docker pull bde2020/hadoop-datanode:latest

docker pull bde2020/hadoop-historyserver

```
C:\Users\LENOVO>docker pull bde2020/hadoop-datanode:latest
latest: Pulling from bde2020/hadoop-datanode
Digest: sha256:35f899bcbe9f983825a83bdc135ed0e8e0eaf3b58f9b08bf257b5e86bae3b47
Status: Image is up to date for bde2020/hadoop-datanode:latest
docker.io/bde2020/hadoop-datanode:latest

What's next:

View a summary of image vulnerabilities and recommendations → docker scout quickview bde2020/hadoop-datanode:latest

C:\Users\LENOVO>docker pull bde2020/hadoop-historyserver
Using default tag: latest
latest: Pulling from bde2020/hadoop-historyserver
Digest: sha256:2151090996a737179060931ff0c8b72effdc7acffca0a6c647f8820cb7eabc81fd
Status: Image is up to date for bde2020/hadoop-historyserver:latest
docker.io/bde2020/hadoop-historyserver:latest

What's next:

View a summary of image vulnerabilities and recommendations → docker scout quickview bde2020/hadoop-historyserver

C:\Users\LENOVO>
```

docker volume create namenode

docker volume create datanode

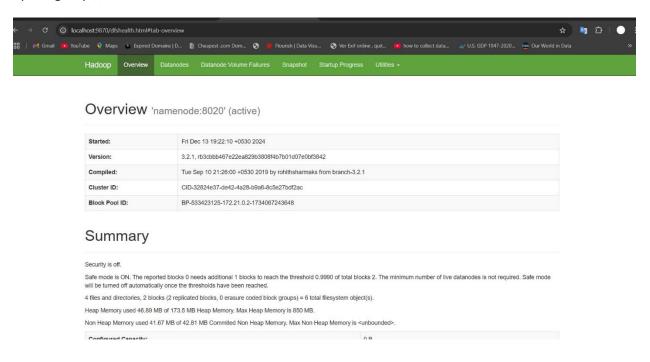
```
C:\Users\LENOVO>docker volume create namenode

C:\Users\LENOVO>docker volume create datanode

datanode
```

docker-compose up -d

opening http://localhost:9870



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

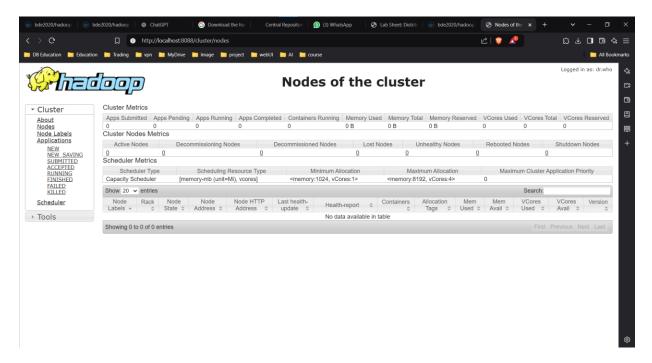
```
no such directory
PS F:\Sc\VI Semester\SE6103 Parallel and Distributed Systems\repo> docker cp C:\User\Downloads\hadoop-mapreduce-examples-2.7.1.jar namenode:/root/
Successfully copied 274kB to namenode:/root/
PS F:\Sc\VI Semester\SE6103 Parallel and Distributed Systems\repo> docker cpc C:\User\Downloads\hadoop-mapreduce-examples-2.7.1.jar namenode:/root/
PS F:\Sc\VI Semester\SE6103 Parallel and Distributed Systems\repo> docker exec -it namenode hadoop jar /root/hadoop-mapreduce-examples-2.7.1.jar wordcount /input /output
2004-11-25 08:46:37,060 INFO impl.MetricsSystemingl: Scheduled Metric snapshot period at 10 second(s).
2004-11-25 08:46:37,010 INFO impl.MetricsSystemingl: Scheduled Metric snapshot period at 10 second(s).
2004-11-25 08:46:37,3010 INFO impl.MetricsSystemingl: Scheduled Metric snapshot period at 10 second(s).
2004-11-25 08:46:37,3010 INFO impl.MetricisSystemingl: Scheduled Metric snapshot period at 10 second(s).
2004-11-25 08:46:37,3010 INFO impl.MetricisSystemingl: Scheduled Metric snapshot period at 10 second(s).
2004-11-25 08:46:37,3010 INFO mapreduce.JobisAmitter: number of splits:1
2004-11-25 08:46:37,3010 INFO mapreduce.JobisAmitter: interest of splits:1
2004-11-25 08:46:37,3010 INFO mapreduce.JobisAmitter: Executing with tokens: []
2004-11-25 08:46:37,3010 INFO mapreduce.Job: Running job: job_local16:20145:309 2001
2004-11-25 08:46:37,3010 INFO mapreduce.Job: Running job: job_local16:20145:309 2001
2004-11-25 08:46:37,301 INFO mapreduce.Job: Running job: job_local16:20145:309 2001
2004-11-25 08:46:37,301 INFO output.FileOutputCommitter: FileOutputCommitter: Skip cleanup_temporary folders under output directory:false, ignore cleanup failures: false
2004-11-25 08:46:37,345 INFO mapred.localJobisumer: OutputCommitter sis org.apache.Hadoop.mapred.ele.lib.output.FileOutputCommitter
2004-11-25 08:46:37,345 INFO mapred.localJobisumer: Skirting false is org.apache.hadoop.mapred.ele.lib.output.fileOutputCommitter: FileOutputCommitter skip cleanup_temporary folders under output directory:false, ig
```

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

docker-compose.yaml update

```
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

docker-compose down