Exp .No : 8 **210701109**

SET UP A SINGLE HADOOP CLUSTER AND SHOW THE PROCESS USING WEB UI

AIM:

To set up a single hadoop cluster and show the process using web UI.

PROCEDURE:

1. **Install Java 8:** Download Java 8 from the link: http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html
    a. Set environmental variables:
        i. User variable:
            - Variable: JAVA_HOME
            - Value: C:/java
        ii. System variable:
            - Variable: PATH
            - Value: C:/java/bin
    b. Check on cmd, see below:

2. **Download Hadoop-3.3.6**: download Hadoop 3.3.6 from the link: http://www.apache.org/dyn/closer.cgi/hadoop/common/hadoop-3.3.6/hadoop-3.3.6.tar.gz
    a. Put extracted Hadoop-3.3.6 files into C drive. Note that do not put these extracted files into Cdrive, where you installed your Windows.
    b. **Download "*hadoop-common-3.3.6-bin-master*"** from the link: https://github.com/amihalik/hadoop-common-3.3.6-bin/tree/master/bin. You will see 11 filesthere. Paste all these files into the "bin" folder of Hadoop-3.3.6.
    c. Create a "data" folder inside Hadoop-3.3.6, and also create two more folders in the "data" folderas "data" and "name."
    d. Create a folder to store temporary data during execution of a project, such as "D:/hadoop/temp."
    e. Create a log folder, such as "D:/hadoop/userlog"
    f. Go to Hadoop-3.3.6 →etc → Hadoop and edit four files:
        i. core-site.xml
        ii. hdfs-site.xml
        iii. mapred-site.xml
        iv. yarn-site.xml

core-site.xml:

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
<configuration>
<property>
   <name>fs.defaultFS</name>
   <value>hdfs://localhost:9000</value>
 </property>
</configuration>
```

hdfs-site.xml:

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
<configuration>
 <property>
   <name>dfs.replication</name>
   <value>1</value>
 </property>
 <property>
   <name>dfs.namenode.name.dir</name>
   <value>file:///C:/hadoop-3.3.6/data/namenode</value>
 </property>
 <property>
   <name>dfs.datanode.data.dir</name>
   <value>file:///C:/hadoop-3.3.6/data/datanode</value>
 </property>
</configuration>
```

mapred-site.xml:

```
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
<configuration>
<property>
   <name>mapreduce.framework.name</name>
   <value>yarn</value>
 </property>
</configuration>
```

yarn-site.xml:

```
<?xml version="1.0"?>
<configuration>
 <property>
   <name>yarn.nodemanager.aux-services</name>
   <value>mapreduce_shuffle</value>
 </property>
</configuration>
```

g. Go to the location: "Hadoop-3.3.6→etc→hadoop," and edit "hadoop-env.cmd" by writingset JAVA_HOME=C:/java/jdk1.8.0_202

h. Set environmental variables: Do: My computer → Properties → Advance system settings →
Advanced → Environmental variables
   i. User variables:
      - Variable: HADOOP_HOME
      - Value: C:/hadoop-3.3.6
   ii. System variable
      - Variable: Path
      - Value: C:/hadoop-3.3.6/bin
        C:/hadoop-3.3.6/sbin
        C:/hadoop-3.3.6/share/hadoop/common/*
        C:/hadoop-3.3.6/share/hadoop/hdfs
        C:/hadoop-3.3.6/share/hadoop/hdfs/lib/*
        C:/hadoop-3.3.6/share/hadoop/hdfs/*
        C:/hadoop-3.3.6/share/hadoop/yarn/lib/*
        C:/hadoop-3.3.6/share/hadoop/yarn/*
        C:/hadoop-3.3.6/share/hadoop/mapreduce/lib/*
        C:/hadoop-3.3.6/share/hadoop/mapreduce/*
        C:/hadoop-3.3.6/share/hadoop/common/lib/*

i. Check on cmd; see below.

```
C:\Windows\System32>hadoop version
Hadoop 3.3.6
Source code repository https://github.com/apache/hadoop.git -r 1be78238728da9266a4f88195058f08fd012bf9c
Compiled by ubuntu on 2023-06-18T08:22Z
Compiled on platform linux-x86_64
Compiled with protoc 3.7.1
From source with checksum 5652179ad55f76cb287d9c633bb53bbd
This command was run using /C:/hadoop-3.3.6/share/hadoop/common/hadoop-common-3.3.6.jar
```

j. **Format name-node**: On cmd go to the location "Hadoop-2.6.0→bin" by writing on cmd "cdhadoop-2.6.0.\bin" and then "hdfs namenode –format"

k. Start Hadoop. Go to the location: "D:\hadoop-2.6.0\sbin." Run the following files as administrator "start-all.cmd".

