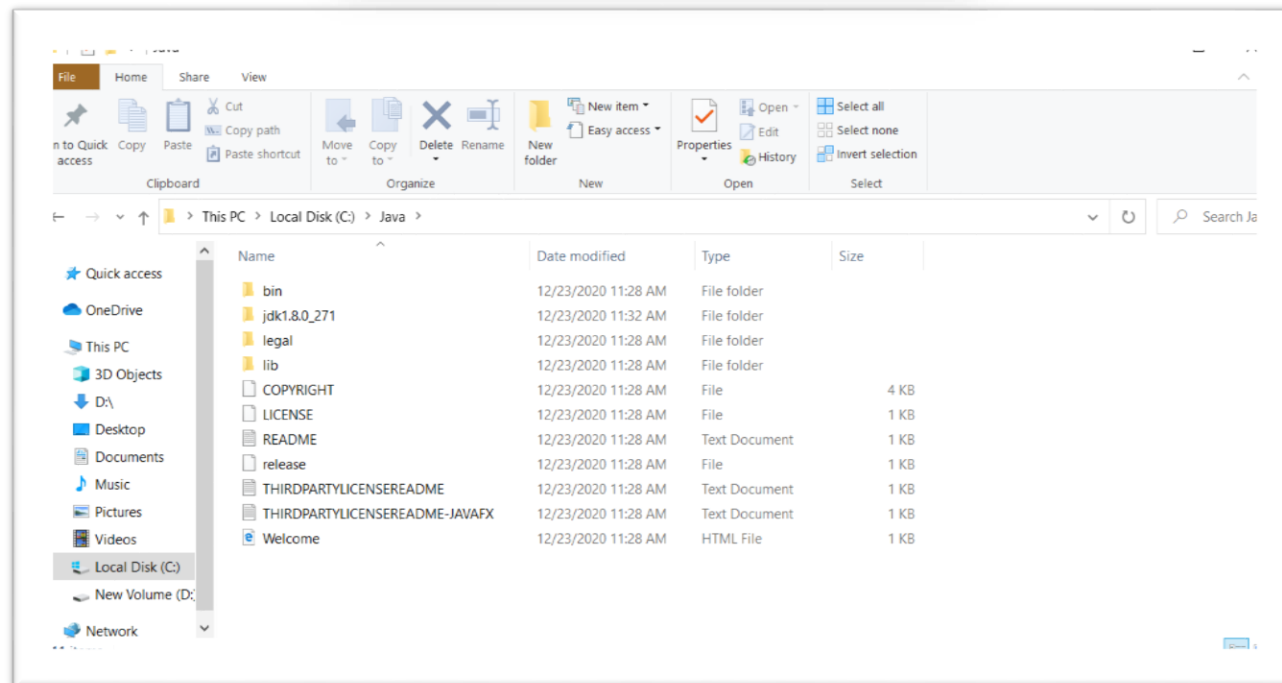
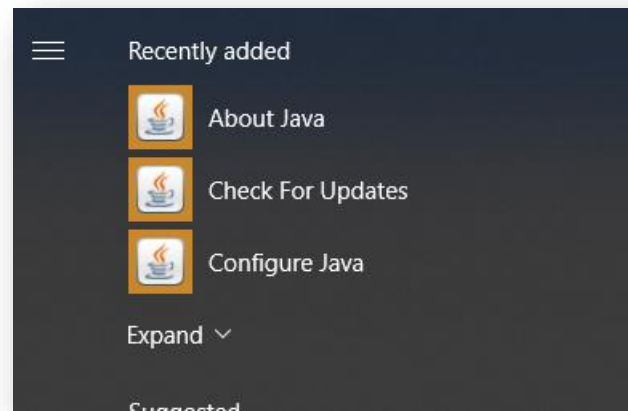
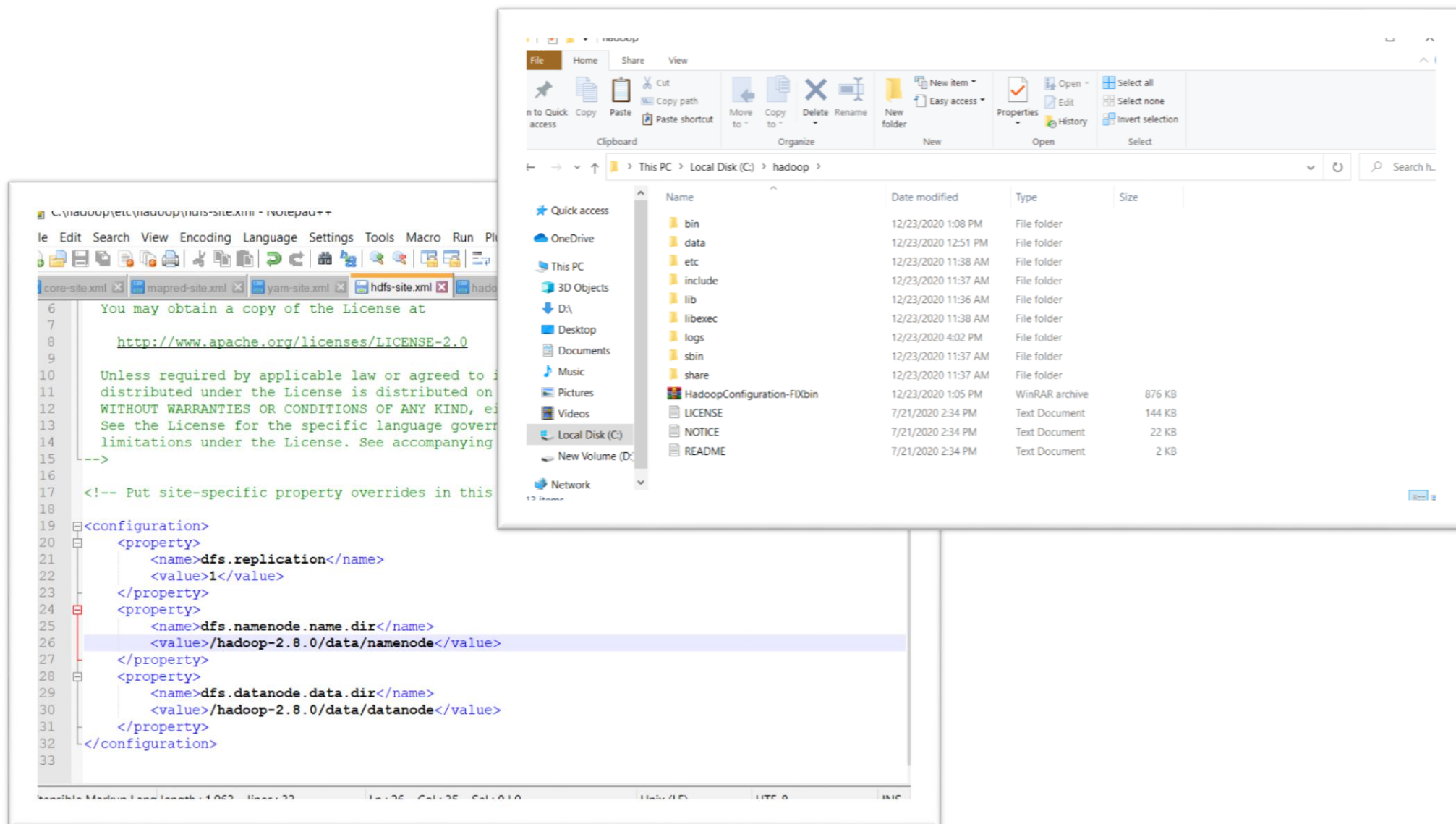


