**Instructions E-commerce Fraud Detection Execution**

CS555: Big Data Computing Lab

horizontal line

# **31st August 2021**

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

**sudo apt-get install maven**

1. create project directory : (Fraudcustomer)
   1. Browse to home directory

**cd /home/iitp**

* 1. Create project directory

**mkdir Fraudcustomer**

1. Copy files with directory structure from local system to VM:
   1. 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**

* 1. 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**

* 1. 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**

1. Compile the java source files
   1. Browse to the Fraudcustomer directory

**cd Fraudcustomer**

* 1. Compile source files and create jar file

**mvn clean && mvn compile && maven package**

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

**cd /home/iitp/hadoop-2.6.0/sbin**

* 1. start all services

**./start-all.sh**

Note:- Enter password when prompted

1. Create input directory on HDFS
   1. browse to hadoop installation bin folder

**cd /home/iitp/hadoop-2.6.0/bin**

* 1. create directory (**Fraudcustomer**)

**./hadoop fs -mkdir Fraudcustomer**

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

**./hadoop fs -mkdir Fraudcustomer/inputdata**

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

**cd /home/iitp/hadoop-2.6.0/bin**

* 1. Copy from Local

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

1. Running the program
   1. browse to the bin directory of hadoop installation

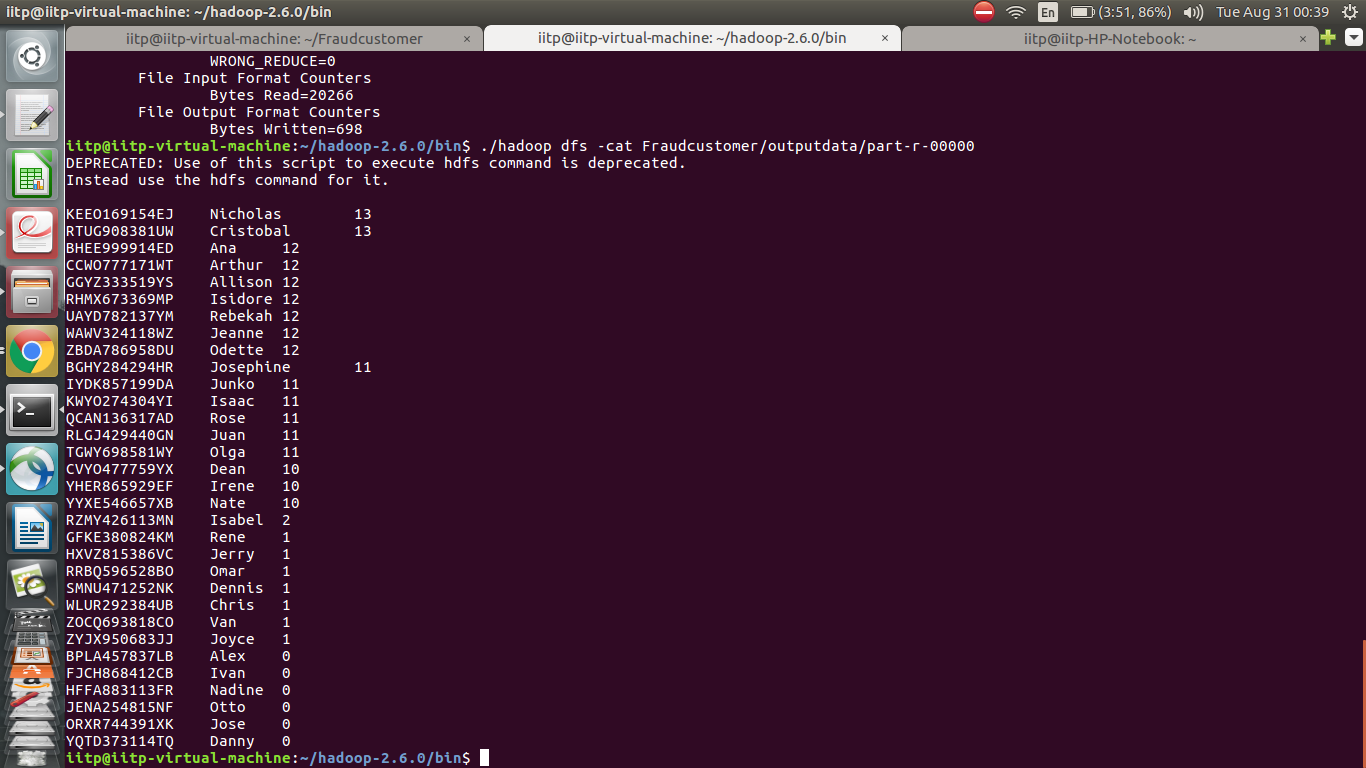
**cd /home/iitp/hadoop-2.6.0/bin**

* 1. Running in terminal

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

* 1. Finding outputs

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

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