

docker volume create namenode

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```
Command Prompt
Microsoft Windows [Version 10.0.19045.5131]
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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

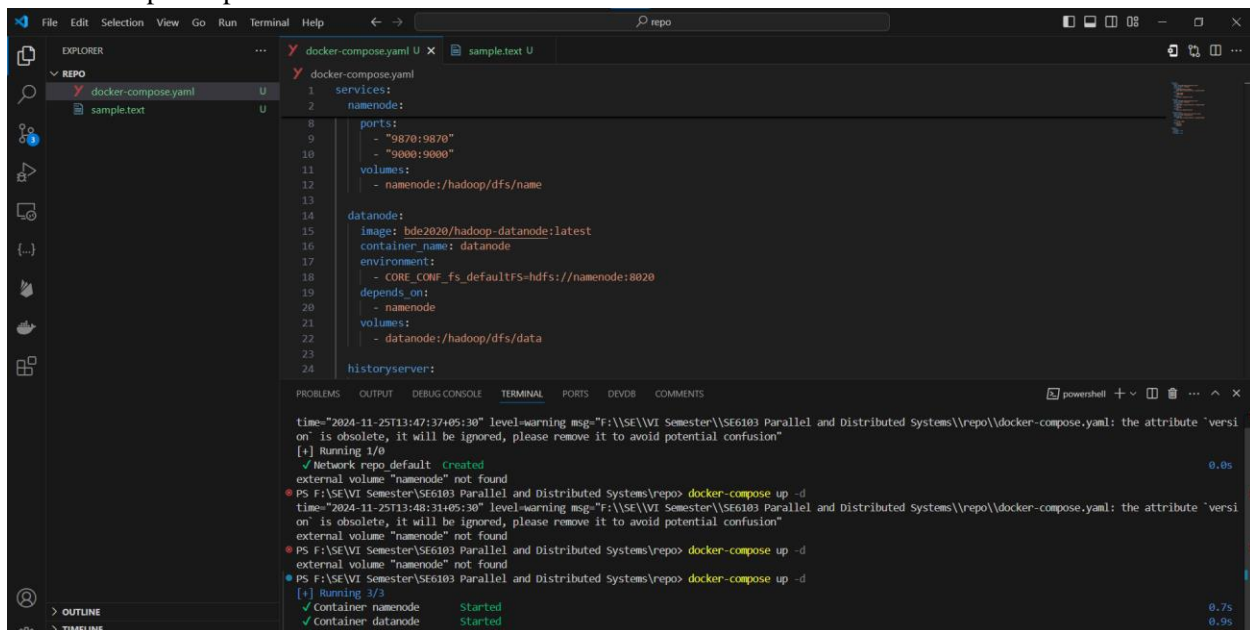
C:\Users\user>docker pull bde2020/hadoop-historyserver
Using default tag: latest
latest: Pulling from bde2020/hadoop-historyserver
f3f6b02c1935: Download complete
84560426d8fd: Download complete
78d381637ee0: Download complete
Digest: sha256:216100a96a73717006031ff0c8b72effdc7acffca0a6c647f8820cb7eabc81fd
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

