My System: Windows 7 ID: WQD180093

Hadoop Version: 2.7.3
Java version: 1.8.0\_221
Hive version: 2.1.0
Derby version: 10.12.1.1

**Step 1**: Verifying JAVA Installation. Type java -version in cmd to check installed java version. To install java, go to this link to download, <a href="https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html">https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html</a>.

NAME: CHONG MING KEAT

```
Microsoft Windows [Version 6.1.7601]

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C:\Users\User>java -version

The system cannot find the file C:\ProgramData\Oracle\Java\javapath\java.exe.

C:\Users\User>cd C:\Java\jdk1.8.0_221\bin

C:\Java\jdk1.8.0_221\bin>java -version
java version "1.8.0_221"

Java(TM) SE Runtime Environment (build 1.8.0_221-b11)

Java HotSpot(TM) 64-Bit Server VM (build 25.221-b11, mixed mode)

C:\Java\jdk1.8.0_221\bin>
```

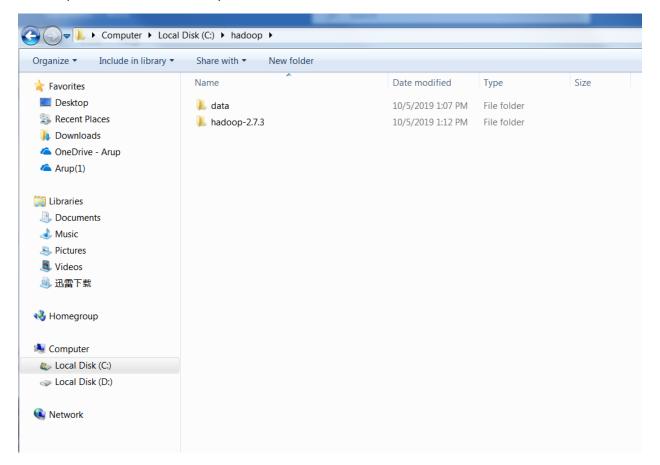
#### Step 2: Verifying Hadoop Installation

2.1 Go to this link and download Hadoop, https://archive.apache.org/dist/hadoop/core/hadoop-2.7.3/

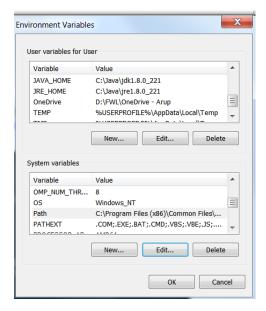
### Index of /dist/hadoop/core/hadoop-2.7.3

	Name	Last modifi	<u>ed</u>	<u>Size</u>	<u>Description</u>
<b>*</b>	Parent Directory			-	
	hadoop-2.7.3-src.tar.gz	2016-08-25	19:25	17M	4
	hadoop-2.7.3-src.tar.gz.asc	2016-08-25	19:25	521	
	hadoop-2.7.3-src.tar.gz.mds	2016-08-25	19:25	1.1K	
	hadoop-2.7.3.tar.gz	2016-08-25	19:25	204M	
	hadoop-2.7.3.tar.gz.asc	2016-08-25	19:25	521	
	hadoop-2.7.3.tar.gz.mds	2016-08-25	19:25	958	

2.2 Unzip the file and save inside your drive.



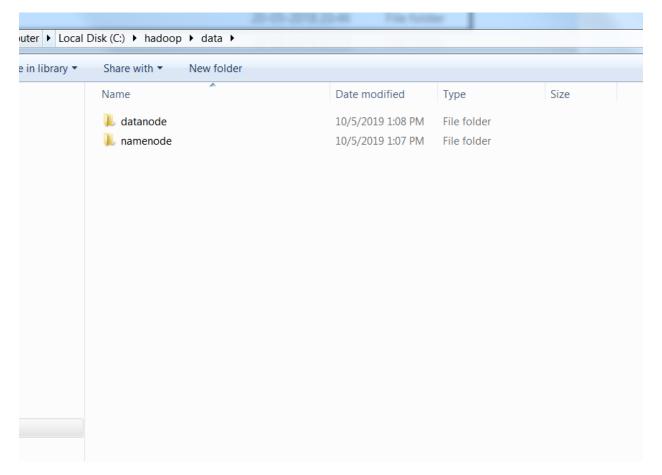
**2.3** Set JAVA\_HOME, HADOOP\_HOME and append the path of bin for java and Hadoop at system variables.



