

## docker pull bde2020/hadoop-namenode

```
Select Administrator: Command Prompt

--tls                "warn", "error", "fatal") (default "info")
                    Use TLS; implied by --tlsverify
--tlscacert string   Trust certs signed only by this CA (default
                    "C:\\Users\\warun\\.docker\\ca.pem")
--tlscert string      Path to TLS certificate file (default
                    "C:\\Users\\warun\\.docker\\cert.pem")
--tlskey string       Path to TLS key file (default
                    "C:\\Users\\warun\\.docker\\key.pem")
--tlsverify          Use TLS and verify the remote
-v, --version        Print version information and quit

Run 'docker COMMAND --help' for more information on a command.

For more help on how to use Docker, head to https://docs.docker.com/go/guides/

C:\\Windows\\System32>docker pull bde2020/hadoop-namenode
Using default tag: latest
latest: Pulling from bde2020/hadoop-namenode
d4dd5a449e99: Download complete
883a89599908: Download complete
c3a84a3e49c8: Download complete
77920a3e82af: Download complete
aa53513fe997: Download complete
865640a64a75: Download complete
8b1800105b98: Download complete
92329e81aec4: Download complete
a29cc756d786: Download complete
abf352b16046: Download complete
f373218fec59: Download complete
3192219afd04: Download complete
7127a1d8cced: Download complete
Digest: sha256:fd74110805132d646cf6f12635efc0919e1fb2ac5bd376c5366272fc261301e
Status: Downloaded newer image 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
```

## docker images

```
Administrator: Command Prompt

build      Build an image from a Dockerfile
history    Show the history of an image
import     Import the contents from a tarball to create a filesystem image
inspect    Display detailed information on one or more images
load       Load an image from a tar archive or STDIN
ls         List images
prune      Remove unused images
pull       Download an image from a registry
push       Upload an image to a registry
rm         Remove one or more images
save       Save one or more images to a tar archive (streamed to STDOUT by default)
tag        Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE

Run 'docker image COMMAND --help' for more information on a command.

C:\\Windows\\System32>docker images
REPOSITORY          TAG         IMAGE ID      CREATED       SIZE
frist-app           1.2        4431953fae6b 2 weeks ago   226MB
frist-app           1.1        754e2264db8b 2 weeks ago   226MB
nginx               latest     28402db69fec 6 weeks ago   279MB
hello-world         latest     d211f485f2dd 18 months ago 24.4kB
bde2020/hadoop-namenode latest     fd741108051  4 years ago   2.05GB

C:\\Windows\\System32>
```

```
docker run -it --name hadoop-cluster -p 9870:9870 -p 8088:8088 -p 50070:50070 bde2020/hadoop-namenode:latest /bin/bash
```

```
Administrator: Command Prompt  docker run -it --name hadoop-cluster -p 9870:9870 -p 8088:8088 -p 50070:50070 bde2020/hadoop-namenode:latest /bin/bash

C:\Windows\System32>docker run -it --name hadoop-cluster -p 9870:9870 -p 8088:8088 -p 50070:50070 bde2020/hadoop-namenode:latest /bin/bash
Configuring core
- Setting fs.defaultFS=hdfs://e186863eb425:8020
Configuring hdfs
- Setting dfs.namenode.name.dir=file:///hadoop/dfs/name
Configuring yarn
Configuring httpfs
Configuring kms
Configuring mapred
Configuring for multihomed network
root@e186863eb425:/#
```

```
hdfs namenode -format
```

```
Administrator Command Prompt - docker run -it --name hadoop-cluster -p 9870:9870 -p 8088:8088 -p 50070:50070 bde2320:hadoop-namednode/latest /bin/bash
STARTUP_MSG: Starting NameNode
STARTUP_MSG: host = e186863eb425/172.17.0.2
STARTUP_MSG: args = [-format]
STARTUP_MSG: version = 3.2.1
STARTUP_MSG: classpath = /etc/hadoop/opt/hadoop-3.2.1/share/hadoop/common/lib/snappy-java-1.0.5.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jaxb-impl-2.2
tty-3.10.5.Final.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/paranamer-2.3.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-core-2.9.8.jar:/opt/hadoop-
t/hadoop-3.2.1/share/hadoop/common/lib/slf4j-api-1.7.25.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-codec-1.11.jar:/opt/hadoop-3.2.1/share/hadoop/co
/hadoop-3.2.1/share/hadoop/common/lib/jackson-mapper-asl-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-admin-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jack
lib/jetty-io-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jsch-0.1.54.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-configur
