maintainers of org.apache.hadoop.
security.authentication.util.KerberosUtil
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflect
ive access operations
WARNING: All illegal access operations will be denied in a future release
23/04/26 17:13:36 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
put: `/input/access_log_short.csv': File exists
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$ $HADOOP_HOME/bin/hadoop jar analyze
logs.jar /input /output
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by org.apache.hadoop.security.authentication.
```



```
hdp123@Ubuntu: ~/Desktop/Kalpesh/analyzelogs
 F
                                                             Q
                                                                            10.73.60.200
                1
10.73.64.91
                1
10.74.218.123
                1
10.75.116.199
                1
10.76.143.30
                1
10.76.68.178
                16
10.78.95.24
                8
10.80.10.131
                10
10.80.215.116
                17
10.81.134.180
                1
10.82.30.199
                63
10.82.64.235
                1
10.84.236.242
                1
10.87.209.46
                1
10.87.88.214
                1
                1
10.88.204.177
10.89.178.62
                1
10.89.244.42
                1
10.94.196.42
                1
10.95.136.211
10.95.232.88
                1
10.98.156.141
                1
10.99.228.224
                1
hdp123@Ubuntu:~/Desktop/Kalpesh/analyzelogs$
```

On Browser(localhost:50070):