l. Go to your web browser and search "localhost:9870" to access Hadoop NameNode. For Resource Manager, search "localhost:8088".

```
C:\Windows\System32>hdfs namenode -format
2024-09-03 06:35:07,052 INFO namenode.NameNode: STARTUP_MSG:
/************************************************************
STARTUP_MSG: Starting NameNode
STARTUP_MSG:   host = Nandha/192.168.56.1
STARTUP_MSG:   args = [-format]
STARTUP_MSG:   version = 3.3.6
STARTUP_MSG:   classpath = C:\hadoop-3.3.6\etc\hadoop;C:\hadoop-3.3.6\share\hadoop\common;C:\hadoop-3.3.6\share\hadoop\common\lib\animal-sniffer-annotations-1.17.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\audie
nce-annotations-0.5.0.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\avro-1.7.7.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\checker-qual-2.5.2.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\commons-beanutils-1.9.4.jar
;C:\hadoop-3.3.6\share\hadoop\common\lib\commons-cli-1.2.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\commons-codec-1.15.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\commons-collections-3.2.2.jar;C:\hadoop-3.3.6\s
hare\hadoop\common\lib\commons-compress-1.21.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\commons-configuration2-2.8.0.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\commons-daemon-1.0.13.jar;C:\hadoop-3.3.6\share\h
adoop\common\lib\commons-io-2.8.0.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\commons-lang3-3.12.0.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\commons-logging-1.1.3.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\co
mmons-math3-3.1.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\commons-net-3.9.0.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\commons-text-1.10.0.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\curator-client-5.2.0.ja
r;C:\hadoop-3.3.6\share\hadoop\common\lib\curator-framework-5.2.0.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\curator-recipes-5.2.0.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\dnsjava-2.1.7.jar;C:\hadoop-3.3.6\s
hare\hadoop\common\lib\failureaccess-1.0.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\gson-2.9.0.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\guava-27.0-jre.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\hadoop-annot
ations-3.3.6.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\hadoop-auth-3.3.6.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\hadoop-shaded-guava-1.1.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\hadoop-shaded-protobuf
_3_7-1.1.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\httpclient-4.5.13.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\httpcore-4.4.13.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\j2objc-annotations-1.1.jar;C:\hado
op-3.3.6\share\hadoop\common\lib\jackson-annotations-2.12.7.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jackson-core-2.12.7.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jackson-core-asl-1.9.13.jar;C:\hadoop-3.3.6
\share\hadoop\common\lib\jackson-databind-2.12.7.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jackson-mapper-asl-1.9.13.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jakarta.activation-api-1.2.1.jar;C:\hadoop-3.3
.6\share\hadoop\common\lib\javax.servlet-api-3.1.0.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jaxb-api-2.2.11.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jaxb-impl-2.2.3-1.jar;C:\hadoop-3.3.6\share\hadoop\commo
n\lib\jcip-annotations-1.0-1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jersey-core-1.19.4.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jersey-json-1.20.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jersey-server-
1.19.4.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jersey-servlet-1.19.4.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jettison-1.5.4.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jetty-http-9.4.51.v20230217.jar;C:\
hadoop-3.3.6\share\hadoop\common\lib\jetty-io-9.4.51.v20230217.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jetty-security-9.4.51.v20230217.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jetty-server-9.4.51.v2023021
7.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jetty-servlet-9.4.51.v20230217.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jetty-util-9.4.51.v20230217.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jetty-util-ajax-9.
4.51.v20230217.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jetty-webapp-9.4.51.v20230217.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jetty-xml-9.4.51.v20230217.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jsch-0.
1.55.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jsp-api-2.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jsr305-3.0.2.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\jsr311-api-1.1.1.jar;C:\hadoop-3.3.6\share\hadoop
\common\lib\jul-to-slf4j-1.7.36.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\kerb-admin-1.0.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\kerb-client-1.0.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\kerb-common-
1.0.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\kerb-core-1.0.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\kerb-crypto-1.0.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\kerb-identity-1.0.1.jar;C:\hadoop-3.3.6
\share\hadoop\common\lib\kerb-server-1.0.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\kerb-simplekdc-1.0.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\kerb-util-1.0.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib
\kerby-asn1-1.0.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\kerby-config-1.0.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\kerby-pkix-1.0.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\kerby-util-1.0.1.jar;C:\h
adoop-3.3.6\share\hadoop\common\lib\kerby-xdr-1.0.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\listenablefuture-9999.0-empty-to-avoid-conflict-with-guava.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\metrics-core
-3.2.4.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-all-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-buffer-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-codec-4.1.89.Fina
l.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-codec-dns-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-codec-haproxy-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-codec-htt
p-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-codec-http2-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-codec-memcache-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib
\netty-codec-mqtt-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-codec-redis-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-codec-smtp-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoo
p\common\lib\netty-codec-socks-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-codec-stomp-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-codec-xml-4.1.89.Final.jar;C:\hadoop-3.3.6
\share\hadoop\common\lib\netty-common-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-handler-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-handler-proxy-4.1.89.Final.jar;C:\hadoo
p-3.3.6\share\hadoop\common\lib\netty-handler-ssl-ocsp-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-resolver-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-resolver-dns-4.1.89.F
inal.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-resolver-dns-classes-macos-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-resolver-dns-native-macos-4.1.89.Final-osx-aarch_64.jar;C:\hadoop-
3.3.6\share\hadoop\common\lib\netty-resolver-dns-native-macos-4.1.89.Final-osx-x86_64.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-transport-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-tr
ansport-classes-epoll-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-transport-classes-kqueue-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-transport-native-epoll-4.1.89.Final-li
nux-aarch_64.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-transport-native-epoll-4.1.89.Final-linux-x86_64.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-transport-native-kqueue-4.1.89.Final-osx-aarch_64
.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-transport-native-kqueue-4.1.89.Final-osx-x86_64.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-transport-native-unix-common-4.1.89.Final.jar;C:\hadoop-3.3.6\
share\hadoop\common\lib\netty-transport-rxtx-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-transport-sctp-4.1.89.Final.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\netty-transport-udt-4.1.89.Fina
l.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\nimbus-jose-jwt-9.8.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\paranamer-2.3.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\protobuf-java-2.5.0.jar;C:\hadoop-3.3.6\s
hare\hadoop\common\lib\re2j-1.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\reload4j-1.2.22.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\slf4j-api-1.7.36.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\slf4j-reload4j
-1.7.36.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\snappy-java-1.1.8.2.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\stax2-api-4.2.1.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\token-provider-1.0.1.jar;C:\hadoop-
3.3.6\share\hadoop\common\lib\woodstox-core-5.4.0.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\zookeeper-3.6.3.jar;C:\hadoop-3.3.6\share\hadoop\common\lib\zookeeper-jute-3.6.3.jar;C:\hadoop-3.3.6\share\hadoop\com
mon\hadoop-common-3.3.6-tests.jar;C:\hadoop-3.3.6\share\hadoop\common\hadoop-common-3.3.6.jar;C:\hadoop-3.3.6\share\hadoop\common\hadoop-kms-3.3.6.jar;C:\hadoop-3.3.6\share\hadoop\common\hadoop-nfs-3.3.6.jar;C:\
hadoop-3.3.6\share\hadoop\common\hadoop-registry-3.3.6.jar;C:\hadoop-3.3.6\share\hadoop\hdfs;C:\hadoop-3.3.6\share\hadoop\hdfs\lib\animal-sniffer-annotations-1.17.jar;C:\hadoop-3.3.6\share\hadoop\hdfs\lib\audien
ce-annotations-0.5.0.jar;C:\hadoop-3.3.6\share\hadoop\hdfs\lib\avro-1.7.7.jar;C:\hadoop-3.3.6\share\hadoop\hdfs\lib\checker-qual-2.5.2.jar;C:\hadoop-3.3.6\share\hadoop\hdfs\lib\commons-beanutils-1.9.4.jar;C:\had
```