lib/kerby-util-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/httpcore-4.4.10.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/failureaccess-1.0.jar:/opt/ha
ar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-collections-3.2.2.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/token-provider-1.0.1.jar:/opt/hadoop-3.2.1/s
/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-client-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-server-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/s
op-3.2.1/share/hadoop/common/lib/protobuf-java-2.5.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-core-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib
op/common/lib/curator-recipes-2.13.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/hadoop-annotations-3.2.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb
on/lib/curator-framework-2.13.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/metrics-core-3.2.4.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/slf4j-log4j12-1
hadoop-auth-3.2.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/avro-1.7.7.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jcip-annotations-1.0.1.jar:/opt/hadoop
r:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-security-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-servlet-9.3.24.v20180605.jar/
y-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/javax.servlet-api-3.0.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-beanutils-1.9.3.jar:/opt/
hadoop-3.2.1/share/hadoop/common/lib/kerb-util-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-io-2.5.jar:/opt/hadoop-3.2.1/share/hadoop-3.2.1/share/hadoop
flict-with-guava.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-core-asl-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-webapp-9.3.24.v2018
race-core4-1.0-incubating.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jsp-api-2.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-math3-3.1.1.jar:/o
1.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-simplekdc-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-databind-2.9.8.jar:/opt/hadoop-3.
hadoop-3.2.1/share/hadoop/common/lib/commons-text-1.4.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-compress-1.18.jar:/opt/hadoop-3.2.1/share/hadoop/c
3.2.1/share/hadoop/common/lib/gson-2.2.4.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/dnsjava-2.1.7.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/log4j-1.2.1
-http-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/guava-27.0-jre.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jersey-servlet-1.19.jar:/o
5.2.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/re2j-1.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-util-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/s
hadoop-3.2.1/share/hadoop/common/lib/kerb-server-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jison-smart-2.3.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib
n/lib/j2objc-annotations-1.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerby-config-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jettison-1.1.jar:/
jvt-4.41.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-annotations-2.9.8.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jsr305-3.0.0.jar:/opt/hadoop-
t/hadoop-3.2.1/share/hadoop/common/lib/kerb-crypto-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/animal-sniffer-annotations-1.17.jar:/opt/hadoop-3.2.1/s
-p-3.2.1/share/hadoop/common/lib/accessors-smart-1.2.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-xml-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoo
/share/hadoop/common/lib/httpclient-4.5.6.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-net-3.6.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-
lib/zookeeper-3.4.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/woodstox-core-5.0.3.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/error_prone_annotations-2.
common-3.2.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/hadoop-common-3.2.1-tests.jar:/opt/hadoop-3.2.1/share/hadoop/common/hadoop-kms-3.2.1.jar:/opt/hadoop-3.
oop-3.2.1/share/hadoop/hdfs:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/snappy-java-1.0.5.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/jaxb-impl-2.2.3-1.jar:/opt/h
hadoop-3.2.1/share/hadoop/hdfs/lib/paranamer-2.3.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/jackson-core-2.9.8.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/jack
hadoop/hdfs/lib/commons-codec-1.11.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/jersey-json-1.19.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/jackson-mapper-asl-1.