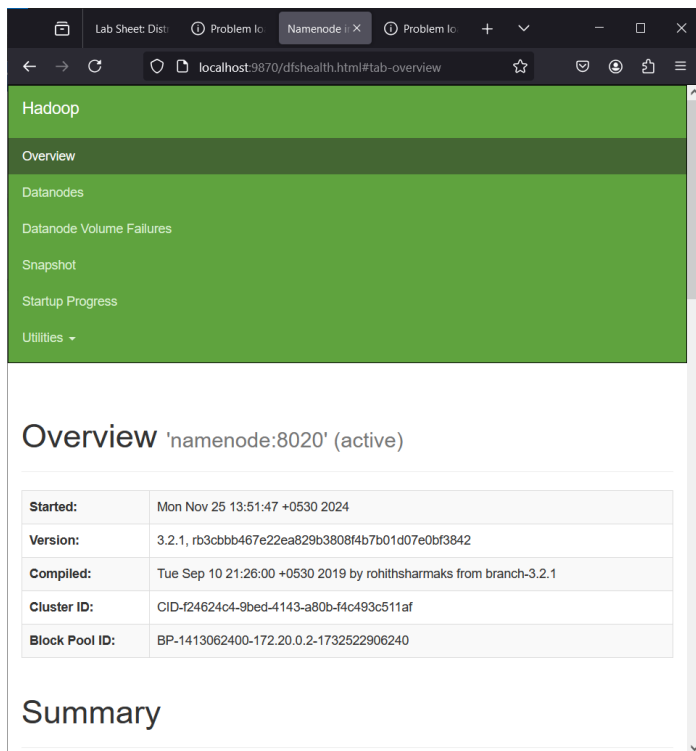
C:\Users\user>
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docker-compose up -d



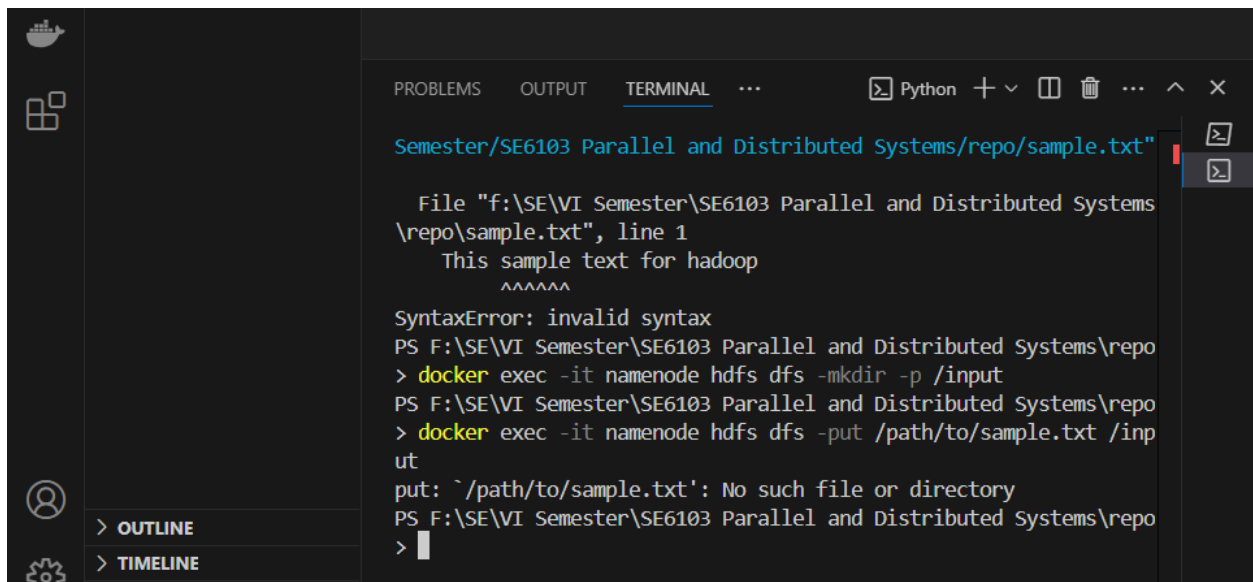
The screenshot shows the Visual Studio Code interface. The Explorer pane on the left shows a file named 'docker-compose.yml'. The main editor displays the content of this file, which defines three services: 'namenode', 'datanode', and 'historyserver'. The 'namenode' service is configured with ports 9870 and 9890, and a volume named 'namenode'. The 'datanode' service uses the 'bde2020/hadoop-datanode:latest' image, has a container name of 'datanode', and depends on the 'namenode' service. The 'historyserver' service uses the 'bde2020/hadoop-historyserver:latest' image. The bottom pane shows the terminal output of the command 'docker-compose up -d'. The output indicates that the 'namenode' service is not found, and the 'datanode' service is started successfully. The terminal also shows a warning message about the 'version' attribute being obsolete.

