Big Data Analytics Lab
PMDS507P

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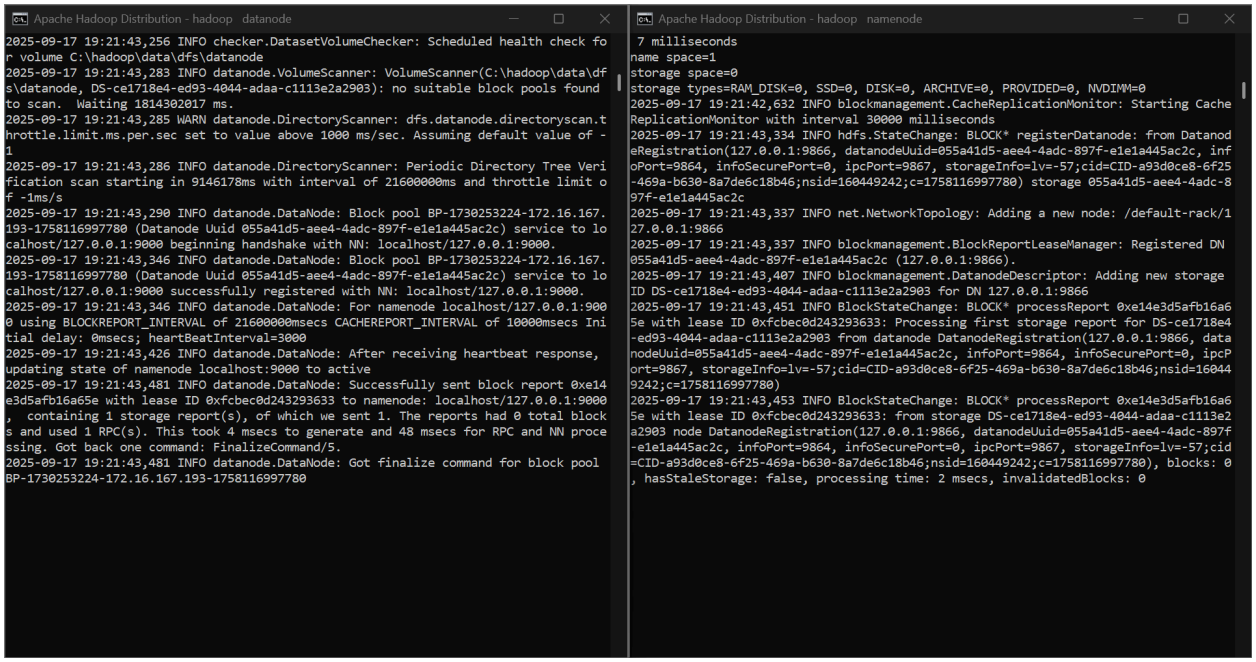
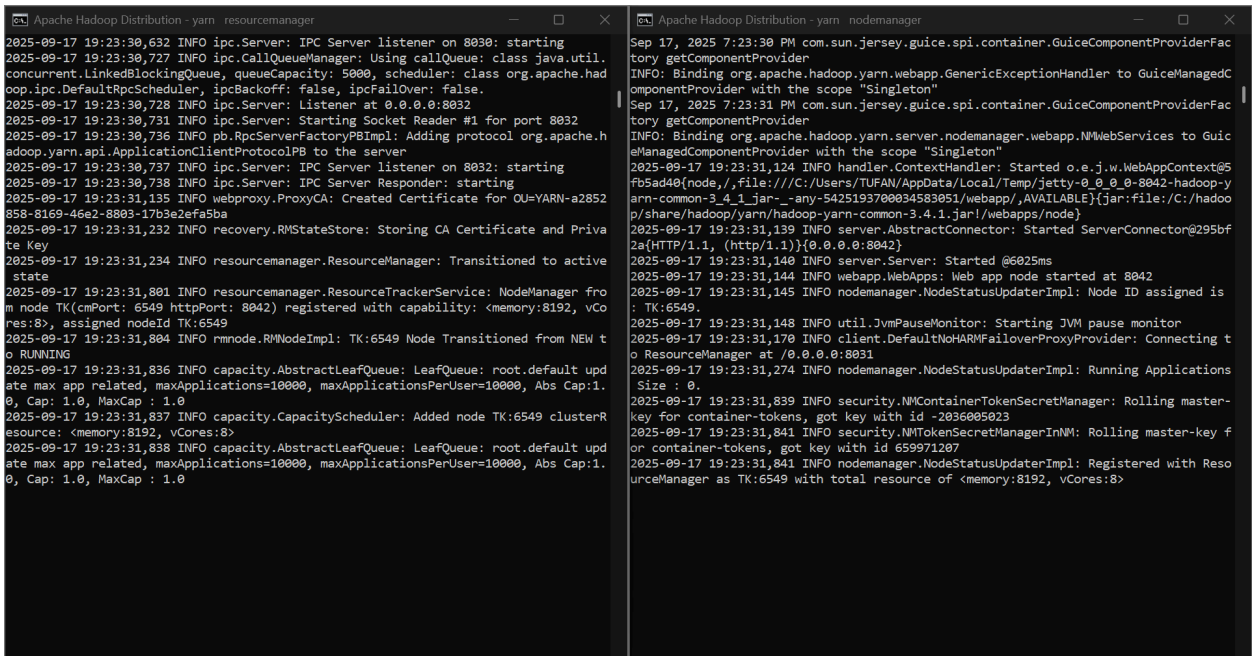
Slot: L29+L30