b-admin-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/jackson-jaxrs-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/hdfs/lib/jetty-io-9.3.24.v20180605.jar:/opt/
```

```

# hdfs namenode &
# \2024-11-18 08:34:05,033 INFO namenode.NameNode: STARTUP_MSG:
/*****
STARTUP_MSG: Starting NameNode
STARTUP_MSG: host = e186863eb425/172.17.0.2
STARTUP_MSG: args = []
STARTUP_MSG: version = 3.2.1
STARTUP_MSG: classpath = /etc/hadoop:/opt/hadoop-3.2.1/share/hadoop/common/lib/snappy-java-1.0.5.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jaxb-impl-2.2.3-1.j
ar:/opt/hadoop-3.2.1/share/hadoop/common/lib/netty-3.10.5.Final.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/paranamer-2.3.jar:/opt/hadoop-3.2.1/share/hadoop/commo
n/lib/jackson-core-2.9.8.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-cli-1.2.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/slf4j-api-1.7.25.jar:/opt/hadoop
-3.2.1/share/hadoop/common/lib/commons-codec-1.11.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jersey-json-1.19.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jack
son-mapper-asl-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-admin-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-jaxrs-1.9.13.jar:/opt/had
oop-3.2.1/share/hadoop/common/lib/jetty-io-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jsch-0.1.54.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/
commons-configuration2-2.1.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerby-util-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/httpcore-4.4.10.jar:/opt/h
adoop-3.2.1/share/hadoop/common/lib/failureaccess-1.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerby-pkix-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/c
ommons-collections-3.2.2.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/token-provider-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/curator-client-2.13.0.jar:/
opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-client-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-server-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/
hadoop/common/lib/jersey-core-1.19.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/protobuf-java-2.5.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-core-1.0.1.jar
ar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-xc-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/curator-recipes-2.13.0.jar:/opt/hadoop-3.2.1/share/hadoo
p/common/lib/hadoop-annotations-3.2.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-common-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/curator-framewo
rk-2.13.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/metrics-core-3.2.4.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/slf4j-log4j12-1.7.25.jar:/opt/hadoop-3.2.1/

```

```
# hdfs datanode &
# 2024-11-18 08:36:57,380 INFO datanode.DataNode: STARTUP_MSG:
/*****
STARTUP_MSG: Starting DataNode
STARTUP_MSG: host = e186863eb425/172.17.0.2
STARTUP_MSG: args = []
STARTUP_MSG: version = 3.2.1
STARTUP_MSG: classpath = /etc/hadoop:/opt/hadoop-3.2.1/share/hadoop/common/lib/snappy-java-1.0.5.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jaxb-impl-2.2.3-1.j
ar:/opt/hadoop-3.2.1/share/hadoop/common/lib/netty-3.10.5.Final.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/paranamer-2.3.jar:/opt/hadoop-3.2.1/share/hadoop/commo
n/lib/jackson-core-2.9.8.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-cli-1.2.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/slf4j-api-1.7.25.jar:/opt/hadoo
p-3.2.1/share/hadoop/common/lib/commons-codec-1.11.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jersey-json-1.19.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jack
son-mapper-asl-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-admin-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-jaxrs-1.9.13.jar:/opt/had
oop-3.2.1/share/hadoop/common/lib/jetty-0.9.324.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jsch-0.1.54.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/
commons-configuration2-2.11.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerby-util-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/httpcore-4.4.10.jar:/opt/h