INSTALLING HADOOP AND HOW HDFS ARCHITECTURE (NameNode and DataNode) WORKS.

First I Installed Java



And then I Installed Hadoop (Configuring codes in some of Hadoop XML files: core,mapred,yarn,hdfs,Hadoop env. Codes source from Web) and I created Name Node and Data Node in data Folder and in HDFS XML



CMD CONFIGURE

Checking the Java if it's already installed (Checking the Java Version)

```
Command Prompt
Microsoft Windows [Version 10.0.18363.1256]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\W-book>javac
Usage: javac <options> <source files>
where possible options include:
  -g               Generate all debugging info
  -g:none          Generate no debugging info
  -g:{lines,vars,source} Generate only some debugging info
  -nowarn          Generate no warnings
  -verbose         Output messages about what the compiler is doing
  -deprecation     Output source locations where deprecated APIs are used
  -classpath <path> Specify where to find user class files and annotation processors
  -cp <path>       Specify where to find user class files and annotation processors
  -sourcepath <path> Specify where to find input source files
  -bootclasspath <path> Override location of bootstrap class files
  -extdirs <dirs>   Override location of installed extensions
  -endorseddirs <dirs> Override location of endorsed standards path
  -proc:{none,only} Control whether annotation processing and/or compilation is done.
  -processor <class1>[,<class2>,<class3>...] Names of the annotation processors to run; bypasses default discovery process
  -processorpath <path> Specify where to find annotation processors
  -parameters     Generate metadata for reflection on method parameters
  -d <directory>   Specify where to place generated class files
  -s <directory>   Specify where to place generated source files
  -h <directory>   Specify where to place generated native header files
  -implicit:{none,class} Specify whether or not to generate class files for implicitly referenced files
  -encoding <encoding> Specify character encoding used by source files
  -source <release> Provide source compatibility with specified release
  -target <release> Generate class files for specific VM version
  -profile <profile> Check that API used is available in the specified profile
  -version         Version information
  -help            Print a synopsis of standard options
  -Akey[=value]    Options to pass to annotation processors
  -X              Print a synopsis of nonstandard options
  -J<flag>         Pass <flag> directly to the runtime system
  -Werror          Terminate compilation if warnings occur
  @<filename>      Read options and filenames from file

C:\Users\W-book>java -version
java version "1.8.0_271"
Java(TM) SE Runtime Environment (build 1.8.0_271-b09)
Java HotSpot(TM) 64-Bit Server VM (build 25.271-b09, mixed mode)

C:\Users\W-book>
```


Configuring and Creating Namenode (by typing “hdfs name node -format”)

C:\WINDOWS\system32\cmd.exe

Microsoft Windows [Version 10.0.18363.1256]

(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\W-book>hdfs namenode -format

2020-12-23 13:09:40,645 INFO namenode.NameNode: STARTUP_MSG:
/*****

STARTUP_MSG: Starting NameNode

STARTUP_MSG: host = DESKTOP-LURF93L/192.168.8.100

STARTUP_MSG: args = [-format]

STARTUP_MSG: version = 3.1.4

STARTUP_MSG: classpath = C:\hadoop\etc\hadoop;C:\hadoop\share\hadoop

s-smart-1.2.jar;C:\hadoop\share\hadoop\common\lib\animal-sniffer-anno

asm-5.0.4.jar;C:\hadoop\share\hadoop\common\lib\audience-annotations-1

7.7.jar;C:\hadoop\share\hadoop\common\lib\checker-qual-2.5.2.jar;C:\h

.4.jar;C:\hadoop\share\hadoop\common\lib\commons-cli-1.2.jar;C:\hadoop

\hadoop\share\hadoop\common\lib\commons-collections-3.2.2.jar;C:\hadoop

r;C:\hadoop\share\hadoop\common\lib\commons-configuration2-2.1.1.jar;

