docker pull bde2020/hadoop-datanode:latest docker pull bde2020/hadoop-historyserver

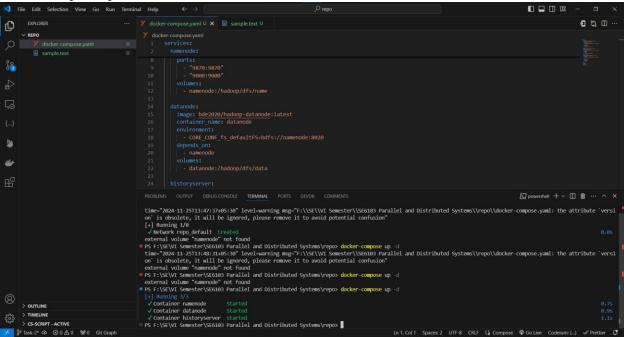
```
Command Prompt
Microsoft Windows [Version 10.0.19045.5131]
(c) Microsoft Corporation. All rights reserved.
C:\Users\user>docker pull bde2020/hadoop-datanode:latest
latest: Pulling from bde2020/hadoop-datanode
b91d0b0b68c8: Download complete
5e185246c615: Download complete
4bf0ae3d5cc8: Download complete
Digest: sha256:35f899bcbe9f983825a8a3bdc135ed0e8e0eaf3b58f9b08bf257b5e86bae3b47
Status: Downloaded newer image for bde2020/hadoop-datanode:latest
docker.io/bde2020/hadoop-datanode:latest
C:\Users\user>docker pull bde2020/hadoop-historyserver
Using default tag: latest
latest: Pulling from bde2020/hadoop-historyserver
f3f6b02c1935: Download complete
84560426d8fd: Download complete
78d381637ee0: Download complete
Digest: sha256:216100a96a73717006031ff0c8b72effdc7acffca0a6c647f8820cb7eabc81fd
Status: Downloaded newer image for bde2020/hadoop-historyserver:latest
docker.io/bde2020/hadoop-historyserver:latest
C:\Users\user>
```

docker volume create namenode

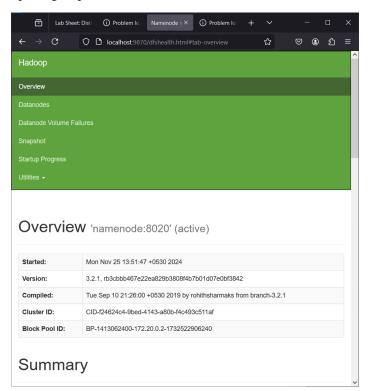
docker volume create namenode

```
Command Prompt
Microsoft Windows [Version 10.0.19045.5131]
(c) Microsoft Corporation. All rights reserved.
C:\Users\user>docker pull bde2020/hadoop-datanode:latest
latest: Pulling from bde2020/hadoop-datanode
b91d0b0b68c8: Download complete
5e185246c615: Download complete
4bf0ae3d5cc8: Download complete
Digest: sha256:35f899bcbe9f983825a8a3bdc135ed0e8e0eaf3b58f9b08bf257b5e86bae3b47
Status: Downloaded newer image for bde2020/hadoop-datanode:latest
docker.io/bde2020/hadoop-datanode:latest
C:\Users\user>docker pull bde2020/hadoop-historyserver
Using default tag: latest
latest: Pulling from bde2020/hadoop-historyserver
f3f6b02c1935: Download complete
84560426d8fd: Download complete
78d381637ee0: Download complete
Digest: sha256:216100a96a73717006031ff0c8b72effdc7acffca0a6c647f8820cb7eabc81fd
Status: Downloaded newer image for bde2020/hadoop-historyserver:latest
docker.io/bde2020/hadoop-historyserver:latest
C:\Users\user>docker volume create namenode
namenode
C:\Users\user>docker volume create datanode
datanode
C:\Users\user>
```