# **2.4** configure Hadoop files, Hadoop-env.cmd, core-site.xml, Mapred-site.xml, Hdfs-site.xml and Yarn-site.xml

PC > OS (C:) > hadoop > hadoop-2.7	7.3 > etc > hadoop		
Name	Date modified	Туре	Size
core-site.xml	17-05-2018 14:07	XML Document	2 KI
hadoop-env.cmd	17-05-2018 13:57	Windows Comma	4 KI
🍑 hadoop-env.sh	17-05-2018 13:12	Shell Script	5 K
hadoop-metrics.properties	17-05-2018 13:12	PROPERTIES File	3 K
hadoop-metrics2.properties	17-05-2018 13:12	PROPERTIES File	3 K
hadoop-policy.xml	17-05-2018 13:12	XML Document	10 K
hdfs-site.xml	20-05-2018 21:03	XML Document	2 K
httpfs-env.sh	17-05-2018 13:12	Shell Script	2 K
httpfs-log4j.properties	17-05-2018 13:12	PROPERTIES File	2 K
httpfs-signature.secret	17-05-2018 13:12	SECRET File	1 K
httpfs-site.xml	17-05-2018 13:12	XML Document	1 K
kms-acls.xml	17-05-2018 13:12	XML Document	4 K
kms-env.sh	17-05-2018 13:12	Shell Script	2 K
kms-log4j.properties	17-05-2018 13:12	PROPERTIES File	2 K
kms-site.xml	17-05-2018 13:12	XML Document	6 K
log4j.properties	17-05-2018 13:12	PROPERTIES File	11 K
mapred-env.cmd	17-05-2018 13:12	Windows Comma	1 K
napred-env.sh	17-05-2018 13:12	Shell Script	2 K
mapred-queues.xml.template	17-05-2018 13:12	Dev-C++ Templat	5 K
mapred-site.xml	17-05-2018 13:12	XML Document	1 K
mapred-site.xml.template	20-05-2018 21:33	Dev-C++ Templat	2 K
slaves	17-05-2018 13:12	File	1 K
ssl-client.xml.example	17-05-2018 13:12	EXAMPLE File	3 K
ssl-server.xml.example	17-05-2018 13:12	EXAMPLE File	3 K
syarn-env.cmd	17-05-2018 13:12	Windows Comma	3 K
🅎 yarn-env.sh	17-05-2018 13:12	Shell Script	5 K
garn-site.xml	20-05-2018 21:28	XML Document	2 K

### 2.5 Create two folders by the name Namenode and Datanode



### 2.6 Go to cmd and cd to Hadoop/sbin and type start-all.cmd

```
Administrator: C:\Windows\System32\cmd.exe

Microsoft Windows [Version 6.1.7601]

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C:\Windows\system32>cd C:\hadoop\hadoop-2.7.3\sbin

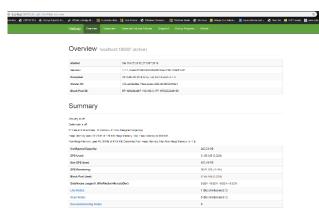
C:\hadoop\hadoop-2.7.3\sbin>start-all.cmd
```

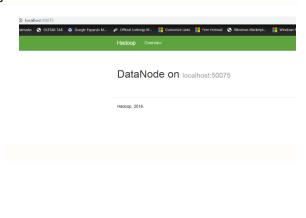
### 4 extra command prompts will pop out

```
### After the Company of the Company
```

### **2.7** Verify the hive is working via with browser:

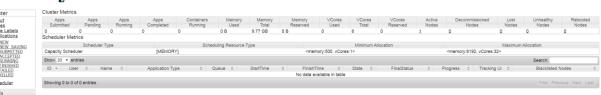
- Namenode (hdfs) http://localhost:50070
- Datanode http://localhost:50075
- All Applications (cluster) http://localhost:8088







