CSEE5590 Big Data Programming

In Class Programming –1 Report (Jongkook Son)

Project Overview:

Installation of Cloudera and visualize data with Hue

Requirements/Task(s):

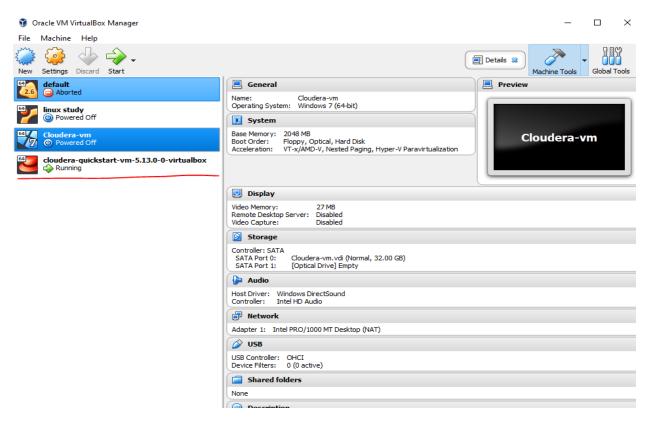
You are required to follow the steps below to complete your ICP today

- Use the given dataset
- Load it in hadoop hdfs
- Use the second file
- · Append it to the first file
- · Visualize file with Hue
- View the first and last lines (approximately 5) of merged dataset using appropriate hdfs commands
- Create a new text file and load it into hdfs and try to append all three datasets.

What I learned in ICP:

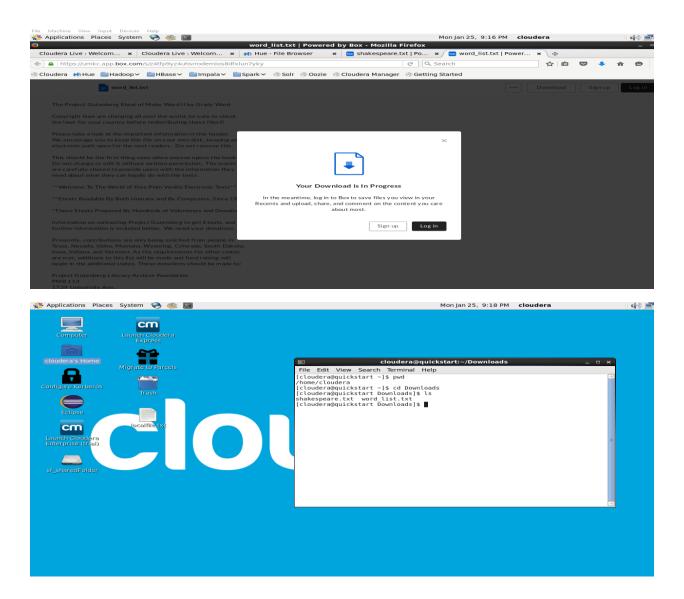
How to install cloudera using oracle virtual box. How to load data from local file system to the hdfs using cloudera virtual maschine. Also I learned how to visualize hdfs file by using Hue. Finally I learned some basic hdfs commands to control files in the hdfs.

ICP description what was the task you were performing and Screen shots that shows the successful execution of each required step of your code



1. I download and install oracle virtual box downlaod and install the cloudera virtualbox Extract cloudera file to a directory. In VirtualBox, Go to file and select import Appliance to select the VM image from my hard drive.

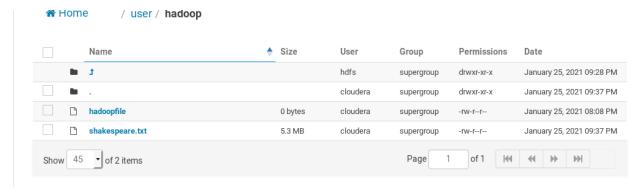
Select the virtual machine to start loading the VM image in the virtual box. (cloudera-quickstart-vm-5.13.0-0-virtualbox)



- 2. Downloaded given datasets in cloudera virtual maschine. One can find out that there are two given datasets in local virtual maschine download folder
- 3. File Manipulation with command line
 - Move to Downloads directory
 [cloudera@quickstart ~]\$ cd Downloads
 [cloudera@quickstart Downloads]\$ Is
 shakespeare.txt word_list.txt

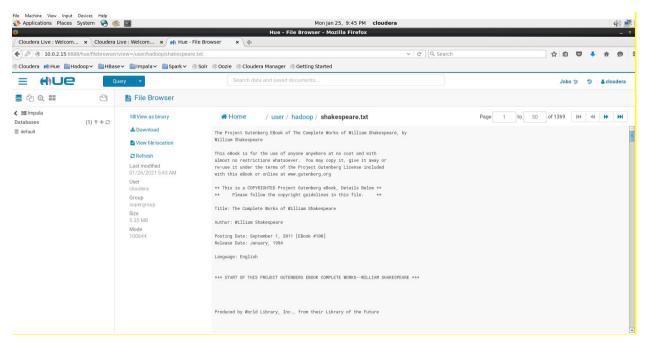
• Putting a file (Shakespeare.txt) from local system to hdfs

[cloudera@quickstart Downloads]\$ hdfs dfs -put shakespeare.txt /user/hadoop



Append a second file in local system to first file in the hdfs

[cloudera@quickstart Downloads]\$ hdfs dfs -appendToFile word_list.txt /user/hadoop/shakespeare.txt



• View the first 5 line of merged dataset

[cloudera@quickstart Downloads]\$ hdfs dfs -cat /user/hadoop/shakespeare.txt | head -n 5

The Project Gutenberg EBook of The Complete Works of William Shakespeare, by William Shakespeare

This eBook is for the use of anyone anywhere at no cost and with almost no restrictions whatsoever. You may copy it, give it away or cat: Unable to write to output stream.

View the last 5 line of merged dataset

[cloudera@quickstart Downloads]\$ hdfs dfs -cat /user/hadoop/shakespeare.txt | tail -n 5

using any compatible zip file extraction utility.

4) Delete the original zip file from your disk to save space. (optional)

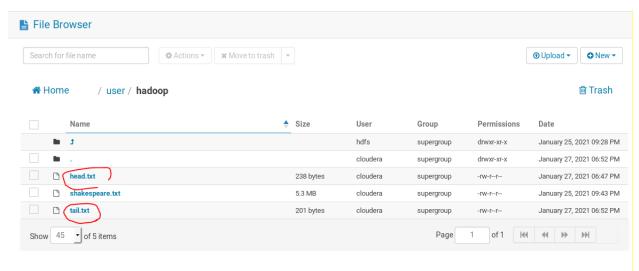
End of this Project Gutenberg etext of Moby Word II by Grady Ward.

• Store the first 5 line of merged dataset

[cloudera@quickstart Downloads]\$ hdfs dfs -cat /user/hadoop/shakespeare.txt | head -n 5 |hadoop fs -put - /user/hadoop/head.txt

Store the last 5 line of merged dataset

[cloudera@quickstart Downloads]\$ hdfs dfs -cat /user/hadoop/shakespeare.txt | tail -n 5 |hadoop fs -put - /user/hadoop/tail.txt



• Append all three datasets(shakespear, word_list, first last 5 sentence) to the new text file

[cloudera@quickstart Downloads]\$ hdfs dfs -text /user/hadoop/*.txt | hdfs dfs -put - /user/hadoop/Merged.txt

