

IN411 – Lab 1 – Hadoop – HDFS

Dear students,

Kindly prepare a small report about the HDFS lab.

The objective of this lab is to:

- Download jdk 8
- Download and install WinRAR
- Download Apache Hadoop
- Extract Hadoop with WinRAR (run as administrator)
- Configure based on:
 - o <https://www.syncfusion.com/succinctly-free-ebooks/hadoop-for-windows-succinctly/installing-hadoop-for-windows>
 - o <https://www.youtube.com/watch?v=7056u3LyPTY>
 - o **(Be careful when using ChatGPT and other sources as you will encounter many problems and difficulties in achieving a successful setup.)**

Some Steps:

- run cmd as administrator
- prepare the HDFS name node:
 - o hdfs namenode -format
 - o start-dfs.cmd
 - o start-yarn.cmd
- create a directory (named bigdata):
 - o hadoop fs -mkdir /bigdata
 - o hadoop fs -ls /
- create a file (named myfile.txt) and store it in your HDFS directory:
 - o hadoop fs -put myfile.txt /bigdata
 - o hadoop fs -ls -R /
- Check HDFS commands
- Link to your Web browser GUI:
 - o <http://localhost:8088>
 - o <http://localhost:9870>

Team (name and id) (one or two students).

Send the presentation to my email: mohammad.hamze@ul.edu.lb