

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=7O56u3LyPTY>
 - 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).

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