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19045.4780]
(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>start-all.cmd
This script is Deprecated. Instead use start-dfs.cmd and start-yarn.cmd
starting yarn daemons

C:\WINDOWS\system32>jps
11104 Jps
12868 DataNode
11288 ResourceManager
12456 NodeManager
5596 NameNode

C:\WINDOWS\system32>
```

Apache Hadoop Distribution - hadoop namenode

```
16/05/22 12:43:29 INFO blockmanagement.CacheRepli
16/05/22 12:43:29 INFO blockmanagement.CacheRepli
s).
16/05/22 12:43:33 INFO namenode.FSNamesystem: the
16/05/22 12:43:37 INFO namenode.FSNamesystem: the
16/05/22 12:43:59 INFO blockmanagement.CacheRepli
16/05/22 12:43:59 INFO blockmanagement.CacheRepli
s).
16/05/22 12:44:29 INFO blockmanagement.CacheReplie
16/05/22 12:44:29 INFO blockmanagement.CacheRepli
s).
16/05/22 12:44:59 INFO blockmanagement.CacheRepli
16/05/22 12:44:59 INFO blockmanagement.CacheReplisec
).
```

Apache Hadoop Distribution - hadoop datanode

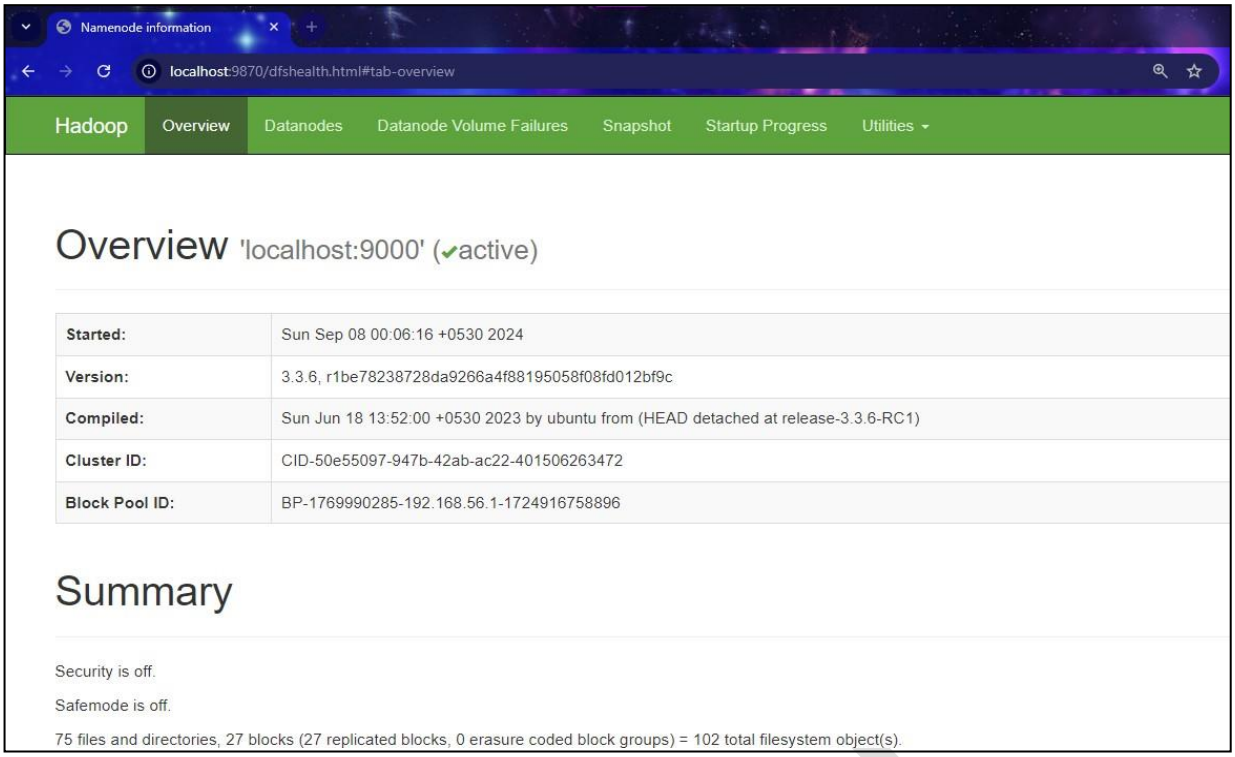
```
16/05/22 12:41:01 INFO impl.FsDatasetImpl: Total time to scan all replicas for block pool BP-99127786-132.72.225.79-1460
371444670: 592ms
