**20133122 – Đỗ Hoàng Thịnh**

**Apache Hive - Installation**

# Cài đặt Java & Hadoop

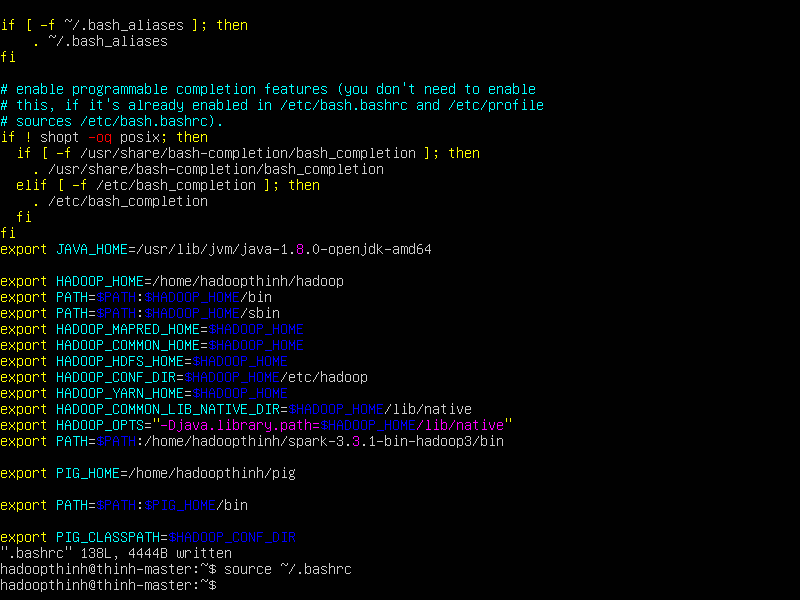
## Cài đặt Java

Install Java-8 (Hive support Java 8)

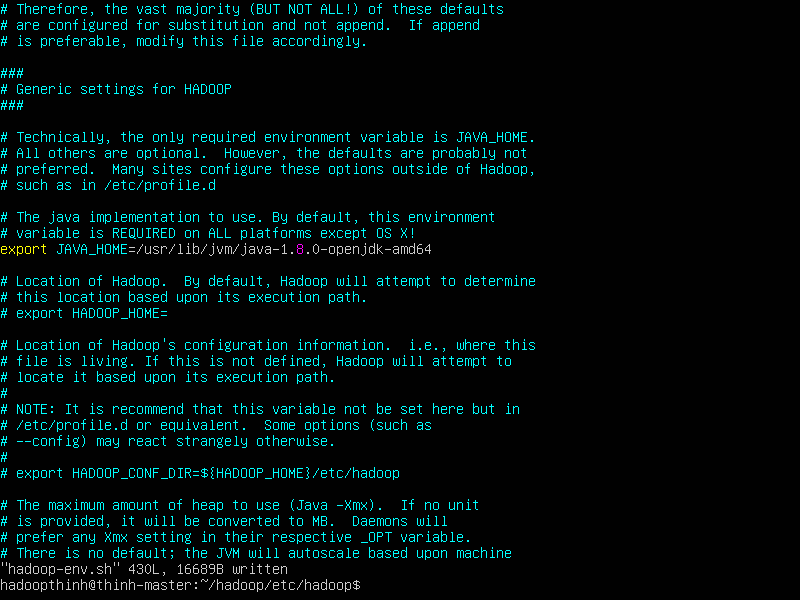
$ sudo apt install openjdk-8-jdk

Thay đổi biến môi trường JAVA\_HOME để hệ thống chạy theo java-8

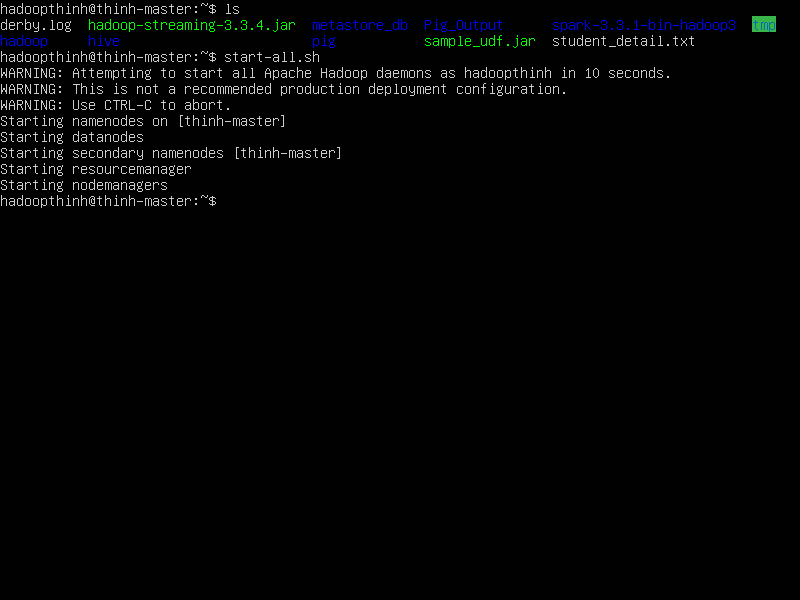
* File bashrc



* File hadoop-env.sh



## Cài đặt Hadoop (Đã thực hiện)





# Cài đặt Hive

$ wget https://dlcdn.apache.org/hive/hive-3.1.3/apache-hive-3.1.3-bin.tar.gz

$ tar -xzf apache-hive-3.1.3-bin.tar.gz

Text

Description automatically generated$ mv apache-hive-3.1.3-bin hive

## Cài đặt biến môi trường cho Hive

$ vim ~/.bashrc

Code---------------------------------------------------------------------------------

export HIVE\_HOME=/home/hadoopthinh/hive

export PATH=$PATH:$HIVE\_HOME/bin

export PATH=$PATH:$JAVA\_HOME/bin

export CLASSPATH=$CLASSPATH:/home/hadoopthinh/hadoop/lib/\*:.

export CLASSPATH=$CLASSPATH:/home/hadoopthinh/hive/lib/\*:.