adoop-3.2.1/share/hadoop/common/lib/failureaccess-1.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerby-pkix-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/c
ommons-collections-3.2.2.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/token-provider-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/curator-client-2.13.0.jar:/
/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-client-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-server-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/
hadoop/common/lib/jersey-core-1.19.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/protobuf-java-2.5.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-core-1.0.1.j
ar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-xc-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/curator-recipes-2.13.0.jar:/opt/hadoop-3.2.1/share/hado
op/common/lib/hadoop-annotations-3.2.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-common-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/curator-framewo
rk-2.13.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/metrics-core-3.2.4.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/slf4j-log4j12-1.7.25.jar:/opt/hadoop-3.2.1/
```

```
# yarn nodemanager &
# 2024-11-18 08:38:39,161 INFO nodemanager.NodeManager: STARTUP_MSG:
/*****
STARTUP_MSG: Starting NodeManager
STARTUP_MSG: host = e186863eb425/172.17.0.2
STARTUP_MSG: args = []
STARTUP_MSG: version = 3.2.1
STARTUP_MSG: classpath = /etc/hadoop:/opt/hadoop-3.2.1/share/hadoop/common/lib/snappy-java-1.0.5.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jaxb-impl-2.2.3-1.j
ar:/opt/hadoop-3.2.1/share/hadoop/common/lib/netty-3.10.5.Final.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/paranamer-2.3.jar:/opt/hadoop-3.2.1/share/hadoop/commo
n/lib/jackson-core-2.9.8.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-cli-1.2.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/slf4j-api-1.7.25.jar:/opt/hadoo
p-3.2.1/share/hadoop/common/lib/commons-codec-1.11.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jersey-json-1.19.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jack
son-mapper-asl-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-admin-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-jaxrs-1.9.13.jar:/opt/had
oop-3.2.1/share/hadoop/common/lib/jetty-io-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jsch-0.1.54.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/
commons-configuration2-2.1.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerby-util-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/httpcore-4.4.10.jar:/opt/h
adoop-3.2.1/share/hadoop/common/lib/failureaccess-1.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerby-pkix-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/c
ommons-collections-3.2.2.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/token-provider-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/curator-client-2.13.0.jar:/
opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-client-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-server-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/
hadoop/common/lib/jersey-core-1.19.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/protobuf-java-2.5.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-core-1.0.1.j
ar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-xc-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/curator-recipes-2.13.0.jar:/opt/hadoop-3.2.1/share/hado
op/common/lib/hadoop-annotations-3.2.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-common-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/curator-framewo
rk-2.13.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/metrics-core-3.2.4.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/slf4j-log4j12-1.7.25.jar:/opt/hadoop-3.2.1
*****/
```



## yarn resourcemanager &

```
# 2024-11-18 08:41:24,894 INFO ipc.Client: Retrying connect to server: 0.0.0.0/0.0.0.0:8031. Already tried 0 time(s); retry policy is RetryUpToMaximumCountWithFixedSleep(maxRetries=10, sleepTime=1000 MILLISECONDS)
yarn resourcemanager &
