Instructions E-commerce Fraud Detection Execution

CS555: Big Data Computing Lab

31st August 2021

- 1. Install Maven
 - a. Open the terminal and type:

sudo apt-get install maven

- 2. create project directory: (Fraudcustomer)
 - a. Browse to home directory

cd /home/iitp

b. Create project directory

mkdir Fraudcustomer

- 3. Copy files with directory structure from local system to VM:
 - a. Copy the source code files directory

scp -r /home/iitp/CS-555-Lab-2021/Lab-V/Fraudcustomer/src/iitp@172.16.27.166:/home/iitp/Fraudcustomer

b. Copy the inputdata directory with input file

scp -r /home/iitp/CS-555-Lab-2021/Lab-V/Fraudcustomer/inputdata/iitp@172.16.27.166:/home/iitp/Fraudcustomer

c. Copy the buildfile pom.xml

 $scp\ -r\ /home/iitp/CS-555-Lab-2021/Lab-V/Fraudcustomer/pom.xml\ iitp@172.16.27.166:/home/iitp/Fraudcustomer$

- 4. Compile the java source files
 - a. Browse to the Fraudcustomer directory

cd Fraudcustomer

b. Compile source files and create jar file

mvn clean && mvn compile && maven package

- 5. Start all hadoop services
 - a. Browse to hadoop installation sbin sub-directory

cd/home/iitp/hadoop-2.6.0/sbin

b. start all services

./start-all.sh

Note:- Enter password when prompted

- 6. Create input directory on HDFS
 - a. browse to hadoop installation bin folder

cd /home/iitp/hadoop-2.6.0/bin

b. create directory (Fraudcustomer)

./hadoop fs -mkdir Fraudcustomer

c. create directory (**inputdata**) inside Fraudcustomer directory on HDFS

./hadoop fs -mkdir Fraudcustomer/inputdata

- 7. Copy the input text file from local directory to HDFS
 - a. browse to hadoop installation bin folder

cd /home/iitp/hadoop-2.6.0/bin

b. Copy from Local

./hadoop dfs -put /home/iitp/Fraudcustomer/inputdata/fraud.txt Fraudcustomer/inputdata

- 8. Running the program
 - a. browse to the bin directory of hadoop installation

cd /home/iitp/hadoop-2.6.0/bin

b. Running in terminal

./hadoop jar /home/iitp/Fraudcustomer/target/FraudDetect-1.0.0.jar FraudCustomerECommerce Fraudcustomer/inputdata/ Fraudcustomer/outputdata

c. Finding outputs

./hadoop dfs -cat Fraudcustomer/outputdata/part-r-00000

