# Step 2: Start the Hadoop Container

### Run the Container:

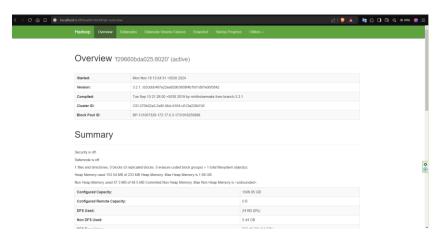
```
C:\Windows\System32>docker run -it --name new-hadoop-cluster -p 8:9870 -p 9:8088 -p 10:50070 bde2020/hadoop-namenode:latest /bin/bash
Configuring core
- Setting fs.defaultFS=hdfs://f29660bda025:8020
Configuring hdfs
- Setting dfs.namenode.name.dir=file:///hadoop/dfs/name
Configuring yarn
Configuring yarn
Configuring httpfs
Configuring thtpfs
Configuring kms
Configuring mapred
Configuring mapred
Configuring for multihomed network
root@f29660bda025:/# __
```

# **Start Hadoop Services:**

```
Manuschitzer Commond Prompt - Gooder on at -norm one haloug-cluster p. $5000 p. $100000 p. $200000 p. $2000000 p. $200000 p. $2000000 p. $200000 p. $2000000 p. $200000 p. $200000000 p. $2000000 p. $200000 p. $200000 p. $200000 p. $200000 p. $
```

### Access Hadoop Web Interfaces

### HDFS Web Interface:



```
STARTUP_PGG: Starting Rode/anager: STARTUP_PGG: pt. 186 9:1952.15.12 Ref. (pt. 186 9:1952.15 Ref. (pt. 186 9:1952.15 Ref. (pt. 18
```

```
TARTUP JSG: Starting ResourceManager | STARTUP JSG: |
STARTUP JSG: Starting ResourceManager | STARTUP JSG: |
STARTUP JSG: | Starting ResourceManager | STARTUP JSG: |
STARTUP JSG: | Starting ResourceManager | STARTUP JSG: |
STARTUP JSG: | Starting ResourceManager | STARTUP JSG: |
STARTUP JSG: | Starting ResourceManager | STARTUP JSG: |
STARTUP JSG: | Starting ResourceManager | STARTUP JSG: |
STARTUP JSG: | Starting ResourceManager | STARTUP JSG: | Starting ResourceManager | STARTUP JSG: | Starting ResourceManager | STARTUP JSG: | Starting ResourceManager | STARTUP JSG: | Starting ResourceManager | STARTUP JSG: | Starting ResourceManager | STARTUP JSG: | Starting ResourceManager | STARTUP JSG: | Starting ResourceManager | STARTUP JSG: | Starting ResourceManager | STARTUP JSG: | Starting ResourceManager | STARTUP JSG: | Starting ResourceManager | STARTUP JSG: | Starting ResourceManager | Starting Resou
```

# Running a Sample MapReduce Job

# Upload Sample Data to HDFS:

```
The Control of State Change BOOC* allocate bl. 1877/1885. [00], replicas 172.17.0.31986 for /user/hadooy/input/capacity.schedular.anl._COPTING_
2024.11.18 08:34.278.099 JNFO unit. StateChange BOOC* allocate bl. 1877/1885. [00], replicas 172.17.0.31986 for /user/hadooy/input/capacity.schedular.anl._COPTING_
2024.11.18 08:34.278.099 JNFO unit. StateChange BOOC* allocate bl. 1877/1885. [00], replicas 172.17.0.31986 [00], repl
```

#### Runthe WordCount Job:

```
root@f29660bda025:/# hadoop jar
Jsage: hadoop jar <jar> [mainClass] args...
```

```
PSARCE: TROUGODY JRT Clark PMBLOGY JRMC/hamer/hadoog/lampendoce/ladoop-sepreduce-examples-*_law sondcount /user/hadoog/lampet /user/hadoog/cotput
2024-11:18 80:36:25,303 URD [lamplet-icconfig: leaded properties from hadoop-services/properties
2024-11:18 80:36:25,503 URD [lamplet-icconfig: leaded properties from hadoop-services/properties
2024-11:18 80:36:25,503 URD [lamplet-icconfig: leaded properties from hadoop-services/properties
2024-11:18 80:36:25,503 URD [lamplet-icconfig: leaded properties from hadoop-services/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/properties/pr
```

# Check the Output:

```
root@f29660bda025:/# hdfs dfs -cat /user/hadoop/output/part-r-00000
2024-11-18 08:38:47,676 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
  "AS
  "License");
  "alice,bob
"clumping"
(ASF) 1
  the)
  1-MAX_INT.
  </configuration>
  </property> 5
<?xml 8
<?xml-stylesheet</pre>
  <configuration> 9
   description>
 <description> 31
<description>ACL
<description>Default
    name>default.key.acl.DECRYPT_EEK</name>
cname>default.key.acl.DECRYPT_EEK</name>
cname>default.key.acl.GENERATE_EEK</name>
cname>default.key.acl.MANAGEMENT</name> 1
cname>default.key.acl.READ</name> 1
cname>default.key.acl.READ</name> 1
cname>hadoop.kms.acl.DECRYPT_EEK</name> 1
cname>hadoop.kms.acl.DELETE</name> 1
cname>hadoop.kms.acl.DELETE</name> 1
cname>hadoop.kms.acl.GET</name> 1
cname>hadoop.kms.acl.GET</name> 1
cname>hadoop.kms.acl.GET_KEYS</name> 1
cname>hadoop.kms.acl.GET_KEY MATERIAL</name> 1
cname>hadoop.kms.acl.SET_KEY MATERIAL</name> 1
cname>hadoop.kms.acl.SET_KEY MATERIAL</name>
  <name>hadoop.kms.acl.SET_KEY_MATERIAL</name>
 <name>security.admin.operations.protocol.acl</name>
<name>security.applicationclient.protocol.acl</name>
<name>security.applicationhistory.protocol.acl</name>

<
  <name>security.collector-nodemanager.protocol.acl</name><name>security.containermanagement.protocol.acl</name>
```