



## Big Data Analytics Lab

### PMDS507P

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Slot: L29+L30

## Digital Assignment 1

- 
- Step 1: Check the version of Java installed in the system

```
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 the version of Hadoop

```
C:\Users\batch1>hadoop version
Hadoop 3.4.1
Source code repository https://github.com/apache/hadoop.git -r 4d7825309348956336b8f96a88322b784228
49b1
Compiled by mthakur on 2024-10-09T14:57Z
Compiled on platform Linux-x86_64
Compiled with protoc 3.23.4
From source with checksum 7292fe9dba5e2e44e3a9f763fce3e680
This command was run using /C:/Users/batch1/hadoop/share/hadoop/common/hadoop-common-3.4.1.jar
```

- Step 3: Start the distributed file system (DFS)

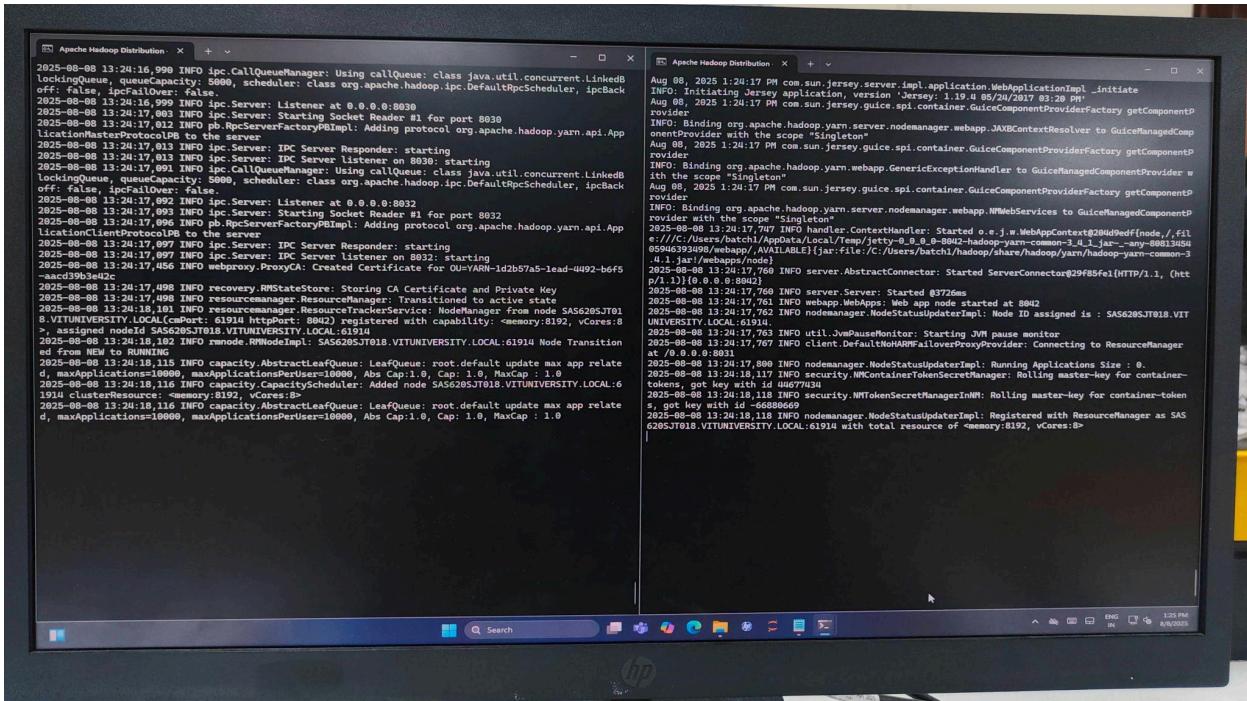
C:\Users\Batch1>start-dfs.cmd

## Name node and Data node

- Step 4: Start yarn

```
C:\Users\Batch1>start-yarn.cmd  
starting yarn daemons
```

## Resource manager and Node manager



### ● Step 5: Java Processing status

```
C:\Users\batch1>jps
18672 NameNode
20912 NodeManager
2720 Jps
17228 ResourceManager
22108 DataNode
```

- Step 6: Core-site.xml

```
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-->  
<!-- Put site-specific property overrides in this file. -->  
  
<configuration>  
<property>  
<name>hadoop.tmp.dir</name>  
<value>C:\Users\Batch1\temp\hadoop-#${user.name}</value>  
<description>A base for other temporary directories.</description>  
</property>  
  
<property>  
<name>fs.defaultFS</name>  
<value>hdfs://localhost:9000</value>  
</property>  
</configuration>
```

- Step 7:Hdfs-site.xml

```
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-->

<!-- Put site-specific property overrides in this file. -->

<configuration>
<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.datanode.data.dir</name>
<value>C:\Users\Batch1\hadoop\data\datanode</value>
</property>
</configuration>
```

- Step 8:Mapred-site.xml

```
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-->

<!-- Put site-specific property overrides in this file. -->

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

D:)
```

- Step 9:Yarn-site.xml

```
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```

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```
-->
<configuration>
<property>
  <name>yarn.tmp.dir</name>
  <value>C:\Users\Batch1\tmp\yarn-${user.name}</value>
  <description>A base for other temporary directories.</description>
</property>
<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>
|
</configuration>
```

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- Step 10:MSVCR120.dll file