Digital Assignment 2

Step 1: Go to Command Prompt and type (start-dfs.cmd)

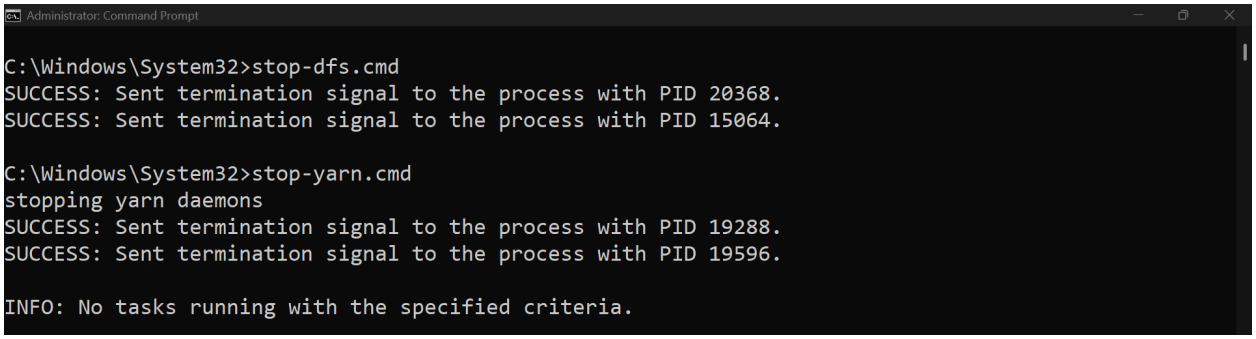


Step 2: Now type (start-yarn.cmd)