# 2024-11-18 08:41:25,895 INFO ipc.Client: Retrying connect to server: 0.0.0.0/0.0.0.0:8031. Already tried 1 time(s); retry policy is RetryUpToMaximumCountWithFixedSleep(maxRetries=10, sleepTime=1000 MILLISECONDS)
2024-11-18 08:41:26,134 INFO resourcemanager.ResourceManager: STARTUP_MSG:
/*****
STARTUP_MSG: Starting ResourceManager
STARTUP_MSG: host = e186863eb425/172.17.0.2
STARTUP_MSG: args = []
STARTUP_MSG: version = 3.2.1
STARTUP_MSG: classpath = /etc/hadoop:/opt/hadoop-3.2.1/share/hadoop/common/lib/snappy-java-1.0.5.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jaxb-impl-2.2.3-1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/netty-3.10.5.Final.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/paranamer-2.3.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-core-2.9.8.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-cli-1.2.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/slf4j-api-1.7.25.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-codec-1.11.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jersey-json-1.19.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-mapper-asl-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-admin-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jackson-jaxrs-1.9.13.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-io-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jsch-0.1.54.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-configuration2-2.1.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerby-util-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/httpcore-4.4.10.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/failureaccess-1.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerby-pkix-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/commons-collections-3.2.2.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/token-provider-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/curator-client-2.13.0.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/kerb-client-1.0.1.jar:/opt/hadoop-3.2.1/share/hadoop/common/lib/jetty-server-9.3.24.v20180605.jar:/opt/hadoop-3.2.1/share/
```

## hdfs dfs -mkdir -p /user/hadoop/input

```
# hdfs dfs -mkdir -p /user/hadoop/input
2024-11-18 08:45:22,751 INFO namenode.FSEditLog: Number of transactions: 4 Total time for transactions(ms): 8 Number of transactions batched in Syncs: 0 Number of syncs: 2 SyncTimes(ms): 9
#
```

## hdfs dfs -put \$HADOOP\_HOME/etc/hadoop/\*.xml /user/hadoop/input

```
# hdfs dfs -mkdir -p /user/hadoop/input
2024-11-18 08:45:22,751 INFO namenode.FSEditLog: Number of transactions: 4 Total time for transactions(ms): 8 Number of transactions batched in Syncs: 0 Number of syncs: 2 SyncTimes(ms): 9
# hdfs dfs -put $HADOOP_HOME/etc/hadoop/*.xml /user/hadoop/input
2024-11-18 08:46:16,610 INFO hdfs.StateChange: BLOCK* allocate blk_1073741825_1001, replicas=172.17.0.2:9866 for /user/hadoop/input/capacity-scheduler.xml._COPYING_
2024-11-18 08:46:16,632 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
2024-11-18 08:46:16,718 INFO datanode.DataNode: Receiving BP-62516145-172.17.0.2-1731918270958:blk_1073741825_1001 src: /172.17.0.2:35504 dest: /172.17.0.2:9866
2024-11-18 08:46:16,777 INFO DataNode.clienttrace: src: /172.17.0.2:35504, dest: /172.17.0.2:9866, bytes: 8260, op: HDFS_WRITE, cliID: DFSClient_NONMAPREDUCE_1120282429_1, offset: 0, srvID: ec128e29-a84d-42ea-9713-fa921225ea04, blockid: BP-62516145-172.17.0.2-1731918270958:blk_1073741825_1001, duration(ns): 34527359
2024-11-18 08:46:16,777 INFO datanode.DataNode: PacketResponder: BP-62516145-172.17.0.2-1731918270958:blk_1073741825_1001, type=LAST_IN_PIPELINE terminating
2024-11-18 08:46:16,783 INFO namenode.FSNamesystem: BLOCK* blk_1073741825_1001 is COMMITTED but not COMPLETE(numNodes= 0 < minimum = 1) in file /user/hadoop/input/capacity-scheduler.xml._COPYING_
2024-11-18 08:46:17,189 INFO hdfs.StateChange: DIR* completeFile: /user/hadoop/input/capacity-scheduler.xml._COPYING_ is closed by DFSClient_NONMAPREDUCE_1120282429_1
2024-11-18 08:46:17,229 INFO hdfs.StateChange: BLOCK* allocate blk_1073741826_1002, replicas=172.17.0.2:9866 for /user/hadoop/input/core-site.xml._COPYING_