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$ source ~/.bashrc

## Cấu hình Hive

Tạo file hive-env.sh từ file mẫu và chỉnh lại nội dung

$ cd hive/conf

$ cp hive-env.sh.template hive-env.sh

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$ export HADOOP\_HOME=/home/hadoopthinh/hadoop

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# Cài đặt Derby

$ wget https://dlcdn.apache.org//db/derby/db-derby-10.15.2.0/db-derby-10.15.2.0-bin.tar.gz

$ tar -xzf db-derby-10.15.2.0-bin.tar.gz

$ mv db-derby-10.15.2.0-bin derby

## Text Description automatically generated Cài đặt biến môi trường cho Derby

$ vim ~/.bashrc

Code---------------------------------------------------------------------------------

export DERBY\_HOME=/home/hadoopthinh/derby

export PATH=$PATH:$DERBY\_HOME/bin

export CLASSPATH=$CLASSPATH:$DERBY\_HOME/lib/derby.jar:$DERBY\_HOME/lib/derbytools.jar

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# Tạo thư mục để lưu Metastore

$ mkdir $DERBY\_HOME/data

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## Cấu hình Metastrore cho Hive

Tạo và cấu hình hive-site.xml từ file mẫu   
$ cd hive/conf

$ cp hive-default.xml.template hive-site.xml

Code---------------------------------------------------------------------------------

<property>

<name>system:java.io.tmpdir</name>

<value>/tmp/hive/java</value>

</property>

<property>

<name>system:user.name</name>

<value>${user.name}</value>

</property>

<property>

<name>javax.jdo.option.ConnectionURL</name>

<value>jdbc:derby://thinh-master:1527/metastore\_db;create=true </value>

</property>

Text

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## Tạo file jpox.properties

Từ thư mục conf trong thư mục hive, tạo file jpox.properties.

$ vim jpox.properties

Code---------------------------------------------------------------------------------

javax.jdo.PersistenceManagerFactoryClass=org.jpox.PersistenceManagerFactoryImpl

org.jpox.autoCreateSchema=false

org.jpox.validateTables=false

org.jpox.validateColumns=false

org.jpox.validateConstraints=false

org.jpox.storeManagerType=rdbms

org.jpox.autoCreateSchema=true

org.jpox.autoStartMechanismMode=checked

org.jpox.transactionIsolation=read\_committed

javax.jdo.option.DetachAllOnCommit=true

javax.jdo.option.NontransactionalRead=true

javax.jdo.option.ConnectionDriverName=org.apache.derby.jdbc.ClientDriver

javax.jdo.option.ConnectionURL=jdbc:derby://thinh-master:1527/metastore\_db;create=true

javax.jdo.option.ConnectionUserName=hadoopthinh

javax.jdo.option.ConnectionPassword=hadoopthinh

Text

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# Kiểm tra Hive

Tạo thư mục /tmp và /thinh/hive/warehouse trên HDFS

$ hdfs dfs -mkdir /tmp

$ hdfs dfs -chmod g+w /tmp

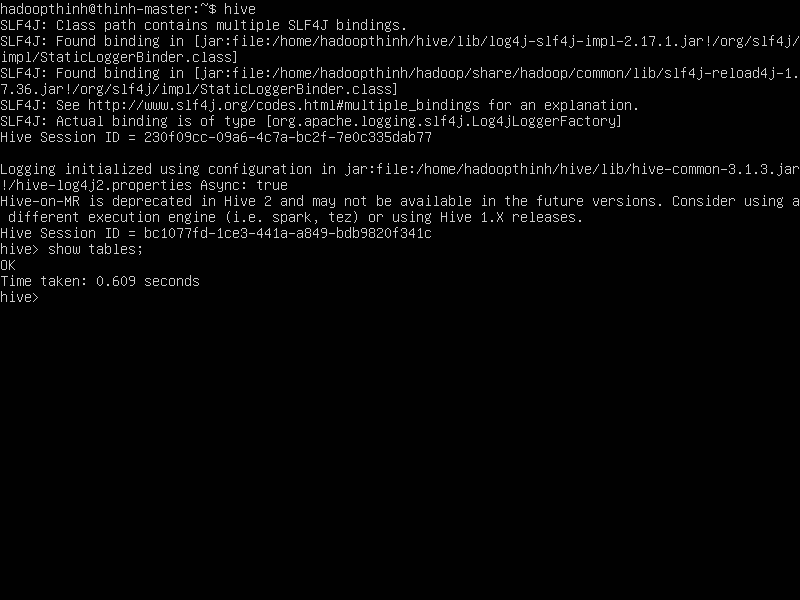
$ hdfs dfs -mkdir -p /thinh/hive/warehouse

$ hdfs dfs -chmod g+w /thinh/hive/warehouse

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# Chạy Hive



## Fix SLJ4F Result