### All Applications



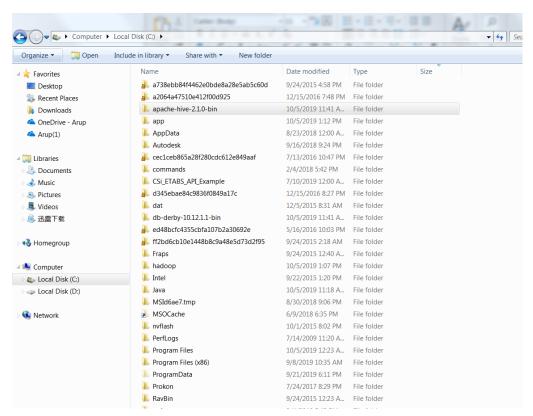
### Step 4: Installing Hive

4.1 Download Hive file at <a href="https://archive.apache.org/dist/hive/hive-2.1.0/">https://archive.apache.org/dist/hive/hive-2.1.0/</a>

## Index of /dist/hive/hive-2.1.0

Name	Last modified	<u>Size</u> <u>Description</u>
Parent Directory		-
apache-hive-2.1.0-bin.tar.gz	2016-06-21 01:26	143M <b>←</b>
apache-hive-2.1.0-bin.tar.gz.asc	2016-06-21 01:26	819
<pre>apache-hive-2.1.0-bin.tar.gz.md5</pre>	2016-06-21 01:26	70
apache-hive-2.1.0-src.tar.gz	2016-06-21 01:26	18M
<pre>apache-hive-2.1.0-src.tar.gz.asc</pre>	2016-06-21 01:26	819
<pre>apache-hive-2.1.0-src.tar.gz.md5</pre>	2016-06-21 01:26	70

### 4.2 Unzip the file and put it at your drive



### Step 5: Configuring Hive

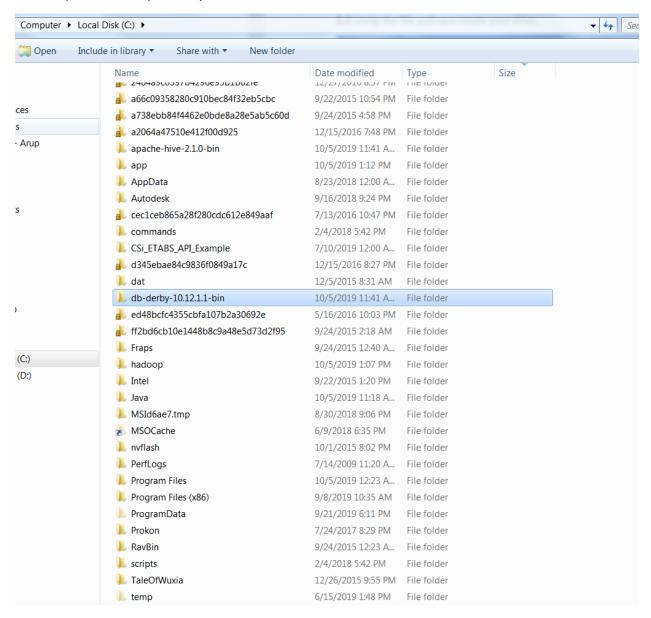
Go to Hive->conf and configure hive-site.xml file for derby

### **Step 6:** Downloading and Installing Apache Derby

Go to the link <a href="https://archive.apache.org/dist/db/derby/db-derby-10.12.1.1/">https://archive.apache.org/dist/db/derby/db-derby-10.12.1.1/</a> download the .tar file