r;C:\hadoop\share\hadoop\common\lib\commons-lang-2.6.jar;C:\hadoop\sh

op\share\hadoop\common\lib\commons-logging-1.1.3.jar;C:\hadoop\share\

\share\hadoop\common\lib\commons-net-3.6.jar;C:\hadoop\share\hadoop\c

\hadoop\common\lib\curator-framework-2.13.0.jar;C:\hadoop\share\hadoop

hare\hadoop\common\lib\error_prone_annotations-2.2.0.jar;C:\hadoop\sh

op\share\hadoop\common\lib\gson-2.2.4.jar;C:\hadoop\share\hadoop\comm

mon\lib\hadoop-annotations-3.1.4.jar;C:\hadoop\share\hadoop\common\l

mon\lib\htrace-core4-4.1.0-incubating.jar;C:\hadoop\share\hadoop\comm

mon\lib\httpcore-4.4.4.jar;C:\hadoop\share\hadoop\common\lib\j2obj

\lib\jackson-annotations-2.9.10.jar;C:\hadoop\share\hadoop\common\lib

\lib\jackson-core-asl-1.9.13.jar;C:\hadoop\share\hadoop\common\lib

op\common\lib\jackson-jaxrs-1.9.13.jar;C:\hadoop\share\hadoop\common

\hadoop\common\lib\jackson-xc-1.9.13.jar;C:\hadoop\share\hadoop\common

op\common\lib\jaxb-api-2.2.11.jar;C:\hadoop\share\hadoop\common\lib

Apache Hadoop Distribution - hadoop namenode

STARTUP_MSG: java = 1.8.0_271

2020-12-23 16:06:45,316 INFO namenode.NameNode: createNameNode []

2020-12-23 16:06:45,921 INFO impl.MetricsConfig: loaded properties from hadoop-metrics2.properties

2020-12-23 16:06:46,356 INFO impl.MetricsSystemImpl: Scheduled Metric snapshot period at 10 second(s).

2020-12-23 16:06:46,372 INFO impl.MetricsSystemImpl: NameNode metrics system started

2020-12-23 16:06:46,758 INFO namenode.NameNodeUtils: fs.defaultFS is hdfs://localhost:9000

2020-12-23 16:06:46,767 INFO namenode.NameNode: Clients should use localhost:9000 to access this namenode/service.

2020-12-23 16:06:47,124 INFO util.JvmPauseMonitor: Starting JVM pause monitor

2020-12-23 16:06:47,190 INFO hdfs.DFSUtil: Starting Web-server for hdfs at: http://0.0.0.0:9870

2020-12-23 16:06:47,291 INFO util.log: Logging initialized @4131ms to org.eclipse.jetty.util.log.Slf4jLog

2020-12-23 16:06:47,636 INFO server.AuthenticationFilter: Unable to initialize FileSignerSecretProvider, falling back to use random secrets.

2020-12-23 16:06:48,040 INFO http.HttpRequestLog: Http request log for http.requests.namenode is not defined

2020-12-23 16:06:48,068 INFO http.HttpServer2: Added global filter 'safety' (class=org.apache.hadoop.http.HttpServer2\$QuotingInputFilter)

2020-12-23 16:06:48,072 INFO http.HttpServer2: Added filter static_user_filter (class=org.apache.hadoop.http.lib.StaticUserWebFilter\$StaticUserFilter) to context hdfs

2020-12-23 16:06:48,074 INFO http.HttpServer2: Added filter static_user_filter (class=org.apache.hadoop.http.lib.StaticUserWebFilter\$StaticUserFilter) to context logs

2020-12-23 16:06:48,075 INFO http.HttpServer2: Added filter static_user_filter (class=org.apache.hadoop.http.lib.StaticUserWebFilter\$StaticUserFilter) to context static

2020-12-23 16:06:48,171 INFO http.HttpServer2: Added filter 'org.apache.hadoop.hdfs.web.AuthFilter' (class=org.apache.hadoop.hdfs.web.AuthFilter)

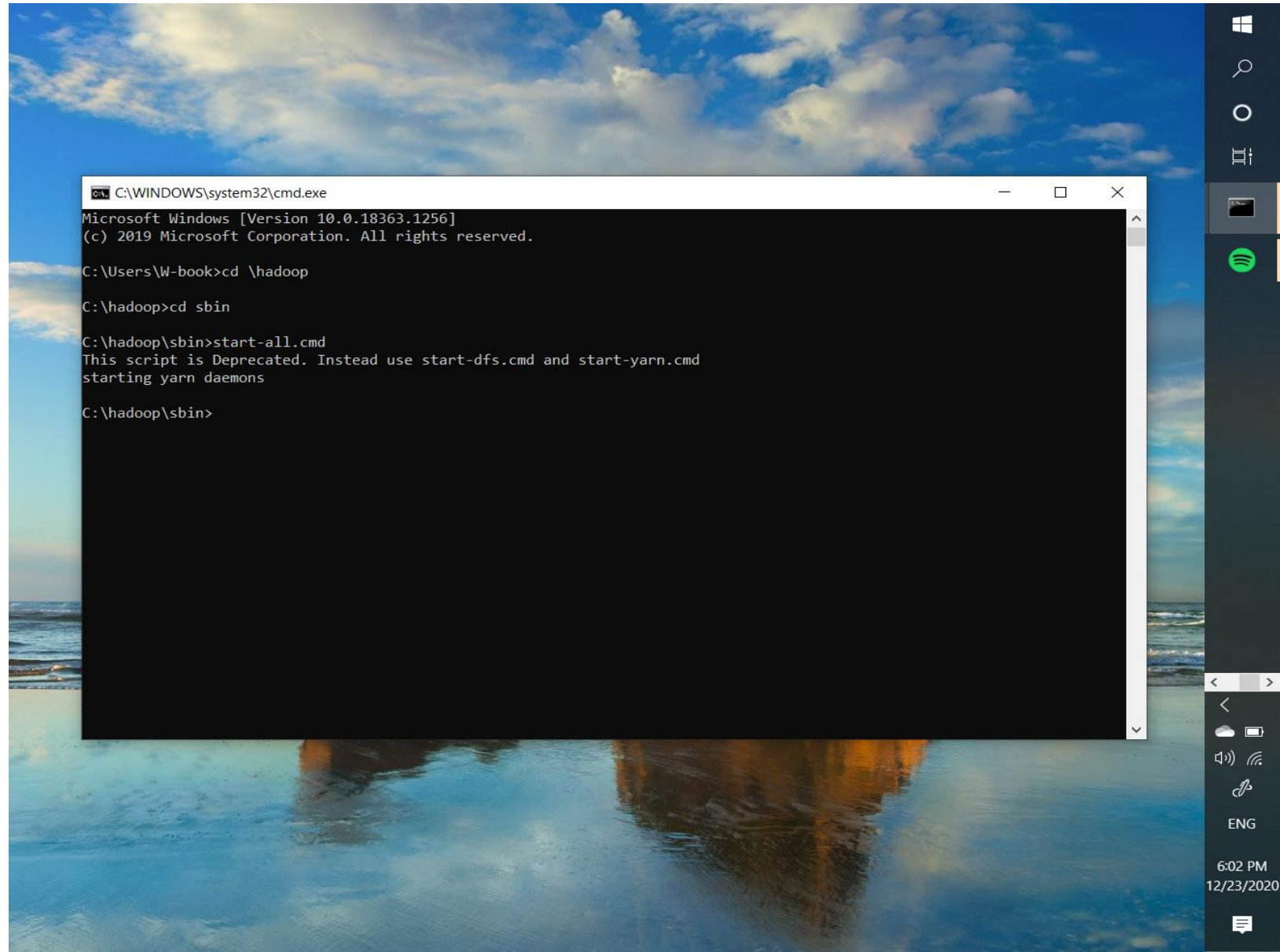
2020-12-23 16:06:48,171 INFO http.HttpServer2: addJerseyResourcePackage: packageName=org.apache.hadoop.hdfs.server.namenode.web.resources;org.apache.hadoop.hdfs.web.resources, pathSpec=/webhdfs/v1/*

