



BIG DATA TECHNOLOGY

Hadoop Installation

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Hadoop Installation Guide

Step1:Download Jdk 8 or above version

Link: <https://www.oracle.com/in/java/technologies/javase/javase8-archive-downloads.html>

Alternative crack

version:<https://www.oracle.com/java/technologies/downloads/>

Step2:install java then set your environment variable

Ex:c:/java/java-11/bin

Step3:Download Hadoop version 3.3.2 then install set environment variable

Ex:c:/Hadoop/bin

C:/Hadoop/sbin

Step4:check your java package is intall or not

1.open commend prompt

2.type ->java -version

Step5:open Hadoop->etc->Hadoop

=>inside open 5 folders your preferred IDE [core-sit.xml,mapred-site.xml,yarn-site.xml,hdfs-site.xml,Hadoop-env.cmd]

Core-site.xml:

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

Mapred-site.xml

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

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Yarn-site.xml



```
<configuration>
  <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>
```



Hdfs-site.xml



Go to click Hadoop folder click->create new folder name it data->inside create datanode and namenode folder.below code value tag path give your current path value of datanode and namenode.



```
<configuration>
  <property>
    <name>dfs.replication</name>
    <value>1</value>
  </property>
  <property>
    <name>dfs.namenode.name.dir</name>
    <value>C:\hadoop-3.3.2\data\namenode</value>
  </property>
  <property>
    <name>dfs.datanode.data.dir</name>
    <value>C:\hadoop-3.3.2\data\datanode</value>
  </property>
</configuration>
```



Hadoop-env.cmd



```
set JAVA_HOME=C:\java\jdk-11
```



set your java path above JAVA_HOME

step6:change Hadoop default bin folder

go to download extract then change this bin folder to Hadoop folder

<https://github.com/vignesan-siva/hadoop->

Step7:open comment prompt

=>type->hdfs namenode -format

=>go to Hadoop sbin path

Ex:c:/Hadoop/sbin start-all.cmd

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Happy Learning Thank you