bde2020/hadoop-namenode

```
What's next:

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

PS C:\Users\warun> docker pull bde2020/hadoop-namenode:

Status: Image is up to date for bde2020/hadoop-namenode:latest

docker.io/bde2020/hadoop-namenode:latest

What's next:

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

PS C:\Users\warun>
```

bde2020/hadoop-datanode

```
C:\Users\warun>docker pull bde2020/hadoop-datanode:latest
latest: Pulling from bde2020/hadoop-datanode
5e185246c615: Download complete
4bf0ae3d5cc8: Download complete
991d0b0b68c8: Download complete
Digest: sha256:35f899bcbe9f983825a8a3bdc135ed0e8e0eaf3b58f9b08bf257b5e86bae3b47
Status: Downloaded newer image 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\warun>
```

docker pull bde2020/hadoop-historyserver

```
C:\Users\warun>docker pull bde2020/hadoop-historyserver
Using default tag: latest
latest: Pulling from bde2020/hadoop-historyserver
f3f6b02c1935: Download complete
78d381637ee0: Download complete
845660426d8fd: Download complete
Digest: sha256:216100a96a73717006031ff0c8b72effdc7acffca0a6c647f8820cb7eabc81fd
Status: Downloaded newer image 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\warun>
```

docker volume create namenode

docker volume create namenode

```
PS C:\Users\warun\OneDrive\Desktop\DOCKER> docker-compose up -d

[+] Running 2/3

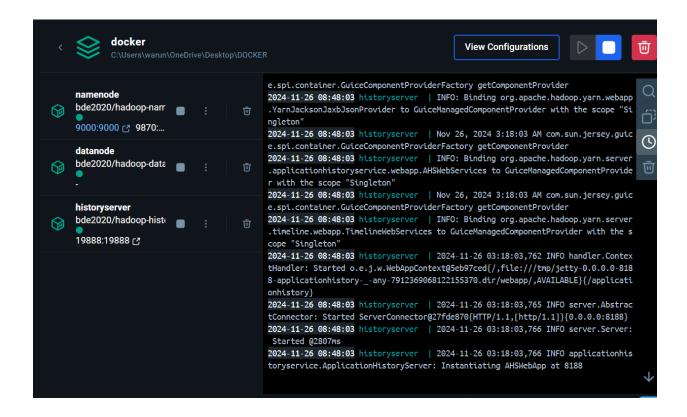
- Container namenode Starting 0.5s

✓ Container datanode Created 0.1s

✓ Container historyserver Created 0.1s

Error response from daemon: Ports are not available: exposing port TCP 0.0.0.0:9870 -> 0.0.0.0:0: listen tcp 0.0.0.0:9870: bind: An attempt was made to access a socket in a way forbidden by its access permissions.

PS C:\Users\warun\OneDrive\Desktop\DOCKER>
```



opening http://localhost:9870

Hadoop Overview Datanodes Datanode Volume Failures Snapshot Startup Progress Utilities -

Overview 'namenode:8020' (active)

Started:	Tue Nov 26 08:48:03 +0530 2024	
Version:	3.2.1, rb3cbbb467e22ea829b3808f4b7b01d07e0bf3842	
Compiled:	Tue Sep 10 21:26:00 +0530 2019 by rohithsharmaks from branch-3.2.1	
Cluster ID:	CID-4e0l7aab-0b8c-4458-a9a0-70cc9ab0ccab	
Block Pool ID:	BP-748252151-172.19.0.2-1732591082379	

Summary

Security is off.

Safemode is off.

1 files and directories, 0 blocks (0 replicated blocks, 0 erasure coded block groups) = 1 total filesystem object(s).

Heap Memory used 150.3 MB of 240 MB Heap Memory. Max Heap Memory is 1.7 GB.

Non Heap Memory used 45.48 MB of 46.81 MB Committed Non Heap Memory. Max Non Heap Memory is <unbounded>

Configured Capacity:	1006.85 GB
Configured Remote Capacity:	0 B
BPS III-	04 1/0 (00/)

Non Heap Memory used 45.48 MB of 46.81 MB Committed Non Heap Memory. Max Non Heap Memory is <unbounded>.</unbounded>			
Configured Capacity:	1006.85 GB		
Configured Remote Capacity:	0 B		
DFS Used:	24 KB (0%)		
Non DFS Used:	3.43 GB		
DFS Remaining:	952.21 GB (94.57%)		
Block Pool Used:	24 KB (0%)		
DataNodes usages% (Min/Median/Max/stdDev):	0.00% / 0.00% / 0.00% / 0.00%		
Live Nodes	1 (Decommissioned: 0, In Maintenance: 0)		
Dead Nodes	0 (Decommissioned: 0, In Maintenance: 0)		
Decommissioning Nodes	0		
Entering Maintenance Nodes	0		
Total Datanode Volume Failures	0 (0 B)		
Number of Under-Replicated Blocks	0		
Number of Blocks Pending Deletion (including replicas)	0		
Block Deletion Start Time	Tue Nov 26 08:48:03 +0530 2024		
Last Checkpoint Time	Tue Nov 26 08:48:02 +0530 2024		
Enabled Erasure Coding Policies	RS-6-3-1024k		

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

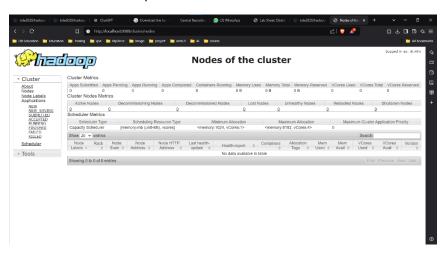
```
no such directory
PS F:\SE\VI Semester\SE6103 Parallel and Distributed Systems\repo> docker cp C:\Users\user\Downloads\hadoop-mapreduce-examples-2.7.1.jar namenode:/root/
Successfully complexed 2746b to namenode:/root/
Sp F:\SE\VI Semester\SE6103 Parallel and Distributed Systems\repo> docker exec -it namenode hadoop jar /root/hadoop-mapreduce-examples-2.7.1.jar wordcount /input /output
8204.11-25 08.466:39,062 IMFO impl.MetricsSystemspl: scheduled Metric snapshot period at 10 second(s).
8204.11-25 08.466:37,010 IMFO impl.MetricsSystemspl: scheduled Metric snapshot period at 10 second(s).
8204.11-25 08.466:37,010 IMFO impl.MetricsSystemspl: sobtracker metrics system started
8204.11-25 08.466:37,010 IMFO impl.MetricsSystemspl: sobtracker metrics system started
8204.11-25 08.466:37,010 IMFO impreduce.obs\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u00eds\u
```

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