                                           16/05/22 12:41:01 INFO impl.FsDatasetImpl: Adding replicas to map for block pool BP-99127786-132.72.225.79-1460371444670
on volume C:\hadoop-2.6.0\data\data\current...
16/05/22 12:41:01 INFO impl.FsDatasetImpl: Time to add replicas to map for block pool BP-99127786-132.72.225.79-14603714
44670 on volume C:\hadoop-2.6.0\data\data\current: 224ms
16/05/22 12:41:01 INFO impl.FsDatasetImpl: Total time to add all replicas to map: 246ms
                                           16/05/22 12:41:01 INFO datanode.DataNode: Block pool BP-99127786-132.72.225.79-1460371444670 (Datanode Uuid null) servic
e to localhost/127.0.0.1:50071 beginning handshake with NN
16/05/22 12:41:01 INFO datanode.DataNode: Block pool Block pool BP-99127786-132.72.225.79-1460371444670 (Datanode Uuid n
ull) service to localhost/127.0.0.1:50071 successfully registered with NN
16/05/22 12:41:01 INFO datanode.DataNode: For namenode localhost/127.0.0.1:50071 using DELETEREPORT_INTERVAL of 300000 m
sec  BLOCKREPORT_INTERVAL of 21600000msec CACHEREPORT_INTERVAL of 10000msec Initial delay: 0msec; heartBeatInterval=3000
```

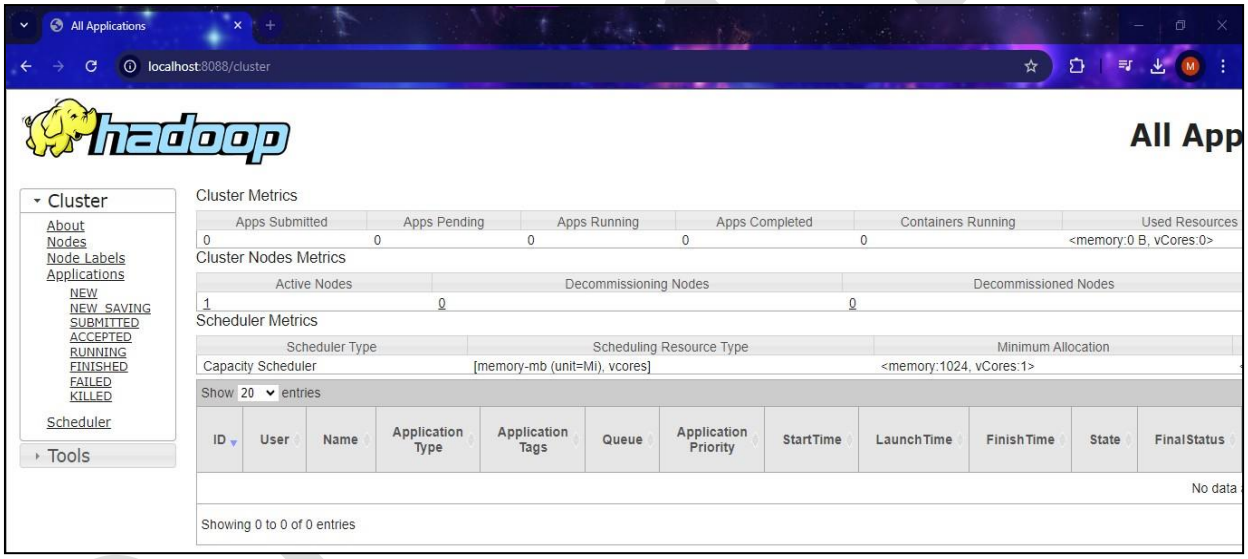
Apache Hadoop Distribution - yarn resourcemanager

