Exercise Sheet 05

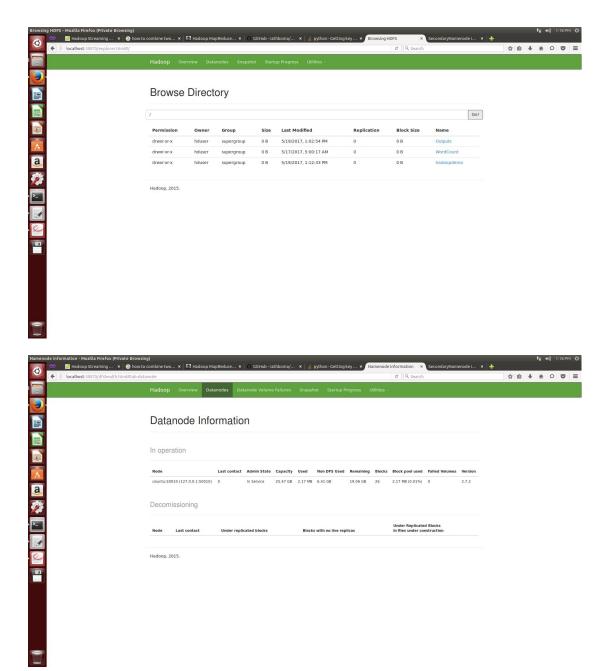
Syed Khalid Ahmed

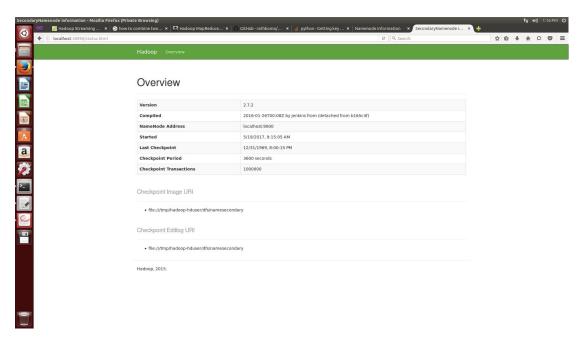
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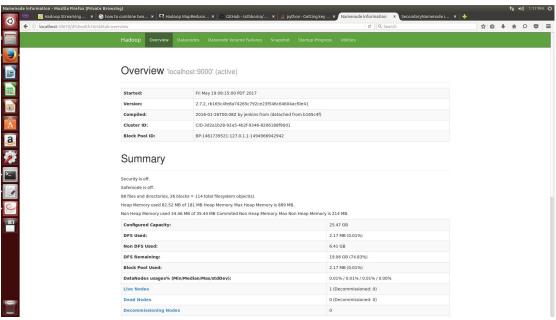
Exercise 1:

Exercise 1.1:

I have attached the snapshots of the working hadoop.



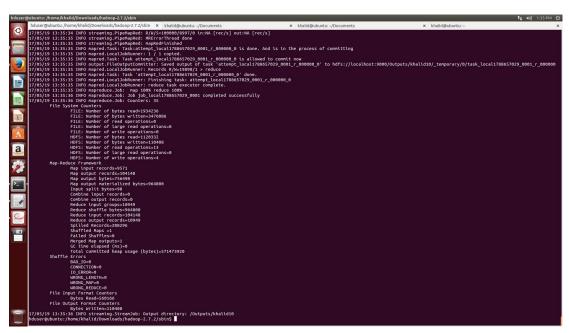




Exercise 1.2: Warmup Exercise

I have attached the code files in a separate folder. Below are the screenshots

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Exercise 2:

I have used the hadoop streaming api to perform the mapreduce operation.

The mapper and reduce code files for each question is in the respective directories.

Part 1.

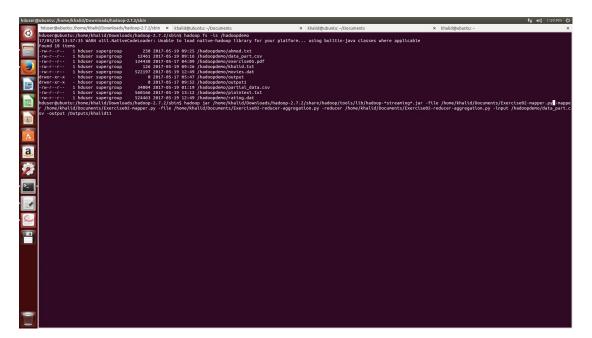
1) First I uploaded the relevant dataset to the HDFS using the following command.

hadoop fs -put /home/khalid/Downloads/ml-10M100K/*.dat /hadoopdemo

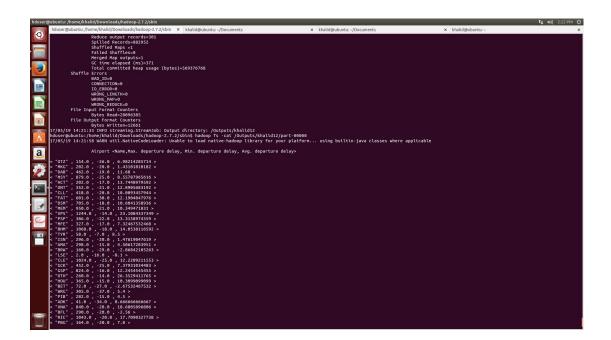
2) Then I ran the mapreduce job with the following command

hadoop jar /home/khalid/Downloads/hadoop-2.7.2/share/hadoop/tools/lib/hadoop-*streaming*.jar -file /home/khalid/Documents/Exercise02-mapper-2.py -mapper /home/khalid/Documents/Exercise02-mapper-2.py -file /home/khalid/Documents/Exercise02-reducer-2.py -reducer /home/khalid/Documents/Exercise02-reducer-2.py -input /hadoopdemo/FlightData.csv -output /Outputs/khalid13

I have attached the screenshots for the code.



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Part 2:

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Exercise 3:

Part 1.

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<u>Part 2.</u>

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