2020-12-23 16:06:48,209 INFO http.HttpServer2: Jetty bound to port 9870

2020-12-23 16:06:48,213 INFO server.Server: jetty-9.4.20.v20190813; built: 2019-08-13T21:28:18.144Z; git: 84700530e645e812b336747464d6fbbf370c9a20; jvm 1.8.0_271-b09

2020-12-23 16:06:48,282 INFO server.session: DefaultSessionIdManager workerName=node0

After creating Name Node starting all cmd in Hadoop sbin by typing “start-all.cmd”



To show and start the Data Node

Apache Hadoop Distribution

DEPRECATED: Use of this script to execute hdfs command is deprecated. Instead use the hdfs command for it.

2020-12-23 13:20:14,063 INFO datanode.DataNode: STARTUP_MSG: /*****

STARTUP_MSG: Starting DataNode

STARTUP_MSG: host = DESKTOP-LURF93L/192.168.8.100

STARTUP_MSG: args = []

STARTUP_MSG: version = 3.1.4

STARTUP_MSG: classpath = C:\hadoop\etc\hadoop;C:\hadoop\share

essors-smart-1.2.jar;C:\hadoop\share\hadoop\common\lib\animal-s

common\lib\asm-5.0.4.jar;C:\hadoop\share\hadoop\common\lib\audi

mon\lib\avro-1.7.7.jar;C:\hadoop\share\hadoop\common\lib\checke

commons-beanutils-1.9.4.jar;C:\hadoop\share\hadoop\common\lib\co

commons-codec-1.11.jar;C:\hadoop\share\hadoop\common\lib\commo

n\lib\commons-compress-1.19.jar;C:\hadoop\share\hadoop\commo

hadoop\common\lib\commons-io-2.5.jar;C:\hadoop\share\hadoop\com

mon\lib\commons-lang3-3.4.jar;C:\hadoop\share\hadoop\commo

\common\lib\commons-math3-3.1.1.jar;C:\hadoop\share\hadoop\comm

mon\lib\curator-client-2.13.0.jar;C:\hadoop\share\hadoop\comm

hadoop\common\lib\curator-recipes-2.13.0.jar;C:\hadoop\share\had

hadoop\share\hadoop\common\lib\failureaccess-1.0.jar;C:\hadoop\

share\hadoop\common\lib\guava-27.0-jre.jar;C:\hadoop\share\hadoop\

are\hadoop\common\lib\hadoop-auth-3.1.4.jar;C:\hadoop\share\had

hadoop\share\hadoop\common\lib\httpclient-4.5.2.jar;C:\hadoop\sh

share\hadoop\common\lib\j2objc-annotations-1.1.jar;C:\hadoop\sh

;C:\hadoop\share\hadoop\common\lib\jackson-core-2.9.10.jar;C:\h

3.jar;C:\hadoop\share\hadoop\common\lib\jackson-databind-2.9.10

rs-1.9.13.jar;C:\hadoop\share\hadoop\common\lib\jackson-mapper

kson-xc-1.9.13.jar;C:\hadoop\share\hadoop\common\lib\javax.serv

jaxb-api-2.2.11.jar;C:\hadoop\share\hadoop\common\lib\jaxb-impl

annotations-1.0-1.jar;C:\hadoop\share\hadoop\common\lib\jersey

ey-json-1.19.jar;C:\hadoop\share\hadoop\common\lib\jersey-serve

Administrator: Apache Hadoop Distribution

STARTUP_MSG: java = 1.8.0_271

2020-12-23 16:06:47,273 INFO checker.ThrottledAsyncChecker: Scheduling a check for [DISK]file:/C:/hadoop-2.8.0/data/datanode

2020-12-23 16:06:47,390 WARN checker.StorageLocationChecker: Exception checking StorageLocation [DISK]file:/C:/hadoop-2.8.0/data/datanode

java.lang.UnsatisfiedLinkError: org.apache.hadoop.io.nativeio.NativeIO\$POSIX.stat(Ljava/lang/String;)Jorg/apache/hadoop/io/nativeio/NativeIO\$POSIX\$Stat;

at org.apache.hadoop.io.nativeio.NativeIO\$POSIX.stat(Native Method)

at org.apache.hadoop.io.nativeio.NativeIO\$POSIX.getStat(NativeIO.java:603)

at org.apache.hadoop.fs.RawLocalFileSystem\$DeprecatedRawLocalFileStatus.loadPermissionInfoByNativeIO(RawLocalFileSystem.java:796)

at org.apache.hadoop.fs.RawLocalFileSystem\$DeprecatedRawLocalFileStatus.loadPermissionInfo(RawLocalFileSystem.java:710)

at org.apache.hadoop.fs.RawLocalFileSystem\$DeprecatedRawLocalFileStatus.getPermission(RawLocalFileSystem.java:678)