2024-11-18 08:46:17,232 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
2024-11-18 08:46:17,233 INFO datanode.DataNode: Receiving BP-62516145-172.17.0.2-1731918270958:blk_1073741826_1002 src: /172.17.0.2:35506 dest: /172.17.0.2:9866
2024-11-18 08:46:17,237 INFO DataNode.clienttrace: src: /172.17.0.2:35506, dest: /172.17.0.2:9866, bytes: 860, op: HDFS_WRITE, cliID: DFSClient_NONMAPREDUCE_1120282429_1, offset: 0, srvID: ec128e29-a84d-42ea-9713-fa921225ea04, blockid: BP-62516145-172.17.0.2-1731918270958:blk_1073741826_1002, duration(ns): 1771733
2024-11-18 08:46:17,238 INFO datanode.DataNode: PacketResponder: BP-62516145-172.17.0.2-1731918270958:blk_1073741826_1002, type=LAST_IN_PIPELINE terminating
2024-11-18 08:46:17,239 INFO hdfs.StateChange: DIR* completeFile: /user/hadoop/input/core-site.xml._COPYING_ is closed by DFSClient_NONMAPREDUCE_1120282429_1
```

## hadoop jar \$HADOOP\_HOME/share/hadoop/mapreduce/hadoop-mapreduce-examples-\*.jar wordcount /user/hadoop/input /user/hadoop/output

```
# hdfs dfs -put $HADOOP_HOME/etc/hadoop/*.xml /user/hadoop/input
2024-11-18 08:46:16,610 INFO hdfs.StateChange: BLOCK* allocate blk_1073741825_1001, replicas=172.17.0.2:9866 for /user/hadoop/input/capacity-scheduler.xml._COPYING_
2024-11-18 08:46:16,632 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
2024-11-18 08:46:16,718 INFO datanode.DataNode: Receiving BP-62516145-172.17.0.2-1731918270958:blk_1073741825_1001 src: /172.17.0.2:35504 dest: /172.17.0.2:9866
2024-11-18 08:46:16,777 INFO DataNode.clienttrace: src: /172.17.0.2:35504, dest: /172.17.0.2:9866, bytes: 8260, op: HDFS_WRITE, cliID: DFSClient_NONMAPREDUCE_1120282429_1, offset: 0, srvID: ec128e29-a84d-42ea-9713-fa921225ea04, blockid: BP-62516145-172.17.0.2-1731918270958:blk_1073741825_1001, duration(ns): 34527359
2024-11-18 08:46:16,777 INFO datanode.DataNode: PacketResponder: BP-62516145-172.17.0.2-1731918270958:blk_1073741825_1001, type=LAST_IN_PIPELINE terminating
2024-11-18 08:46:16,783 INFO namenode.FSNamesystem: BLOCK* blk_1073741825_1001 is COMMITTED but not COMPLETE(numNodes= 0 < minimum = 1) in file /user/hadoop/input/capacity-scheduler.xml._COPYING_
2024-11-18 08:46:17,189 INFO hdfs.StateChange: DIR* completeFile: /user/hadoop/input/capacity-scheduler.xml._COPYING_ is closed by DFSClient_NONMAPREDUCE_1120282429_1
2024-11-18 08:46:17,229 INFO hdfs.StateChange: BLOCK* allocate blk_1073741826_1002, replicas=172.17.0.2:9866 for /user/hadoop/input/core-site.xml._COPYING_
2024-11-18 08:46:17,232 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
2024-11-18 08:46:17,233 INFO datanode.DataNode: Receiving BP-62516145-172.17.0.2-1731918270958:blk_1073741826_1002 src: /172.17.0.2:35506 dest: /172.17.0.2:9866
2024-11-18 08:46:17,237 INFO DataNode.clienttrace: src: /172.17.0.2:35506, dest: /172.17.0.2:9866, bytes: 860, op: HDFS_WRITE, cliID: DFSClient_NONMAPREDUCE_1120282429_1, offset: 0, srvID: ec128e29-a84d-42ea-9713-fa921225ea04, blockid: BP-62516145-172.17.0.2-1731918270958:blk_1073741826_1002, duration(ns): 1771733
2024-11-18 08:46:17,238 INFO datanode.DataNode: PacketResponder: BP-62516145-172.17.0.2-1731918270958:blk_1073741826_1002, type=LAST_IN_PIPELINE terminating
2024-11-18 08:46:17,239 INFO hdfs.StateChange: DIR* completeFile: /user/hadoop/input/core-site.xml._COPYING_ is closed by DFSClient_NONMAPREDUCE_1120282429_1
2024-11-18 08:46:17,270 INFO hdfs.StateChange: BLOCK* allocate blk_1073741827_1003, replicas=172.17.0.2:9866 for /user/hadoop/input/hadoop-policy.xml._COPYING_
2024-11-18 08:46:17,300 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
2024-11-18 08:46:17,301 INFO datanode.DataNode: Receiving BP-62516145-172.17.0.2-1731918270958:blk_1073741827_1003 src: /172.17.0.2:35512 dest: /172.17.0.2:9866
```

hdfs dfs -cat /user/hadoop/output/part-r-00000

```
# hdfs dfs -cat /user/hadoop/output/part-r-00000
2024-11-18 08:55:19,572 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteHostTrusted = false
"#"      21
"AS"     9
"License");      9
"alice,bob      21
"clumping"      1
(ASF)  1
(root  1
(the  9
-->  18
-1  1
-1,  1
0.0  1
1-MAX_INT.      1
1.  1
1.0.  1
2.0  9
40  2
40+20=60      1
:  2
```