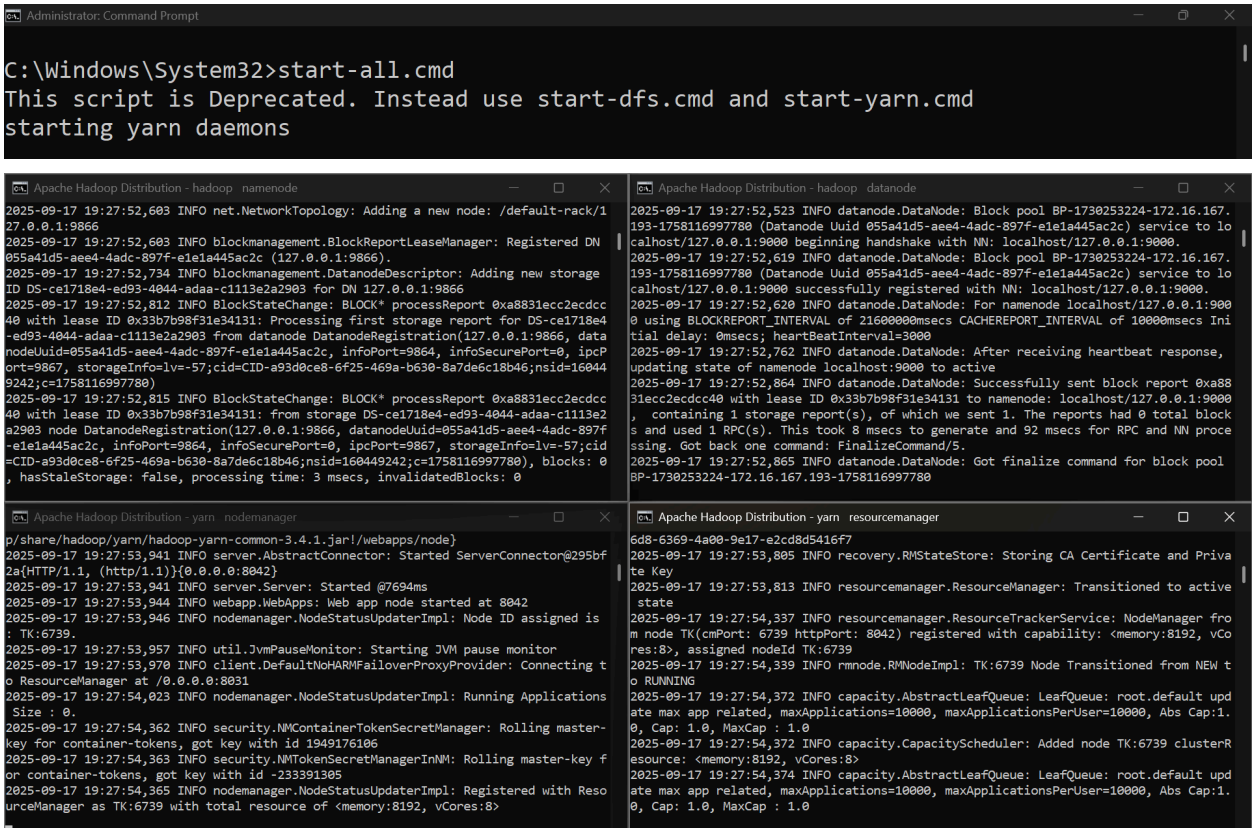


Step 3: Now type jps, which will display a list of all currently running Java processes on the local system.

Step 4: Stop all the processes by typing (stop-dfs.cmd) and (stop-yarn.cmd)