at org.apache.hadoop.util.DiskChecker.mkdircWithExistsAndPermissionCheck(DiskChecker.java:233)

at org.apache.hadoop.util.DiskChecker.checkDirInternal(DiskChecker.java:141)

at org.apache.hadoop.util.DiskChecker.checkDir(DiskChecker.java:116)

at org.apache.hadoop.hdfs.server.datanode.StorageLocation.check(StorageLocation.java:239)

at org.apache.hadoop.hdfs.server.datanode.StorageLocation.check(StorageLocation.java:52)

at org.apache.hadoop.hdfs.server.datanode.checker.ThrottledAsyncChecker\$1.call(ThrottledAsyncChecker.java:142)

at com.google.common.util.concurrent.TrustedListenableFutureTask\$TrustedFutureInterruptibleTask.runInterruptibly(TrustedListenableFutureTask.java:125)

at com.google.common.util.concurrent.InterruptibleTask.run(InterruptibleTask.java:57)

at com.google.common.util.concurrent.TrustedListenableFutureTask.run(TrustedListenableFutureTask.java:78)

at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1149)

at java.util.concurrent.ThreadPoolExecutor\$Worker.run(ThreadPoolExecutor.java:624)

at java.lang.Thread.run(Thread.java:748)

2020-12-23 16:06:47,396 ERROR datanode.DataNode: Exception in secureMain

org.apache.hadoop.util.DiskChecker\$DiskErrorException: Too many failed volumes - current valid volumes: 0, volumes configured: 1, volumes failed: 1, volume failures tolerated: 0



Resource Manager

Apache Hadoop Distribution

```
2020-12-23 13:20:13,992 INFO resourcemanager.ResourceManager
/*****
STARTUP_MSG: Starting ResourceManager
STARTUP_MSG: host = DESKTOP-LURF93L/192.168.8.100
STARTUP_MSG: args = []
STARTUP_MSG: version = 3.1.4
STARTUP_MSG: classpath = C:\hadoop\etc\hadoop;C:\hadoop\et
C:\hadoop\share\hadoop\common\lib\accessors-smart-1.2.jar;C:
.17.jar;C:\hadoop\share\hadoop\common\lib\asm-5.0.4.jar;C:\h
;C:\hadoop\share\hadoop\common\lib\avro-1.7.7.jar;C:\hadoop\
re\hadoop\common\lib\commons-beanutils-1.9.4.jar;C:\hadoop\s
adoop\common\lib\commons-codec-1.11.jar;C:\hadoop\share\hado
hadoop\common\lib\commons-compress-1.19.jar;C:\hadoop\share\
\share\hadoop\common\lib\commons-io-2.5.jar;C:\hadoop\share\
p\common\lib\commons-lang3-3.4.jar;C:\hadoop\share\hadoop\co
common\lib\commons-math3-3.1.1.jar;C:\hadoop\share\hadoop\comm
\curator-client-2.13.0.jar;C:\hadoop\share\hadoop\common\lib
lib\curator-recipes-2.13.0.jar;C:\hadoop\share\hadoop\common
p\common\lib\failureaccess-1.0.jar;C:\hadoop\share\hadoop\co
ava-27.0-jre.jar;C:\hadoop\share\hadoop\common\lib\hadoop-an
-auth-3.1.4.jar;C:\hadoop\share\hadoop\common\lib\htrace-con
tpclient-4.5.2.jar;C:\hadoop\share\hadoop\common\lib\httpcor
ions-1.1.jar;C:\hadoop\share\hadoop\common\lib\jackson-annot
core-2.9.10.jar;C:\hadoop\share\hadoop\common\lib\jackson-co
databind-2.9.10.4.jar;C:\hadoop\share\hadoop\common\lib\jack
on-mapper-as1-1.9.13.jar;C:\hadoop\share\hadoop\common\lib\j
.servlet-api-3.1.0.jar;C:\hadoop\share\hadoop\common\lib\jax
-2.2.3-1.jar;C:\hadoop\share\hadoop\common\lib\jcip-annotati
1.19.jar;C:\hadoop\share\hadoop\common\lib\jersey-json-1.19.
;C:\hadoop\share\hadoop\common\lib\jersey-servlet-1.19.jar;C
```

Administrator: Apache Hadoop Distribution

```
STARTUP_MSG: java = 1.8.0_271
/*****
2020-12-23 16:06:47,109 INFO conf.Configuration: found resource core-site.xml at file:/C:/hadoop/etc/hadoop/core-site.xml
2020-12-23 16:06:47,267 INFO conf.Configuration: resource-types.xml not found
2020-12-23 16:06:47,287 INFO resource.ResourceUtils: Unable to find 'resource-types.xml'.
2020-12-23 16:06:47,430 INFO conf.Configuration: found resource yarn-site.xml at file:/C:/hadoop/etc/hadoop/yarn-site.xml
2020-12-23 16:06:47,503 INFO event.AsyncDispatcher: Registering class org.apache.hadoop.yarn.server.resourcemanager.RMFatalEventType for class org.apache.hadoop.yarn.server.resourcemanager.ResourceManager$RMFatalEventDispatcher
2020-12-23 16:06:48,204 INFO security.NMTokenSecretManagerInRM: NMTokenKeyRollingInterval: 86400000ms and NMTokenKeyActivationDelay: 900000ms
2020-12-23 16:06:48,215 INFO security.RMContainerTokenSecretManager: ContainerTokenKeyRollingInterval: 86400000ms and ContainerTokenKeyActivationDelay: 900000ms
2020-12-23 16:06:48,230 INFO security.AMRMTTokenSecretManager: AMRMTTokenKeyRollingInterval: 86400000ms and AMRMTTokenKeyActivationDelay: 900000ms
2020-12-23 16:06:48,342 INFO event.AsyncDispatcher: Registering class org.apache.hadoop.yarn.server.resourcemanager.recovery.RMStateStoreEventType for class org.apache.hadoop.yarn.server.resourcemanager.recovery.RMStateStore$ForwardingEventHandler
2020-12-23 16:06:48,357 INFO event.AsyncDispatcher: Registering class org.apache.hadoop.yarn.server.resourcemanager.NodeListManagerEventType for class org.apache.hadoop.yarn.server.resourcemanager.NodesListManager
2020-12-23 16:06:48,358 INFO resourcemanager.ResourceManager: Using Scheduler: org.apache.hadoop.yarn.server.resourcemanager.scheduler.capacity.CapacityScheduler
2020-12-23 16:06:48,436 INFO event.AsyncDispatcher: Registering class org.apache.hadoop.yarn.server.resourcemanager.scheduler.event.SchedulerEventType for class org.apache.hadoop.yarn.event.EventDispatcher
2020-12-23 16:06:48,439 INFO event.AsyncDispatcher: Registering class org.apache.hadoop.yarn.server.resourcemanager.rmap.p.RMAppEventType for class org.apache.hadoop.yarn.server.resourcemanager.ResourceManager$ApplicationEventDispatcher
2020-12-23 16:06:48,443 INFO event.AsyncDispatcher: Registering class org.apache.hadoop.yarn.server.resourcemanager.rmap.p.attempt.RMAppAttemptEventType for class org.apache.hadoop.yarn.server.resourcemanager.ResourceManager$ApplicationAttemptEventDispatcher
```

