docker volume create namenode

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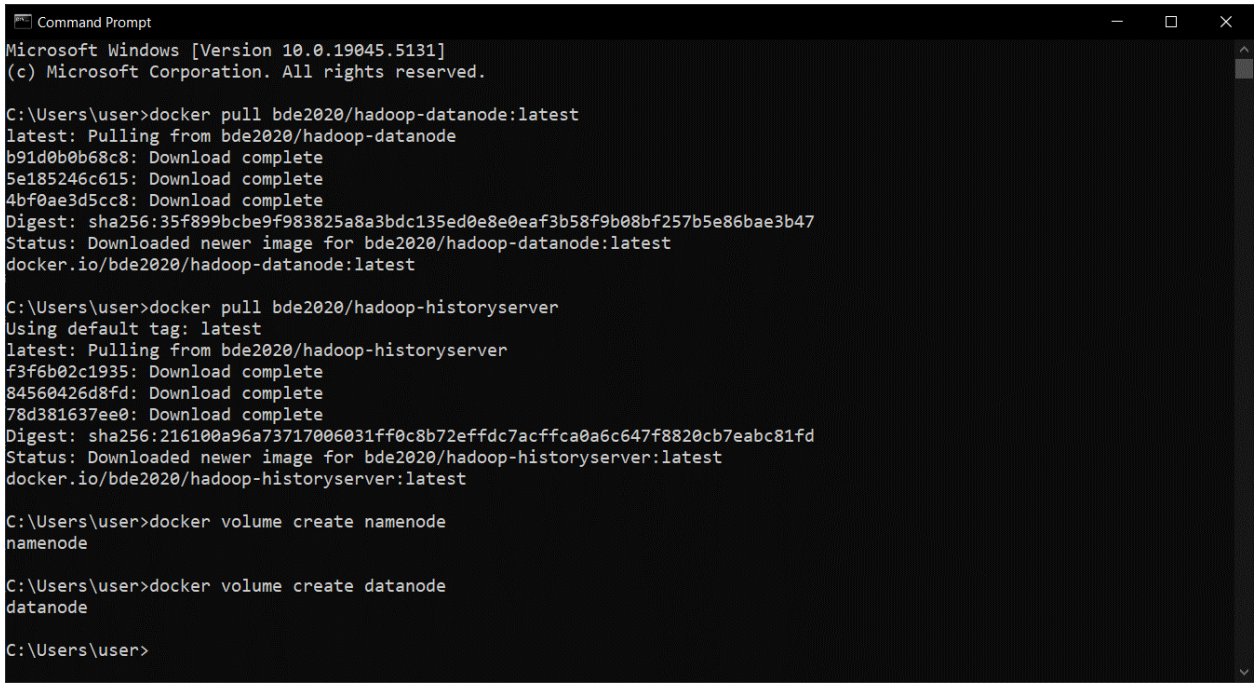
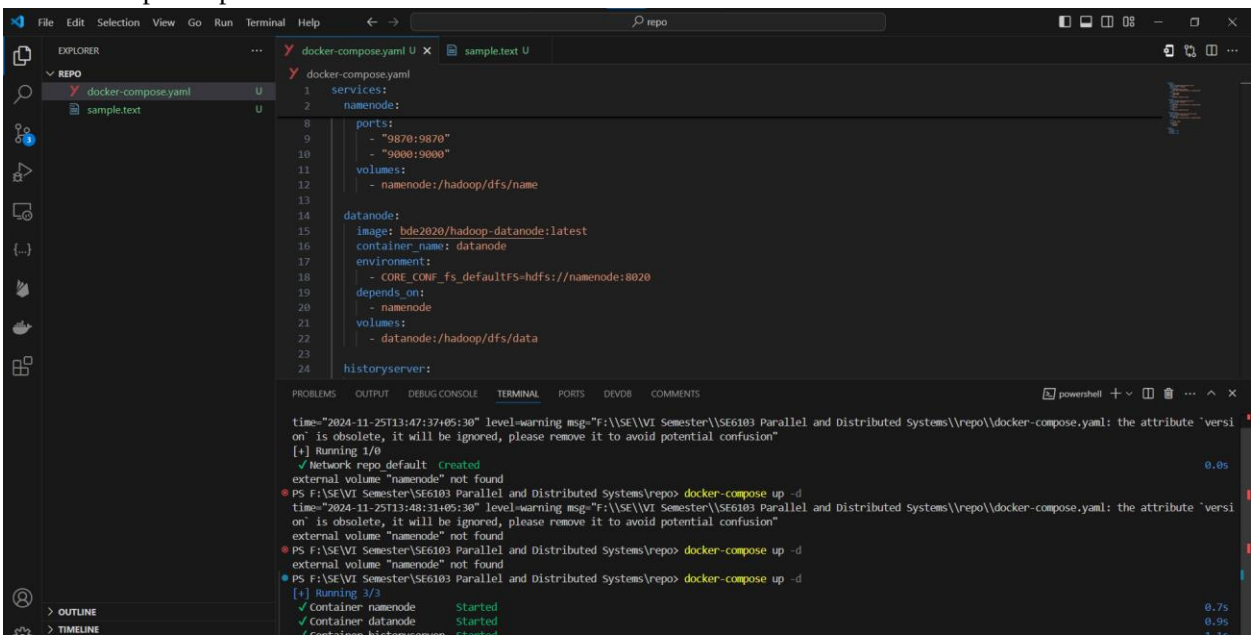
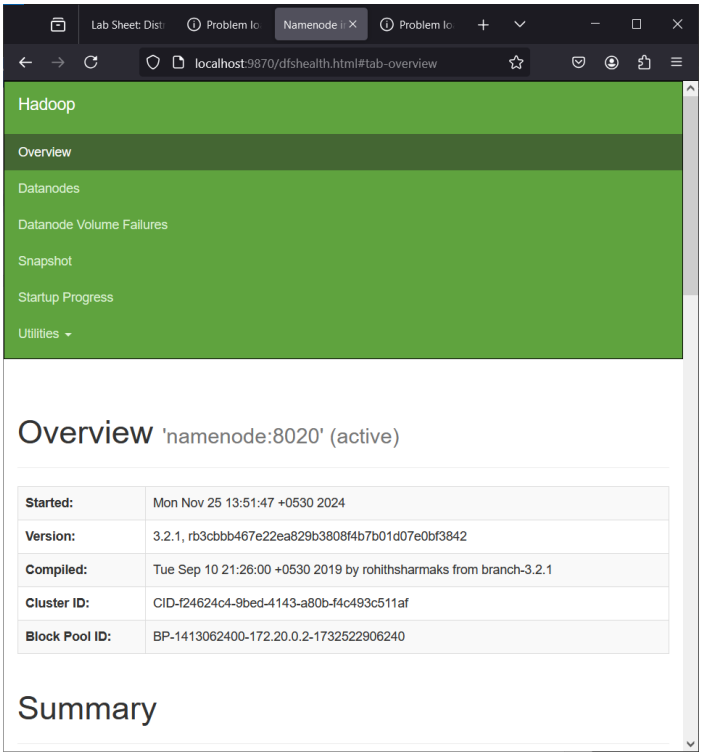