	Name	Last modified	<u>Size</u> <u>Description</u>
٥	Parent Directory		-
	db-derby-10.12.1.1-bin.tar.gz	2015-10-10 14:38	18M 🚣
	db-derby-10.12.1.1-bin.tar.gz.asc	2015-10-10 14:38	194
	db-derby-10.12.1.1-bin.tar.gz.md5	2015-10-10 14:38	33
<u>D</u>	db-derby-10.12.1.1-bin.zip	2015-10-10 14:38	20M
	db-derby-10.12.1.1-bin.zip.asc	2015-10-10 14:38	194
Ē	db-derby-10.12.1.1-bin.zip.md5	2015-10-10 14:38	33
<u>į</u>	db-derby-10.12.1.1-lib-debug.tar.gz	2015-10-10 14:38	14M
	db-derby-10.12.1.1-lib-debug.tar.gz.asc	2015-10-10 14:38	194
	db-derby-10.12.1.1-lib-debug.tar.gz.md5	2015-10-10 14:38	33
Ų.	db-derby-10.12.1.1-lib-debug.zip	2015-10-10 14:38	14M
	db-derby-10.12.1.1-lib-debug.zip.asc	2015-10-10 14:38	194
	db-derby-10.12.1.1-lib-debug.zip.md5	2015-10-10 14:38	33
	db-derby-10.12.1.1-lib.tar.gz	2015-10-10 14:38	12M
	db-derby-10.12.1.1-lib.tar.gz.asc	2015-10-10 14:38	194
	db-derby-10.12.1.1-lib.tar.gz.md5	2015-10-10 14:38	33
<u>.</u>	db-derby-10.12.1.1-lib.zip	2015-10-10 14:38	12M
	db-derby-10.12.1.1-lib.zip.asc	2015-10-10 14:38	194
	db-derby-10.12.1.1-lib.zip.md5	2015-10-10 14:38	33
	db-derby-10.12.1.1-src.tar.gz	2015-10-10 14:38	27M
	db-derby-10.12.1.1-src.tar.gz.asc	2015-10-10 14:38	194
	db-derby-10.12.1.1-src.tar.gz.md5	2015-10-10 14:38	33
	db-derby-10.12.1.1-src.zip	2015-10-10 14:38	33M
	db-derby-10.12.1.1-src.zip.asc	2015-10-10 14:38	194
	db-derby-10.12.1.1-src.zip.md5	2015-10-10 14:38	33

### **6.1**. unzip the file and put It at your drive



**6.2** go into C:\db-derby-10.12.1.1-bin\lib and copy all the file and paste it into C:\apache-hive-2.1.0-bin\lib

**6.3** Go into command prompt and type startNetworkServer -h 0.0.0.0 to start derby server.

```
Administrator: C:\Windows\System32\cmd.exe - startNetworkServer -h 0.0.0.0
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
  :\Windows\system32>cd C:\db-derby-10.12.1.1-bin
  :\db-derby-10.12.1.1-bin>cd bin
C:\db-derby-10.12.1.1-bin\bin>startNetworkServer -h 0.0.0.0
Sat Oct 05 23:28:57 SGT 2019 : Security manager installed using the Basic server security policy.
Sat Oct 05 23:28:57 SGT 2019 : Apache Derby Network Server - 10.12.1.1 - (1704137) started and ready to accept connections on port 1527
```

### **Step 7**: Configuring Metastore of Hive

7.1 Go into command prompt and cd to C:\apache-hive-2.1.0-bin\bin and type jps -m to check NetworkServerControl.

```
Administrator: C:\Windows\System32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Windows\system32>cd C:\apache-hive-2.1.0-bin
C:\apache-hive-2.1.0-bin>cd bin
C:\apache-hive-2.1.0-bin\bin>jos -m
'jos' is not recognized as an internal or external command,
operable program or batch file.
C:\apache-hive-2.1.0-bin\bin>jps -m
8784 DataNode
9072 NameNode
9412 NodeManager
12440 NetworkServerControl start -h 0.0.0.0
3112 ResourceManager
9480 Jps -m
```

```
C:\apache-hive-2.1.0-bin\bin>hive
ERROR StatusLogger No log4j2 configuration file found. Using default configuration: logging only errors to the console.
Connecting to jdbc:hive2://
Connecting to jdbc:hive2://
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/C:/apache-hive-2.1.0-bin/lib/log4j-slf4j-imp1-2.4.1.jar*/org/slf4j/imp1/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/C:/abachoey/hadoop/acdoop/common/lib/slf4j-log4j12-1.7.10.jar*/org/slf4j/imp1/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory]
Connected to: Apache Hive (version 2.1.0)
Driver: Hive JDBC (version 2.1.0)
Transaction isolation: TRANSACTION_REPEATABLE_READ
Beeline version 2.1.0 by Apache Hive
```

### **Step 8**: Verifying Hive Installation

Try to create database and show table in Hive

```
hive> SHOW DATABASES;
OK
default
test
training
3 rows selected (0.441 seconds)
hive> show tables;
OK
testhive
1 row selected (0.109 seconds)
hive>
```

Try insert value into testhive and show values and check the submit application at cluster