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File Edit Selection View Go Run Terminal Help
docker-compose.yml
sample.text U
docker-compose.yml
1 services:
2 namenode:
3
4 ports:
5 - "9870:9870"
6 - "9890:9890"
7 volumes:
8 - namenode:/hadoop/dfs/name
9
10 datanode:
11 image: bde2020/hadoop-datanode:latest
12 container_name: datanode
13 environment:
14 - CORE_CONF_fs_defaultFS=hdfs://namenode:8020
15 depends_on:
16 - namenode
17 volumes:
18 - datanode:/hadoop/dfs/data
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20 historyserver:
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```
docker exec -it namenode hdfs dfs -mkdir -p /input
```

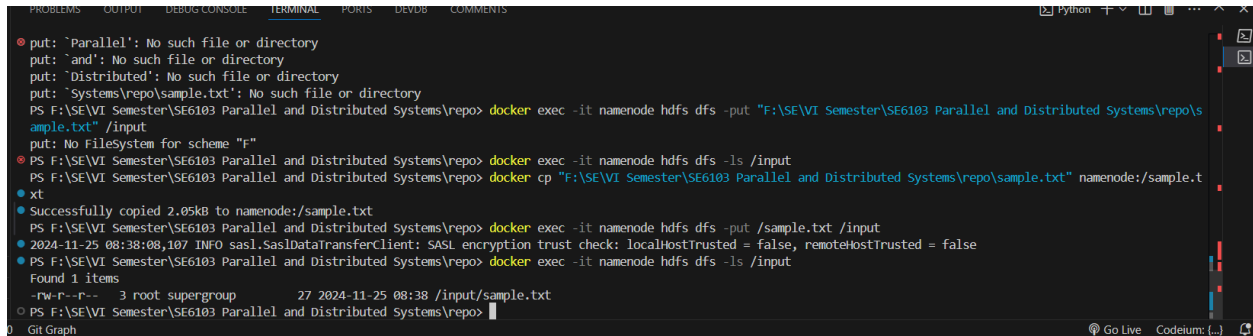
```
docker exec -it namenode hdfs dfs -put /path/to/sample.txt /input
```