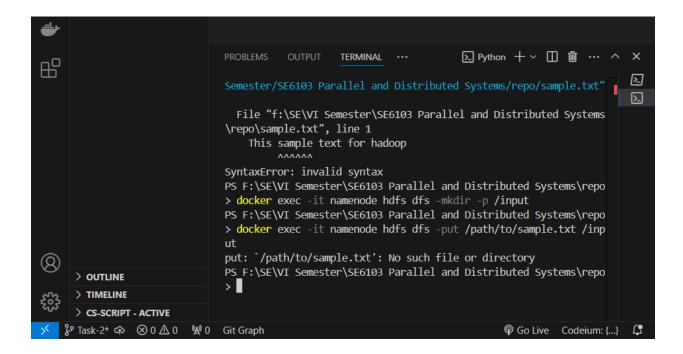
docker-compose up -d



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

```
put: `Parallel': No such file or directory
put: `and': No such file or directory
put: `oistributed': No such file or directory
ps: \systems\repo\sample.txt': Input
put: No filesystem for scheme "F"

Ps: F:\SE\VI Semester\\SE6103 Parallel and Distributed Systems\repo\sample.txt': Input
ps: \systems\repo\sample.txt': No filesystem for scheme "F"

Ps: F:\SE\VI Semester\\SE6103 Parallel and Distributed Systems\repo\sample.txt': No filesystem for scheme "F"

Ps: F:\SE\VI Semester\\SE6103 Parallel and Distributed Systems\repo\sample.txt': namenode hdfs dfs -ls /input
ps: \systems\repo\sample.txt': No filesystems\repo\sample.txt': No filesystems\r
```

Download the .jar file

https://repo1.mayen.org/mayen2/org/apache/hadoop/hadoop-mapreduce-examples/2.7.1/

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

 $docker\ exec\ -it\ name node\ hadoop\ jar\ /root/hadoop-map reduce-examples-2.7.1. jar\ word count\ /input\ /output$

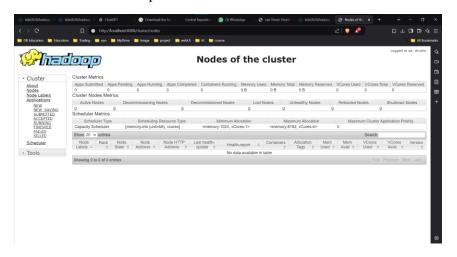
```
no such directory
PS F:\S\E\UT Semester\SE6183 Parallel and Distributed Systems\repox docker cp C:\Users\user\Downloads\hadoop-mapreduce-examples-2.7.1.jar namenode:/root/
Successfully copied 274&B to namenode:/root/
Successfully copied 274&B to namenode:/root/
PS F:\S\E\UT Semester\SE6183 Parallel and Distributed Systems\repox docker exec -it namenode hadoop jar /root/hadoop-mapreduce-examples-2.7.1.jar wordcount /input /output
2024-11-25 08:46:37,06 INFO impl.MetricsSystemingl: Scheduled Metric snapshot period at 10 second(s).
2024-11-25 08:46:37,701 INFO impl.MetricsSystemingl: Obtracker metrics System started
2024-11-25 08:46:37,701 INFO impl.MetricisSystemingl: Distracker metrics System started
2024-11-25 08:46:37,701 INFO impl.MetricisSystemingl: Scheduled Metric snapshot period at 10 second(s).
2024-11-25 08:46:37,701 INFO impl.MetricisSystemingl: Distracker metrics System started
2024-11-25 08:46:37,701 INFO impl.MetricisSystemingl: Scheduled Metric snapshot period at 10 second(s).
2024-11-25 08:46:37,301 INFO mapreduce.JobSubmitter: number of splits:1
2024-11-25 08:46:37,301 INFO mapreduce.JobSubmitter: Executing with tokens: []
2024-11-25 08:46:37,302 INFO mapreduce.JobSubmitter: Executing with tokens: []
2024-11-25 08:46:37,303 INFO mapreduce.Job: Running job: job_local1620145309_0001
2024-11-25 08:46:37,303 INFO mapreduce.Job: Running job: job_local1620145309_0001
2024-11-25 08:46:37,305 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2
2024-11-25 08:46:37,305 INFO output.FileOutputCommitter: File Output Committer Skip cleanup_temporary folders under output directory:false, ignore cleanup failures: false
2024-11-25 08:46:37,345 INFO mapred.LocalJobBurner: OutputCommitter skip cleanup_temporary folders under output directory:false, ignore cleanup failures: false
2024-11-25 08:46:37,46 INFO mapred.LocalJobBurner: Starting false; is org.apache.hadoop.mapred.eparary folders under output directory:false, ignore cleanup failures: false
2024-11-25 08:46:37,483 INFO mapred.Papais
```

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

```
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

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