docker-compose up -d

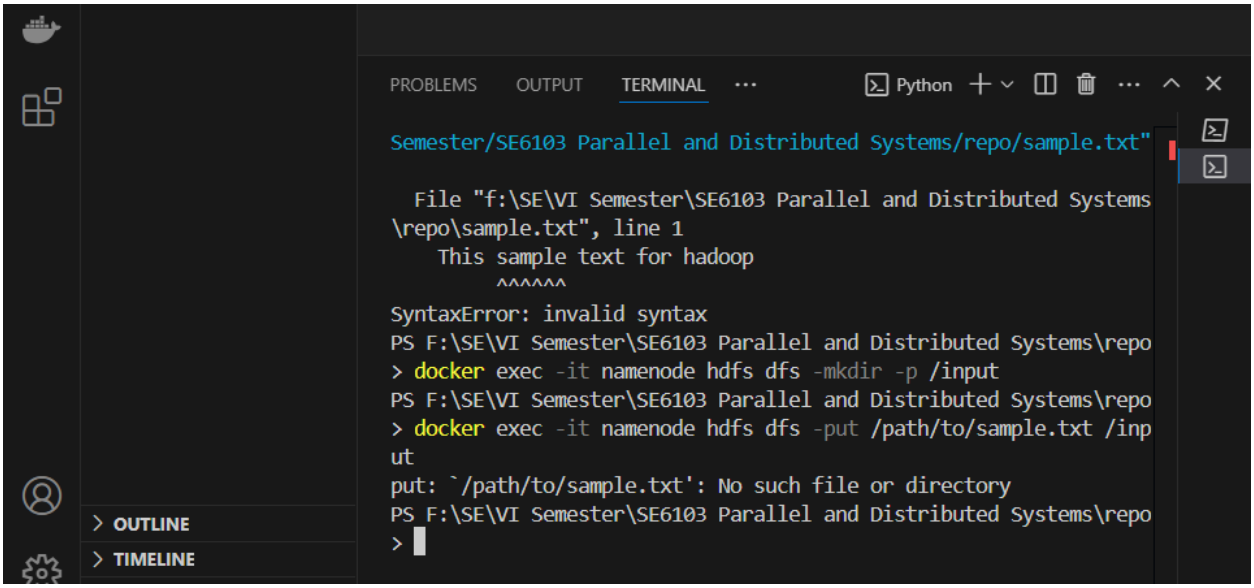


opening http://localhost:9870



docker exec -it namenode hdfs dfs -mkdir -p /input

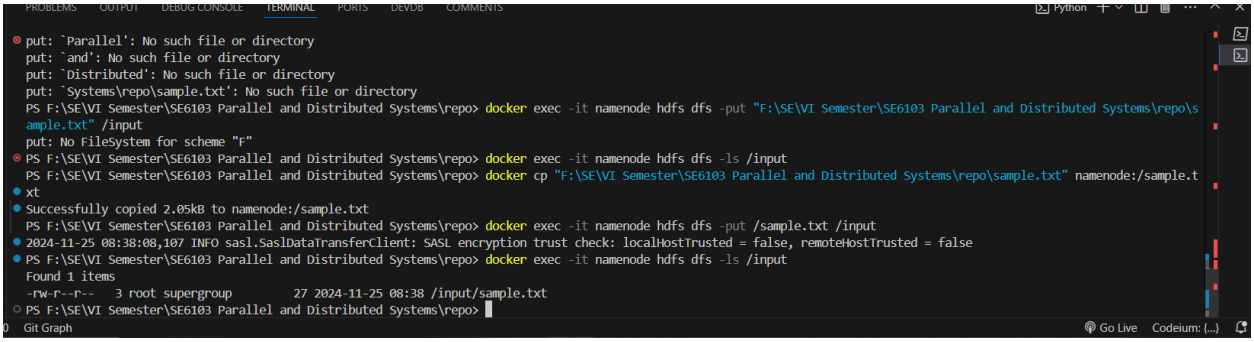
docker exec -it namenode hdfs dfs -put /path/to/sample.txt /input



docker exec -it namenode hdfs dfs -mkdir /input

docker cp "F:\SE\VI Semester\SE6103 Parallel and Distributed Systems\repo\sample.txt" namenode:/sample.txt

