

# Lab: Linux and HDFS Operations

## 1 Introduction

In this lab, you will perform various operations involving Linux and Hadoop Distributed File System (HDFS).

## 2 Instructions

### 2.1 Create a local file and folder

1. Open a terminal on your local Linux machine.
2. Create a folder and any file of your choice in the local Linux directory. You can use any text editor you prefer (e.g., `touch` or `vim`).
3. Put some data into the file.

### 2.2 Create an HDFS folder

1. Open a terminal on your local Linux machine.
2. Use the Hadoop command to create a folder in HDFS with the name `BigData_yourname`. Replace `yourname` with your actual name.

### 2.3 Upload file to HDFS

1. Use the `hadoop fs -copyFromLocal` command to upload the file created in Step 1 to the HDFS folder you created in Step 2 (`BigData_yourname`). Make sure to specify the correct paths.

### 2.4 Download and rename file

1. Use the `hadoop fs -copyToLocal` command to download the file from HDFS to your local Linux machine.
2. After downloading, change the name of the file to `your_name.txt`, where `your_name` is your actual name.

### **3 Submission**

- Create screenshot(s) of the above commands and submit to the assignment folder. You can create one or more screenshots, as long as the commands are clearly shown.