```
16/05/22 12:42:08 INFO delegation.AbstractDelegati
elegation tokens
16/05/22 12:42:08 INFO delegation.AbstractDelegati
elegation tokens
16/05/22 12:42:08 INFO delegation.AbstractDelegati
elegation tokens
16/05/22 12:42:09 INFO delegation.AbstractDelegati
, tokenRemoverScanInterval=60 min(s)
16/05/22 12:42:09 INFO mortbay.log: Started HttpSe
16/05/22 12:42:09 INFO webapp.WebApps: Web app /cl
16/05/22 12:42:09 INFO delegation.AbstractDelegati
, tokenRemoverScanInterval=60 min(s)
16/05/22 12:42:09 INFO delegation.AbstractDelegati
elegation tokens
16/05/22 12:42:09 INFO delegation.AbstractDelegati
elegation tokens
16/05/22 12:42:11 INFO webapp.WebApps: Registered
16/05/22 12:42:11 INFO ipc.CallQueueManager: Using
16/05/22 12:42:11 INFO pb.RpcServerFactoryPBImpl:
istrationProtocolPB to the server
16/05/22 12:42:11 INFO ipc.Server: Starting Socket
16/05/22 12:42:11 INFO ipc.Server: IPC Server list
16/05/22 12:42:11 INFO ipc.Server: IPC Server Resp
16/05/22 12:42:12 INFO util.RackResolver: Resolved
16/05/22 12:42:12 INFO resourcemanager.ResourceTra
t: 8042) registered with capability: <memory:8192,
16/05/22 12:42:12 INFO rmnode.RMNodeImpl: 132.72.2
16/05/22 12:42:12 INFO capacity.CapacityScheduler:
8>
```

Apache Hadoop Distribution - yarn nodemanager