docker exec -it namenode hdfs dfs -put /sample.txt /input

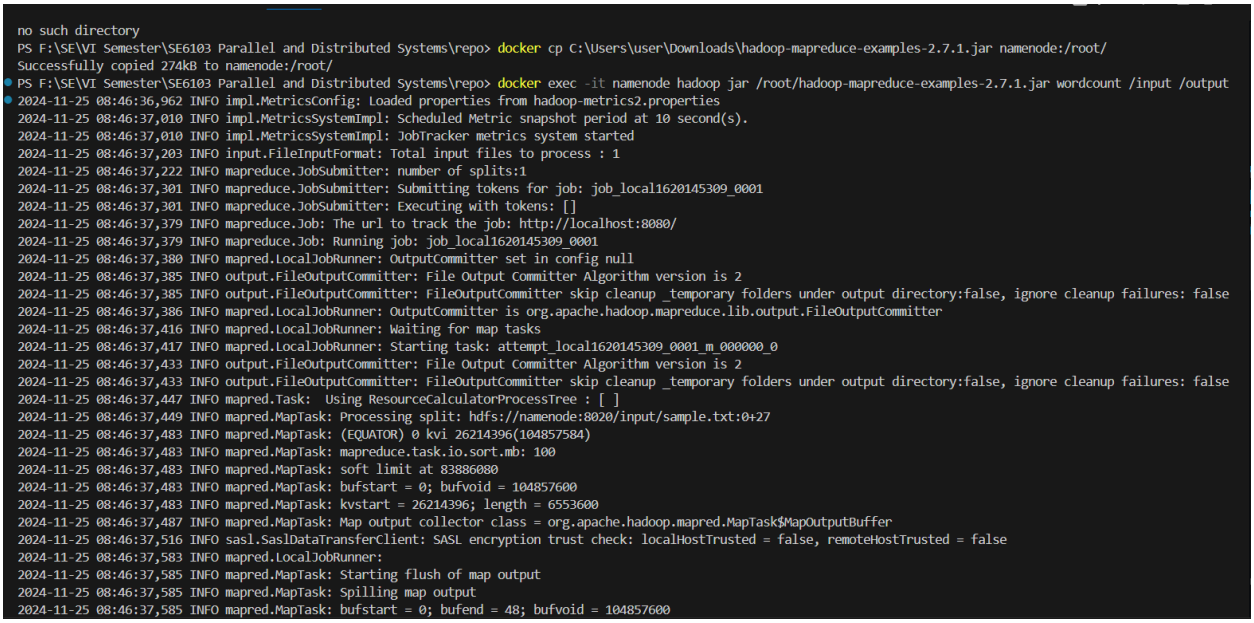


Download the .jar file

https://repo1.maven.org/maven2/org/apache/hadoop/hadoop-mapreduce-examples/2.7.1/

docker cp C:\Users\user\Downloads\hadoop-mapreduce-examples-2.7.1.jar namenode:/root/

docker exec -it namenode hadoop jar /root/hadoop-mapreduce-examples-2.7.1.jar wordcount /input /output

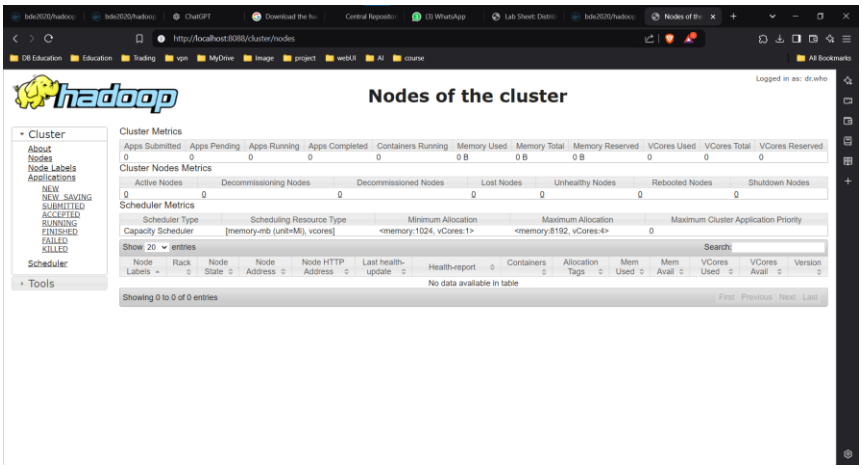


http://localhost:8088 run you should add the

docker-compose.yaml update

```yaml
resourcemanager:
    image: bde2020/hadoop-resourcemanager:latest
    container_name: resourcemanager
    environment:
      - CORE_CONF_fs_defaultFS=hdfs://namenode:8020
    ports:
      - "8088:8088"
```

Then we can run 8088 port



docker exec -it namenode hdfs dfs -ls /output

```
PS F:\SE\VI Semester\SE6103 Parallel and Distributed Systems\repo> docker exec -it namenode hdfs dfs -ls /output2
Found 2 items
-rw-r--r--   3 root supergroup          0 2024-11-25 08:58 /output2/_SUCCESS
-rw-r--r--   3 root supergroup         38 2024-11-25 08:58 /output2/part-r-00000
```

docker exec -it namenode hdfs dfs -ls /output

docker exec -it namenode hdfs dfs -cat /output/part-r-00000

```
PS F:\SE\VI Semester\SE6103 Parallel and Distributed Systems\repo> docker exec -it namenode hdfs dfs -ls /output2
Found 2 items
-rw-r--r--   3 root supergroup          0 2024-11-25 08:58 /output2/_SUCCESS
-rw-r--r--   3 root supergroup         38 2024-11-25 08:58 /output2/part-r-00000
PS F:\SE\VI Semester\SE6103 Parallel and Distributed Systems\repo> docker exec -it namenode hdfs dfs -cat /output/part-r-00000
2024-11-25 09:03:28,371 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
This    1
for     1
hadoop  1
sample  1
text    1
```

docker-compose down