```
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
```



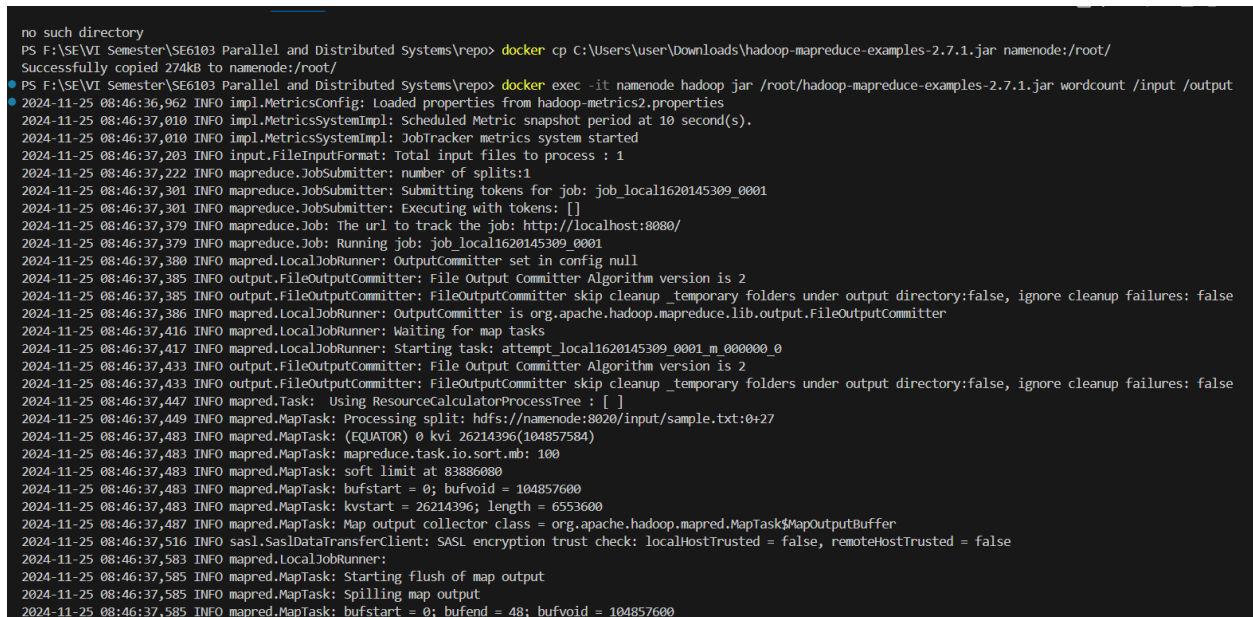
```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS DEVDB COMMENTS
put: 'Parallel': No such file or directory
put: 'and': No such file or directory
put: 'Distributed': No such file or directory
put: 'Systems\repo\sample.txt': No such file or directory
PS F:\SE\VI Semester\SE6103 Parallel and Distributed Systems\repo> docker exec -it namenode hdfs dfs -put "F:\SE\VI Semester\SE6103 Parallel and Distributed Systems\repo\sample.txt" /input
put: No FileSystem for scheme "F"
PS F:\SE\VI Semester\SE6103 Parallel and Distributed Systems\repo> docker exec -it namenode hdfs dfs -ls /input
PS F:\SE\VI Semester\SE6103 Parallel and Distributed Systems\repo> docker cp "F:\SE\VI Semester\SE6103 Parallel and Distributed Systems\repo\sample.txt" namenode:/sample.txt
xt
Successfully copied 2.05kB to namenode:/sample.txt
PS F:\SE\VI Semester\SE6103 Parallel and Distributed Systems\repo> docker exec -it namenode hdfs dfs -put /sample.txt /input
2024-11-25 08:38:08,107 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteHostTrusted = false
PS F:\SE\VI Semester\SE6103 Parallel and Distributed Systems\repo> docker exec -it namenode hdfs dfs -ls /input
Found 1 items
-rw-r--r-- 3 root supergroup 27 2024-11-25 08:38 /input/sample.txt
PS F:\SE\VI Semester\SE6103 Parallel and Distributed Systems\repo>
Git Graph
```

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:\SE\VI Semester\SE6103 Parallel and Distributed Systems\repo> docker cp C:\Users\user\Downloads\hadoop-mapreduce-examples-2.7.1.jar namenode:/root/
Successfully copied 274kB to namenode:/root/
PS F:\SE\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
2024-11-25 08:46:36,962 INFO impl.MetricsConfig: Loaded properties from hadoop-metrics2.properties
2024-11-25 08:46:37,010 INFO impl.MetricsSystemImpl: Scheduled Metric snapshot period at 10 second(s).
2024-11-25 08:46:37,010 INFO impl.MetricsSystemImpl: JobTracker metrics system started
2024-11-25 08:46:37,203 INFO input.FileInputFormat: Total input files to process : 1
2024-11-25 08:46:37,222 INFO mapreduce.JobSubmitter: number of splits:1
2024-11-25 08:46:37,301 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_local1620145309_0001
2024-11-25 08:46:37,301 INFO mapreduce.JobSubmitter: Executing with tokens: []
2024-11-25 08:46:37,379 INFO mapreduce.Job: The url to track the job: http://localhost:8080/
2024-11-25 08:46:37,379 INFO mapreduce.Job: Running job: job_local1620145309_0001
2024-11-25 08:46:37,380 INFO mapred.LocalJobRunner: OutputCommitter set in config null
2024-11-25 08:46:37,385 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2
2024-11-25 08:46:37,385 INFO output.FileOutputCommitter: FileOutputCommitter skip cleanup _temporary folders under output directory:false, ignore cleanup failures: false
2024-11-25 08:46:37,386 INFO mapred.LocalJobRunner: OutputCommitter is org.apache.hadoop.mapreduce.lib.output.FileOutputCommitter
2024-11-25 08:46:37,416 INFO mapred.LocalJobRunner: Waiting for map tasks
2024-11-25 08:46:37,417 INFO mapred.LocalJobRunner: Starting task: attempt_local1620145309_0001_m_000000_0
2024-11-25 08:46:37,433 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2
2024-11-25 08:46:37,433 INFO output.FileOutputCommitter: FileOutputCommitter skip cleanup _temporary folders under output directory:false, ignore cleanup failures: false
2024-11-25 08:46:37,447 INFO mapred.Task: Using ResourceCalculatorProcessTree: [ ]
2024-11-25 08:46:37,449 INFO mapred.MapTask: Processing split: hdfs://namenode:8020/input/sample.txt:0+27
2024-11-25 08:46:37,483 INFO mapred.MapTask: (EQUATOR) 0 kvi 26214396(104857584)
2024-11-25 08:46:37,483 INFO mapred.MapTask: mapreduce.task.io.sort.mb: 100
2024-11-25 08:46:37,483 INFO mapred.MapTask: soft limit at 83886080
2024-11-25 08:46:37,483 INFO mapred.MapTask: bufstart = 0; bufvoid = 104857600
2024-11-25 08:46:37,483 INFO mapred.MapTask: kvstart = 26214396; length = 6553600
2024-11-25 08:46:37,487 INFO mapred.MapTask: Map output collector class = org.apache.hadoop.mapred.MapTask$MapOutputBuffer
2024-11-25 08:46:37,516 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteHostTrusted = false
2024-11-25 08:46:37,583 INFO mapred.LocalJobRunner:
2024-11-25 08:46:37,585 INFO mapred.MapTask: Starting flush of map output
2024-11-25 08:46:37,585 INFO mapred.MapTask: Spilling map output
2024-11-25 08:46:37,585 INFO mapred.MapTask: bufstart = 0; bufend = 48; bufvoid = 104857600
```