ENG

4:25 PM
12/23/2020

The image contains two screenshots of a Windows desktop environment. The left screenshot shows a command prompt window titled 'Select Apache Hadoop Distribution'. It displays the output of the 'STARTUP_M' command, which lists the classpath for the Hadoop distribution. The classpath includes various JAR files located in the 'C:\hadoop\share\hadoop\common\lib' directory, such as 'accessors-smart-1.2.jar', 'asm-5.0.4.jar', 'avro-1.7.7.jar', 'commons-beanutils-1.9.4.jar', 'commons-codec-1.11.jar', 'commons-compress-1.19.jar', 'commons-io-2.5.jar', 'commons-lang3-3.4.jar', 'commons-math3-3.1.1.jar', 'curator-client-2.13.0.jar', 'curator-recipes-2.13.0.jar', 'failureaccess-1.0.jar', 'jre-27.0-jre.jar', 'htrace-core4-tpclient-4.5.2.jar', 'httpcore-4.ions-1.1.jar', 'jackson-annotati-core-2.9.10.jar', 'jackson-core-databind-2.9.10.4.jar', 'jackson-mapper-asl-1.9.13.jar', 'jackson-servlet-api-3.1.0.jar', 'jackson-jaxb-a-2.2.3-1.jar', 'jcip-annotations-1.19.jar', and 'jersey-json-1.19.jar'. The right screenshot shows a command prompt window titled 'Administrator: Apache Hadoop Distribution'. It displays the output of the 'STARTUP_M' command, which lists the classpath for the Hadoop distribution. The classpath includes various JAR files located in the 'C:\hadoop\share\hadoop\common\lib' directory, such as 'accessors-smart-1.2.jar', 'asm-5.0.4.jar', 'avro-1.7.7.jar', 'commons-beanutils-1.9.4.jar', 'commons-codec-1.11.jar', 'commons-compress-1.19.jar', 'commons-io-2.5.jar', 'commons-lang3-3.4.jar', 'commons-math3-3.1.1.jar', 'curator-client-2.13.0.jar', 'curator-recipes-2.13.0.jar', 'failureaccess-1.0.jar', 'jre-27.0-jre.jar', 'htrace-core4-tpclient-4.5.2.jar', 'httpcore-4.ions-1.1.jar', 'jackson-annotati-core-2.9.10.jar', 'jackson-core-databind-2.9.10.4.jar', 'jackson-mapper-asl-1.9.13.jar', 'jackson-servlet-api-3.1.0.jar', 'jackson-jaxb-a-2.2.3-1.jar', 'jcip-annotations-1.19.jar', and 'jersey-json-1.19.jar'. The logs also show the output of the 'STARTUP_M' command, which lists the classpath for the Hadoop distribution. The classpath includes various JAR files located in the 'C:\hadoop\share\hadoop\common\lib' directory, such as 'accessors-smart-1.2.jar', 'asm-5.0.4.jar', 'avro-1.7.7.jar', 'commons-beanutils-1.9.4.jar', 'commons-codec-1.11.jar', 'commons-compress-1.19.jar', 'commons-io-2.5.jar', 'commons-lang3-3.4.jar', 'commons-math3-3.1.1.jar', 'curator-client-2.13.0.jar', 'curator-recipes-2.13.0.jar', 'failureaccess-1.0.jar', 'jre-27.0-jre.jar', 'htrace-core4-tpclient-4.5.2.jar', 'httpcore-4.ions-1.1.jar', 'jackson-annotati-core-2.9.10.jar', 'jackson-core-databind-2.9.10.4.jar', 'jackson-mapper-asl-1.9.13.jar', 'jackson-servlet-api-3.1.0.jar', 'jackson-jaxb-a-2.2.3-1.jar', 'jcip-annotations-1.19.jar', and 'jersey-json-1.19.jar'. The logs also show the output of the 'STARTUP_M' command, which lists the classpath for the Hadoop distribution. The classpath includes various JAR files located in the 'C:\hadoop\share\hadoop\common\lib' directory, such as 'accessors-smart-1.2.jar', 'asm-5.0.4.jar', 'avro-1.7.7.jar', 'commons-beanutils-1.9.4.jar', 'commons-codec-1.11.jar', 'commons-compress-1.19.jar', 'commons-io-2.5.jar', 'commons-lang3-3.4.jar', 'commons-math3-3.1.1.jar', 'curator-client-2.13.0.jar', 'curator-recipes-2.13.0.jar', 'failureaccess-1.0.jar', 'jre-27.0-jre.jar', 'htrace-core4-tpclient-4.5.2.jar', 'httpcore-4.ions-1.1.jar', 'jackson-annotati-core-2.9.10.jar', 'jackson-core-databind-2.9.10.4.jar', 'jackson-mapper-asl-1.9.13.jar', 'jackson-servlet-api-3.1.0.jar', 'jackson-jaxb-a-2.2.3-1.jar', 'jcip-annotations-1.19.jar', and 'jersey-json-1.19.jar'.