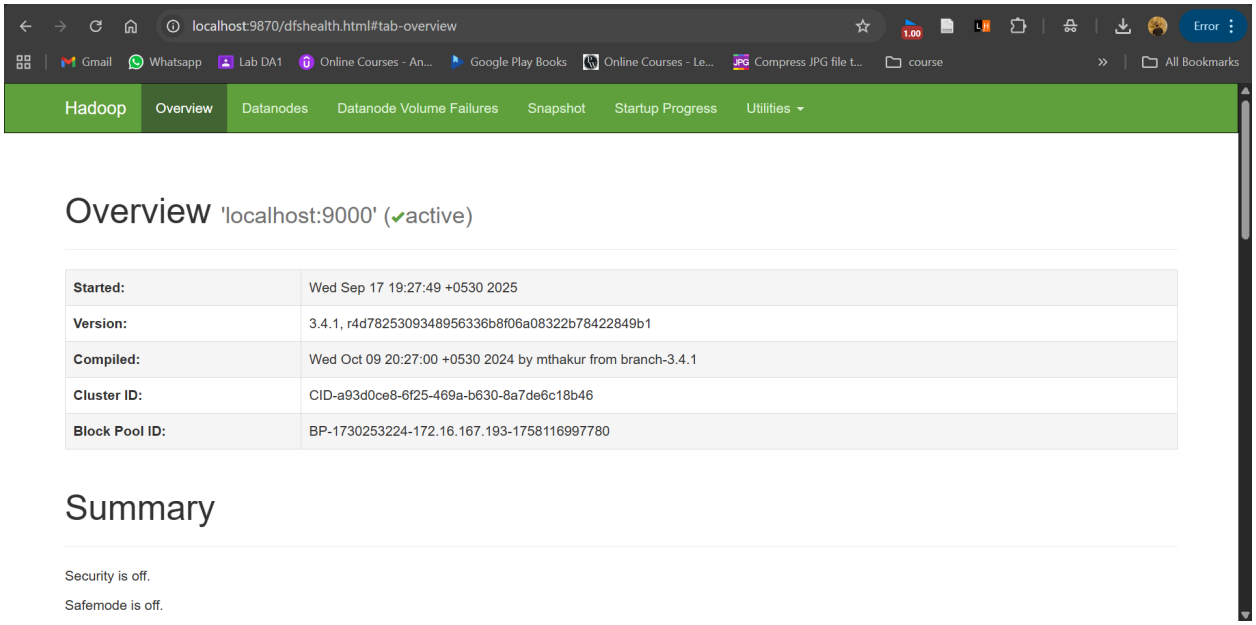


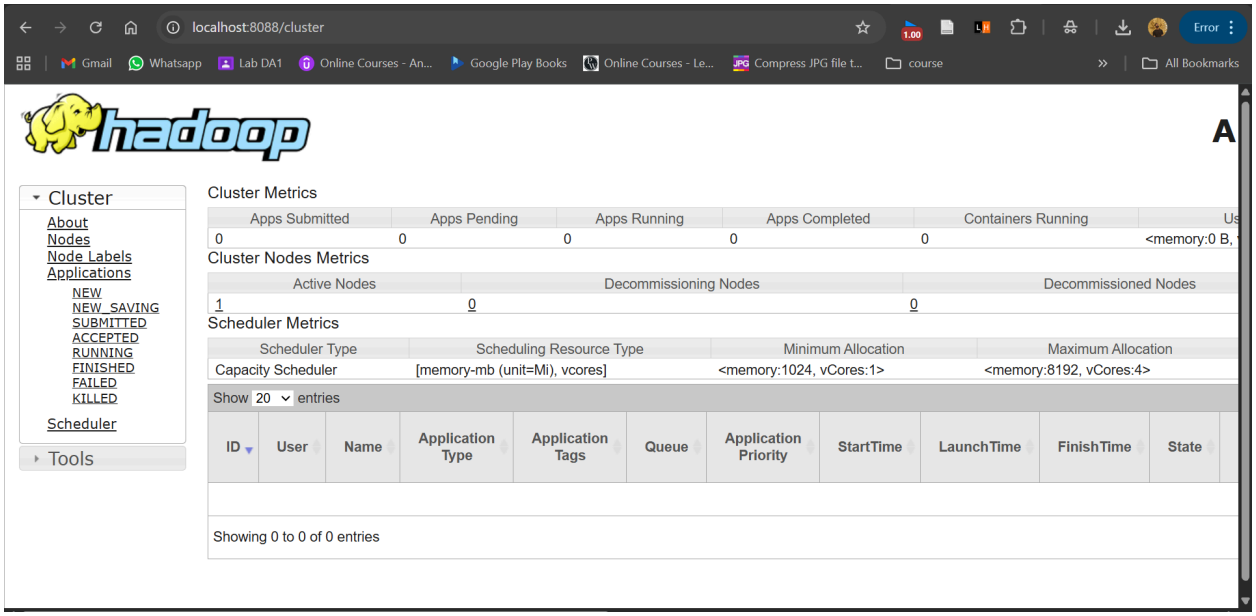
Step 5: Now try to open all the processes by a single command (start-all.cmd) and check if all the processes are running by the command jps



Step 6: List out all the root directories by the command (hdfs dfs -ls /)

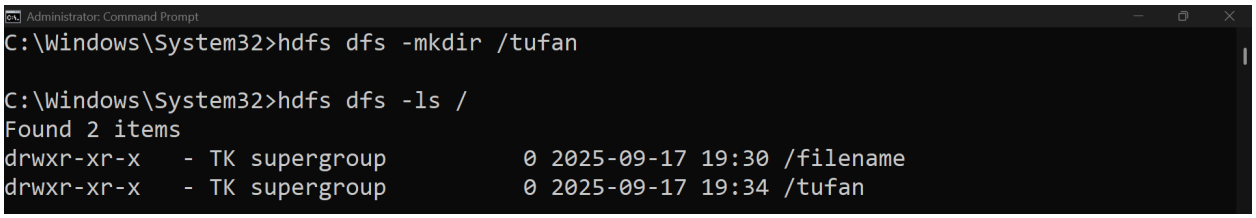
Step 7: Explore localhost:9870/ and localhost:8088/





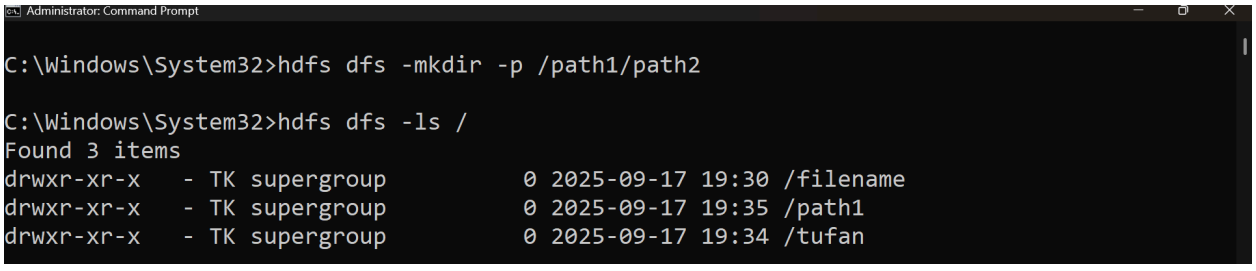
Create Directory:

Step 8: Now create a new directory by command (hdfs dfs –mkdir /filename) and view the list of directories again



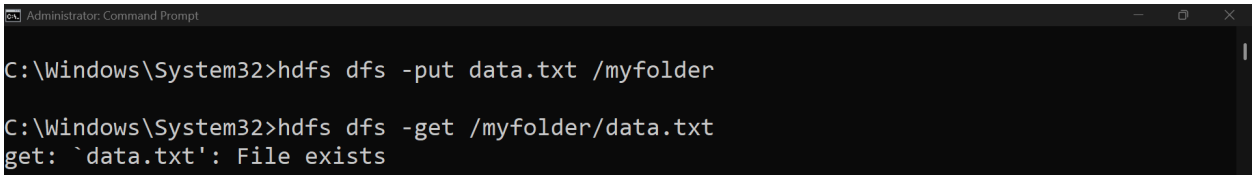
Create multiple directories at once:

Step 9: We can create multiple directories at once by the command (hdfs dfs -mkdir -p/path1/path2)



Put (upload) a file to HDFS:

Step 10: Now create a text file and upload it into the new directory by command (hdfs dfs -put data.txt /myfolder)



Get(download) a file for HDFS:

Step 11: To download a file from hdfs we can use the command (hdfs dfs -get /myfolder/data.txt)

```
C:\Windows\System32>hdfs dfs -get /myfolder/data.txt
get: `data.txt': File exists
```

Remove a file:

Step 12: To remove a file from any directory, we use the command (hdfs dfs -rm /myfolder/data.txt)

```
C:\Windows\System32>hdfs dfs -rm /myfolder/data.txt
Deleted /myfolder/data.txt
```

Remove a file recursively:

Step 13: To delete a directory, we can use (hdfs dfs -rm -r /myfolder) this will delete all the files/folders permanently

```
C:\Windows\System32>hdfs dfs -rm -r /myfolder
Deleted /myfolder
```

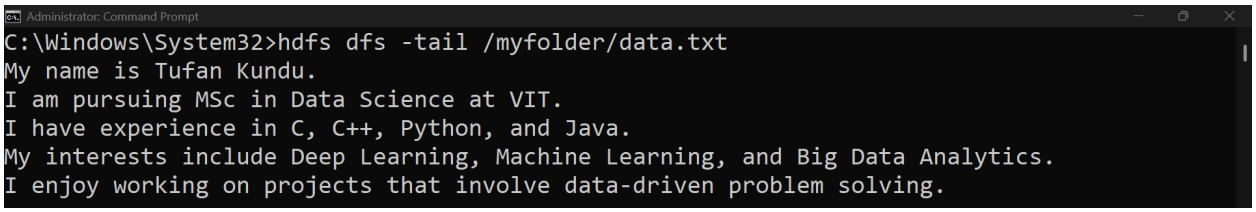
Step 14: For viewing file contents (hdfs dfs -cat /myfolder/data.txt)

```
C:\Windows\System32>hdfs dfs -cat /myfolder/data.txt
My name is Tufan Kundu.
I am pursuing MSc in Data Science at VIT.
I have experience in C, C++, Python, and Java.
My interests include Deep Learning, Machine Learning, and Big Data Analytics.
I enjoy working on projects that involve data-driven problem solving.
```

Step 15: To display the first few lines, we use (hdfs dfs -head /myfolder/data.txt)

```
C:\Windows\System32>hdfs dfs -head /myfolder/data.txt
My name is Tufan Kundu.
I am pursuing MSc in Data Science at VIT.
I have experience in C, C++, Python, and Java.
My interests include Deep Learning, Machine Learning, and Big Data Analytics.
I enjoy working on projects that involve data-driven problem solving.
```

Step 16: To display the last few lines, we use (hdfs dfs -tail /myfolder/data.txt)



Step 17: For copying files within hdfs (hdfs dfs -cp /myfolder/data.txt /backup)

```
C:\Windows\System32>hdfs dfs -cp /myfolder/data.txt /backup
```

Step 18: For checking the disk usage (hdfs dfs -du -h /)

```
C:\Windows\System32>hdfs dfs -du -h /
266  266  /backup
0    0    /filename
266  266  /myfolder
0    0    /path1
0    0    /tufan
```

Step 19: To show the file checksum (hdfs dfs -checksum /myfolder/data.txt)