

## Hadoop Installation in Windows

Step-1: Download Jdk 1.8 and install

Step-2: Download Hadoop 3.3.0.tar file and extract through 7-Zip

Step-3: Copy hadoop-3.3.0 file in C: Drive

Step-4: Set Path

4.1 Open Environment Variable and click new in user variable

HADOOP_HOME	C:\hadoop-3.3.0\bin
JAVA_HOME	C:\Java\jdk1.8.0_211\bin

4.2 Than click path in system variable

C:\hadoop-3.3.0\sbin
C:\hadoop-3.3.0\bin
C:\Java\jdk1.8.0_211\bin

Step-5 Change all file given below in C:\hadoop-3.3.0\etc folder:

# For core-site.xml

<property>

<name>fs.defaultFS</name>

<value>hdfs://localhost:9000</value>

</property>

# For hdfs-site.xml or https-site.xml

<property>

<name>dfs.replication</name>

<value>1</value>

</property><property>

<name>dfs.namenode.name.dir</name>

```
<value>C:\hadoop\data\namenode</value>
</property><property>
  <name>dfs.datanode.data.dir</name>
  <value>C:\hadoop\data\datanode</value>
</property>
```

# For mapred-site.xml

```
<property>
  <name>mapreduce.framework.name</name>
  <value>yarn</value>
</property>
```

# For yarn-site.xml

```
<property>
  <name>yarn.nodemanager.aux-services</name>
  <value>mapreduce_shuffle</value>
</property><property>
  <name>yarn.nodemanager.auxservices.mapreduce.shuffle.class</name>
  <value>org.apache.hadoop.mapred.ShuffleHandler</value>
</property>
```

Step-6: Now delete **bin** folder in Hadoop 3.3.0 and pest bin folder store in  
hadoop\_bin\_file\_and\_dll\_errro\_fix\_file this folder.

Step-7: Now copy msvcr120.dll and pest inside System32 folder.  
C:\Windows\System32

Step-8: Create data folder inside Hadoop 3.3.0 and also create namenode and  
datanode folder inside data folder.

Step -8: Open cmd as Administrator and write command

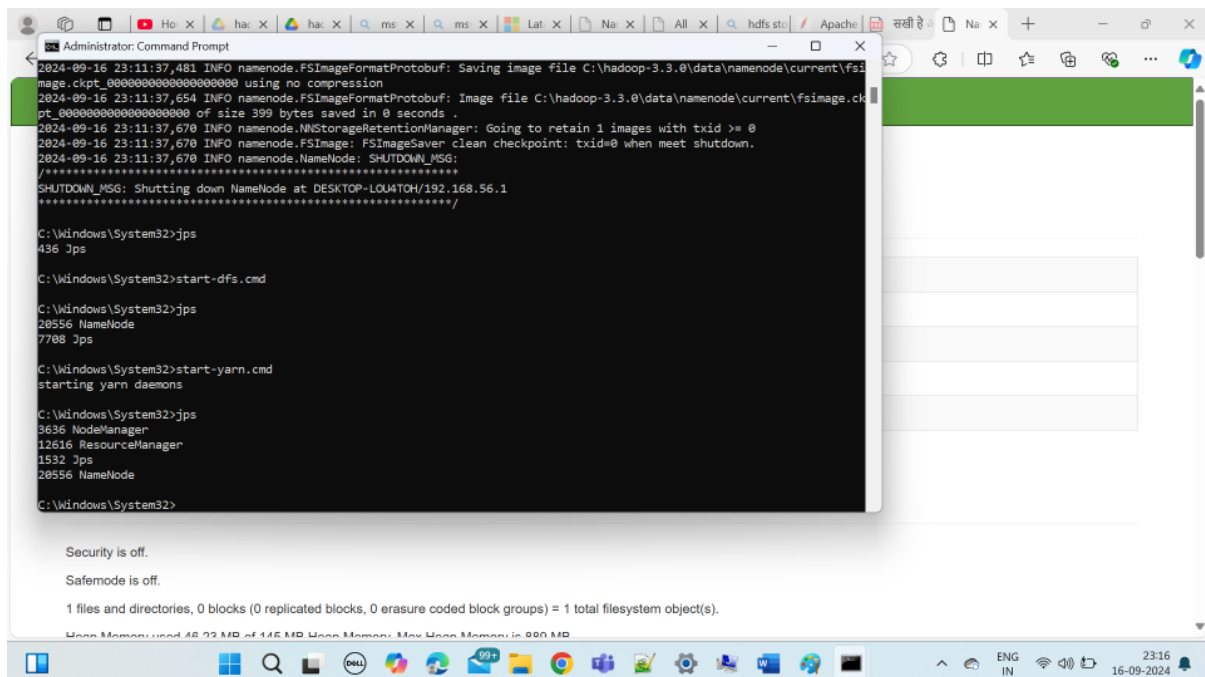
hdfs namenode -format

and follow the step command:

start-dfs.cmd

start-yarn.cmd

and then open localhost:9870



```
Administrator: Command Prompt
2024-09-16 23:11:37,481 INFO namenode.FSImageFormatProtobuf: Saving image file C:\hadoop-3.3.0\data\namenode\current\fsi
image.ckpt_00000000000000000000 using no compression
2024-09-16 23:11:37,654 INFO namenode.FSImageFormatProtobuf: Image file C:\hadoop-3.3.0\data\namenode\current\fsiimage.ck
pt_00000000000000000000 of size 399 bytes saved in 0 seconds .
2024-09-16 23:11:37,670 INFO namenode.MNStorageRetentionManager: Going to retain 1 images with txid >= 0
2024-09-16 23:11:37,670 INFO namenode.FSImage: FSImageSaver clean checkpoint: txid=0 when meet shutdown.
2024-09-16 23:11:37,670 INFO namenode.NameNode: SHUTDOWN_MSG:
/*****
SHUTDOWN_MSG: Shutting down NameNode at DESKTOP-LOU4TCH/192.168.56.1
*****/

C:\Windows\System32>jps
436 Jps

C:\Windows\System32>start-dfs.cmd

C:\Windows\System32>jps
20556 NameNode
7708 Jps

C:\Windows\System32>start-yarn.cmd
starting yarn daemons

C:\Windows\System32>jps
3636 NodeManager
12616 ResourceManager
1532 Jps
20556 NameNode

C:\Windows\System32>

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 48.22 MB of 145 MB Heap Memory. Max Heap Memory is 980 MB
```