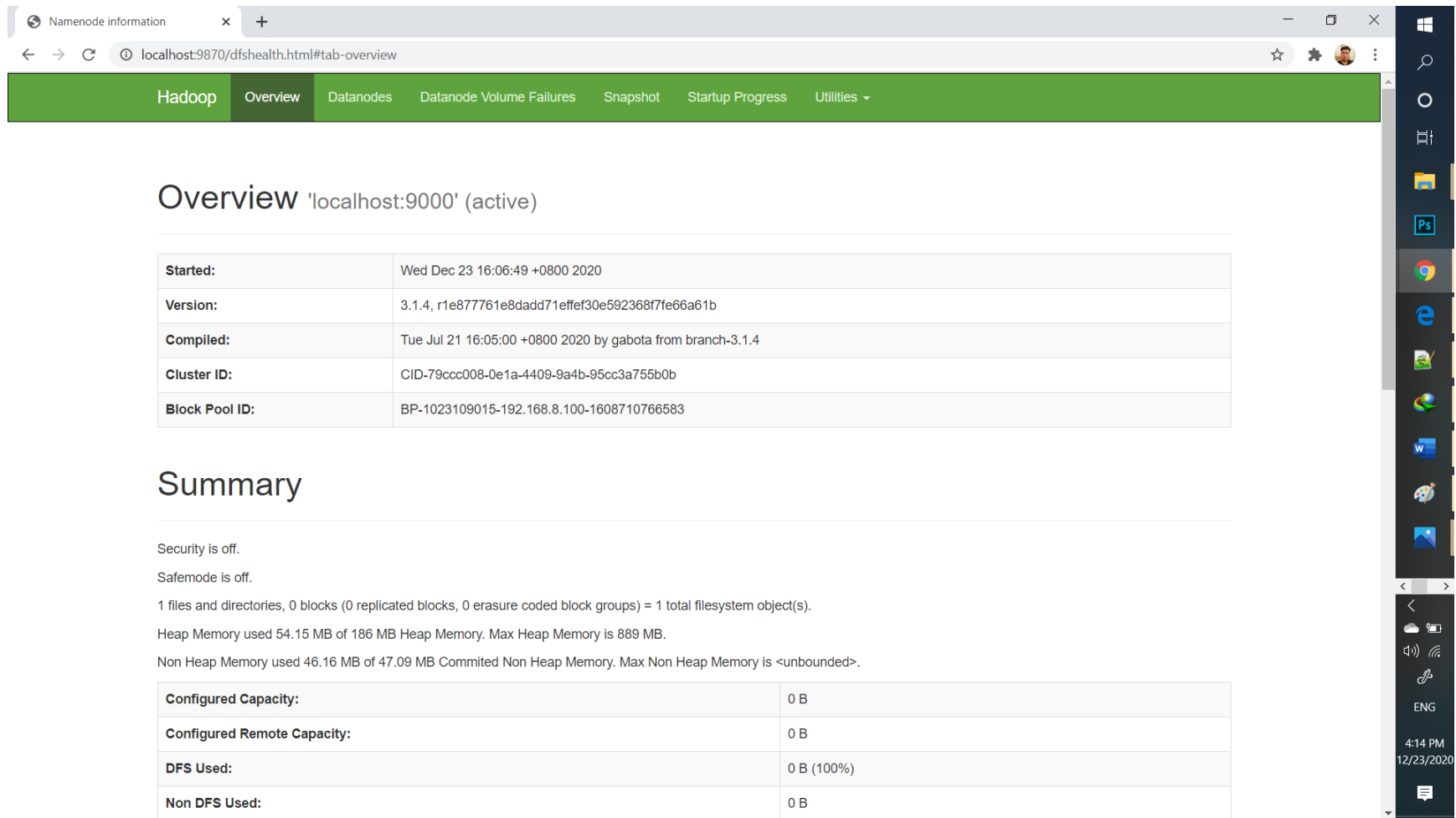
```
2020-12-23 13:20:14,235 INFO nodemanager.NodeManager: STARTUP_M
/*****
STARTUP_MSG: Starting NodeManager
STARTUP_MSG: host = DESKTOP-LURF93L/192.168.8.100
STARTUP_MSG: args = []
STARTUP_MSG: version = 3.1.4
STARTUP_MSG: classpath = C:\hadoop\etc\hadoop;C:\hadoop\etc\ha
C:\hadoop\share\hadoop\common\lib\accessors-smart-1.2.jar;C:\ha
.17.jar;C:\hadoop\share\hadoop\common\lib\asm-5.0.4.jar;C:\hado
C:\hadoop\share\hadoop\common\lib\avro-1.7.7.jar;C:\hadoop\share
re\hadoop\common\lib\commons-beanutils-1.9.4.jar;C:\hadoop\share
adoop\common\lib\commons-codec-1.11.jar;C:\hadoop\share\hadoop\
hadoop\common\lib\commons-compress-1.19.jar;C:\hadoop\share\had
\share\hadoop\common\lib\commons-io-2.5.jar;C:\hadoop\share\had
p\common\lib\commons-lang3-3.4.jar;C:\hadoop\share\hadoop\commo
n\lib\commons-math3-3.1.1.jar;C:\hadoop\share\hadoop\common\
\curator-client-2.13.0.jar;C:\hadoop\share\hadoop\common\lib\cu
lib\curator-recipes-2.13.0.jar;C:\hadoop\share\hadoop\common\li
p\common\lib\failureaccess-1.0.jar;C:\hadoop\share\hadoop\commo
ava-27.0-jre.jar;C:\hadoop\share\hadoop\common\lib\hadoop-annot
-auth-3.1.4.jar;C:\hadoop\share\hadoop\common\lib\htrace-core4
tpcllient-4.5.2.jar;C:\hadoop\share\hadoop\common\lib\httpcore4
ions-1.1.jar;C:\hadoop\share\hadoop\common\lib\jackson-annotati
core-2.9.10.jar;C:\hadoop\share\hadoop\common\lib\jackson-core
-databind-2.9.10.4.jar;C:\hadoop\share\hadoop\common\lib\jackson
on-mapper-asl-1.9.13.jar;C:\hadoop\share\hadoop\common\lib\jack
.servlet-api-3.1.0.jar;C:\hadoop\share\hadoop\common\lib\jaxb-a
-2.2.3-1.jar;C:\hadoop\share\hadoop\common\lib\jcip-annotations
1.19.jar;C:\hadoop\share\hadoop\common\lib\jersey-json-1.19.jar
C:\hadoop\share\hadoop\common\lib\jersey-servlet-1.19.jar;C:\h
```

```
STARTUP MSG: java - 1.8.0_271
*****
2020-12-23 16:06:47,923 INFO resourceplugin.ResourcePluginManager: No Resource plugins found from configuration!
2020-12-23 16:06:47,923 INFO resourceplugin.ResourcePluginManager: Found Resource plugins from configuration: null
2020-12-23 16:06:48,466 INFO nodemanager.NodeManager: Node Manager health check script is not available or doesn't have
execute permission, so not starting the node health script runner.
2020-12-23 16:06:48,593 INFO event.AsyncDispatcher: Registering class org.apache.hadoop.yarn.server.nodemanager.container
rmanager.container.ContainerEventType for class org.apache.hadoop.yarn.server.nodemanager.containermanager.ContainerMan
agerImpl$ContainerEventDispatcher
2020-12-23 16:06:48,613 INFO event.AsyncDispatcher: Registering class org.apache.hadoop.yarn.server.nodemanager.container
rmanager.application.ApplicationEventType for class org.apache.hadoop.yarn.server.nodemanager.containermanager.Container
ManagerImpl$ApplicationEventDispatcher
2020-12-23 16:06:48,646 INFO event.AsyncDispatcher: Registering class org.apache.hadoop.yarn.server.nodemanager.container
rmanager.localizer.event.LocalizationEventType for class org.apache.hadoop.yarn.server.nodemanager.containermanager.Cont
ainerManagerImpl$LocalizationEventHandlerWrapper
2020-12-23 16:06:48,662 INFO event.AsyncDispatcher: Registering class org.apache.hadoop.yarn.server.nodemanager.container
rmanager.AuxServicesEventType for class org.apache.hadoop.yarn.server.nodemanager.containermanager.AuxServices
2020-12-23 16:06:48,695 INFO event.AsyncDispatcher: Registering class org.apache.hadoop.yarn.server.nodemanager.container
rmanager.monitor.ContainersMonitorEventType for class org.apache.hadoop.yarn.server.nodemanager.containermanager.monitor
.ContainersMonitorImpl
2020-12-23 16:06:48,737 INFO event.AsyncDispatcher: Registering class org.apache.hadoop.yarn.server.nodemanager.container
rmanager.launcher.ContainersLauncherEventType for class org.apache.hadoop.yarn.server.nodemanager.containermanager.launc
her.ContainersLauncher
2020-12-23 16:06:48,754 INFO event.AsyncDispatcher: Registering class org.apache.hadoop.yarn.server.nodemanager.container
rmanager.scheduler.ContainerSchedulerEventType for class org.apache.hadoop.yarn.server.nodemanager.containermanager.sche
duler.ContainerScheduler
2020-12-23 16:06:48,769 INFO tracker.NMLogAggregationStatusTracker: the rolling interval seconds for the NodeManager Cac
hed Log aggregation status is 600
2020-12-23 16:06:48,880 INFO event.AsyncDispatcher: Registering class org.apache.hadoop.yarn.server.nodemanager.Containe
rManagerEventType for class org.apache.hadoop.yarn.server.nodemanager.containermanager.ContainerManagerImpl
```