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

docker-compose.yaml update

```
resourcemanager:
```

```
image: bde2020/hadoop-resourcemanager:latest
```

```
container_name: resourcemanager
```

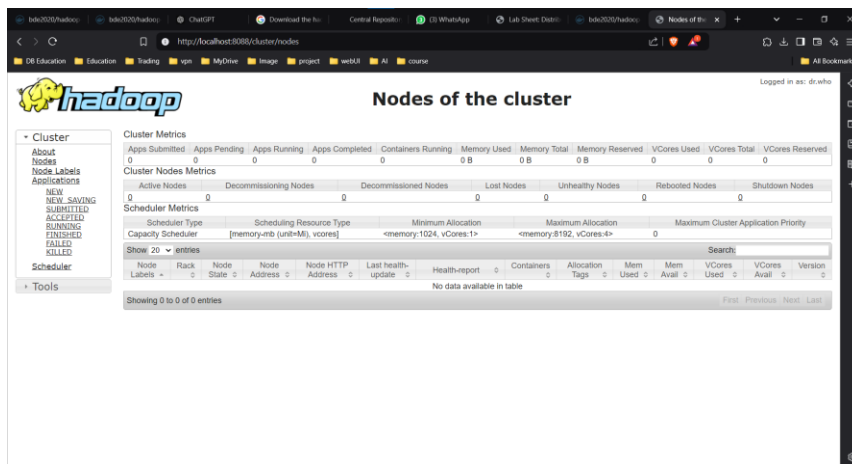
```
environment:
```

```
- 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
2024-11-25 09:03:28,371 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteHostTrusted = false
This 1
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text 1
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docker-compose down