

# **DIGITAL ASSIGNMENT 1**

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**Course: Big Data Analytics Lab** 

**Course Code: PMDS507P** 

#### **Step 1:** Check java version

```
C:\Users\Batch1>java -version
java version "1.8.0_461"
Java(TM) SE Runtime Environment (build 1.8.0_461-b11)
Java HotSpot(TM) 64-Bit Server VM (build 25.461-b11, mixed mode)
```

#### Step 2: Check Hadoop version

```
C:\Users\Batch1>hadoop version
Hadoop 3.4.1
Source code repository https://github.com/
Compiled by mthakur on 2024-10-09T14:57Z
```

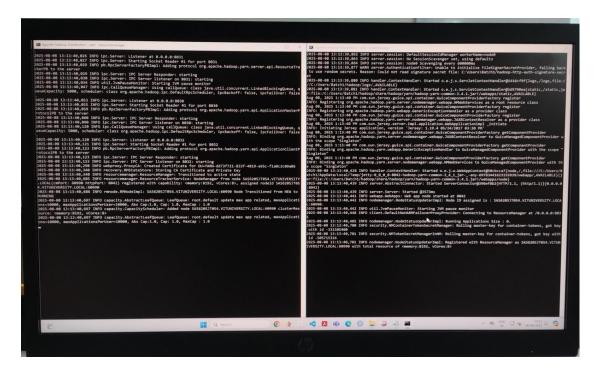
# Step 3: Go to Command Prompt and type: start-dfs.cmd

This command will start the "NameNode" and "DataNode" in separate windows.



Step 4: Now type: start-yarn.cmd

It will start the "NodeManager" and "ResourceManager" in 2 separate windows.



## Step 5: Now type: jps

It will display a list of all currently running Java processes on the local system.

```
C:\Users\Batch1>jps
10672 NodeManager
2464 NameNode
16248 ResourceManager
13644 DataNode
8188 Jps
```

### Step 6: Configure core-site.xml under the Hadoop folder

```
<name>fs.defaultFS</name>
<value>hdfs://localhost:9000</value>
```

#### **Step 7:** Configuration for hdfs-site.xml file.

```
<property>
<name>dfs.replication</name>
<value>1</value>
</property>
<property>
<name>dfs.namenode.name.dir</name>
<value>C:\users\batch1\hadoop\data\namenode</value>
</property></property>
```

```
<name>dfs.namenode.name.dir
```

## Step 8: Configuration for mapred-site.xml

```
<name>mapreduce.framework.name
```

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

</pre
```

### Step 9: Configuration for yarn-site.xml file

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