Checking the localhost if the Hadoop has already installed by typing “<http://localhost:9870/>” but first don’t close all the CMD running (NameNode, DataNode, ResourceManager, NodeManager) so that the localhost link is working.

[illegible]

After accessing the localhost link in the web browser you will see this:



The screenshot shows a web browser window with the title "NameNode information". The address bar displays "localhost:9870/dfshealth.html#tab-overview". The browser's navigation bar is green and contains the following tabs: "Hadoop", "Overview" (selected), "Datanodes", "Datanode Volume Failures", "Snapshot", "Startup Progress", and "Utilities".

Overview 'localhost:9000' (active)

Started:	Wed Dec 23 16:06:49 +0800 2020
Version:	3.1.4, r1e877761e8dadd71effef30e592368f7fe66a61b
Compiled:	Tue Jul 21 16:05:00 +0800 2020 by gabota from branch-3.1.4
Cluster ID:	CID-79ccc008-0e1a-4409-9a4b-95cc3a755b0b
Block Pool ID:	BP-1023109015-192.168.8.100-1608710766583

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 54.15 MB of 186 MB Heap Memory. Max Heap Memory is 889 MB.

Non Heap Memory used 46.16 MB of 47.09 MB Committed Non Heap Memory. Max Non Heap Memory is <unbounded>.

Configured Capacity:	0 B
Configured Remote Capacity:	0 B
DFS Used:	0 B (100%)
Non DFS Used:	0 B

SUCCESSFULLY HADOOP HAS BEEN INSTALLED and Name Node and Data Node HAS BEEN CREATED!

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localhost:9870/dfshealth.html#tab-overview

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DataNodes usages% (Min/Median/Max/stdDev):	0.00% / 0.00% / 0.00% / 0.00%
Live Nodes	0 (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	Wed Dec 23 16:06:49 +0800 2020
Last Checkpoint Time	Wed Dec 23 16:06:06 +0800 2020

NameNode Journal Status

Current transaction ID: 1

Journal Manager	State
FileJournalManager(root=C:\hadoop-2.8.0\data\namenode)	EditLogFileOutputStream(C:\hadoop-2.8.0\data\namenode\current\edits_inprogress_0000000000000000001)

NameNode Storage

Storage Directory	Type	State
C:\hadoop-2.8.0\data\namenode	IMAGE_AND_EDITS	Active