```
f4jLog
16/05/22 12:42:09 INFO http.HttpRequestLog: Http request log for http.requests.nodemanager is not defined
16/05/22 12:42:09 INFO http.HttpServer2: Added global filter 'safety' (class=org.apache.hadoop.http.HttpServer2$QuotingI
nputFilter)
16/05/22 12:42:09 INFO http.HttpServer2: Added filter static_user_filter (class=org.apache.hadoop.http.lib.StaticUserWeb
filter$StaticUserFilter) to context node
16/05/22 12:42:09 INFO http.HttpServer2: Added filter static_user_filter (class=org.apache.hadoop.http.lib.StaticUserWeb
Filter$StaticUserFilter) to context static
16/05/22 12:42:09 INFO http.HttpServer2: Added filter static_user_filter (class=org.apache.hadoop.http.lib.StaticUserWeb
filter$StaticUserFilter) to context logs
16/05/22 12:42:09 INFO http.HttpServer2: adding path spec: /node/*
16/05/22 12:42:09 INFO http.HttpServer2: adding path spec: /ws/*
16/05/22 12:42:09 INFO http.HttpServer2: Jetty bound to port 8042
16/05/22 12:42:09 INFO mortbay.log: jetty-6.1.26
16/05/22 12:42:09 INFO mortbay.log: Extract jar:file:/D:/hadoop-2.6.0/share/hadoop/yarn/hadoop-yarn-common-2.6.0.jar!/we
bapps/node to C:\Users\shantanu\AppData\Local\Temp\Jetty_0_0_0_0_8042_node____19tj0x\webapp
16/05/22 12:42:10 INFO mortbay.log: Started HttpServer2$SelectChannelConnectorWithSafeStartup@0.0.0.0:8042
16/05/22 12:42:10 INFO webapp.WebApps: Web app /node started at 8042
16/05/22 12:42:12 INFO webapp.WebApps: Registered webapp guice modules
16/05/22 12:42:12 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8031
16/05/22 12:42:12 INFO nodemanager.NodeStatusUpdaterImpl: Sending out 0 NM container statuses: []
16/05/22 12:42:12 INFO nodemanager.NodeStatusUpdaterImpl: Registering with RM using containers :[]
16/05/22 12:42:12 INFO security.NMContainerTokenSecretManager: Rolling master-key for container-tokens, got key with id
-215775033
16/05/22 12:42:12 INFO security.NMTokenSecretManagerInNM: Rolling master-key for container-tokens, got key with id 20514
00752
16/05/22 12:42:12 INFO nodemanager.NodeStatusUpdaterImpl: Registered with ResourceManager as 132.72.225.79:57060 with to
tal resource of <memory:8192, vCores:8>
16/05/22 12:42:12 INFO nodemanager.NodeStatusUpdaterImpl: Notifying ContainerManager to unblock new container-requests
```





RESULT:

The set up of a single hadoop cluster and show the process using web UI on Windows system have been successfully completed.