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hadoop@ab4cse1bm133: ~/apache-hive-3.1.2-bin
hadoop@ab4cse1bm133:~$ sudo update-alternatives --config java
[sudo] password for hadoop:
There are 2 choices for the alternative java (providing /usr/bin/java).

  Selection    Path                                            Priority  Status
  ----
  0             /usr/lib/jvm/java-11-openjdk-and64/bin/java    1111    auto mode
  1             /usr/lib/jvm/java-11-openjdk-and64/bin/java    1111    manual mode
  * 2           /usr/lib/jvm/java-8-openjdk-and64/jre/bin/java 1081    manual mode

Press <enter> to keep the current choice[*], or type selection number: 2
hadoop@ab4cse1bm133:~$ nano $HADOOP_HOME/etc/hadoop/hadoop-env.sh
hadoop@ab4cse1bm133:~$ wget https://apache.osuosl.org/hive/hive-3.1.2/apache-hive-3.1.2-bin.tar.gz
--2022-10-13 09:30:38-- https://apache.osuosl.org/hive/hive-3.1.2/apache-hive-3.1.2-bin.tar.gz
Resolving apache.osuosl.org (apache.osuosl.org)... 64.50.233.108, 146.211.166.134, 64.50.236.52, ...
Connecting to apache.osuosl.org (apache.osuosl.org)|64.50.233.108|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 278813748 (266M) [application/x-gzip]
Saving to: 'apache-hive-3.1.2-bin.tar.gz'

apache-hive-3.1.2-bin.tar.gz      100%[=====] 265.90M  1.92MB/s   in 2m 52s

2022-10-13 09:33:36 (1.55 MB/s) - 'apache-hive-3.1.2-bin.tar.gz' saved [278813748/278813748]

hadoop@ab4cse1bm133:~$ tar -xzf apache-hive-3.1.2-bin.tar.gz
hadoop@ab4cse1bm133:~$ nano ~/.bashrc
hadoop@ab4cse1bm133:~$ source ~/.bashrc
hadoop@ab4cse1bm133:~$ cd $HIVE_HOME/conf
hadoop@ab4cse1bm133:~/apache-hive-3.1.2-bin/conf$ cp hive-default.xml.template hive-site.xml
hadoop@ab4cse1bm133:~/apache-hive-3.1.2-bin/conf$ sudo gedit hive-site.xml

(gedit:18019): Tepl-WARNING **: 09:42:26.047: GVfs metadata is not supported. Fallback to TeplMetadataManager. Either GVfs is not correctly in
stalled or GVfs metadata are not supported on this platform. In the latter case, you should configure Tepl with --disable-gvfs-metadata.
hadoop@ab4cse1bm133:~/apache-hive-3.1.2-bin/conf$ start-all.sh
WARNING: Attempting to start all Apache Hadoop daemons as hadoop in 10 seconds.
WARNING: This is not a recommended production deployment configuration.
WARNING: Use CTRL-C to abort.
Starting namenodes on [localhost]
```

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hadoop@ab4cse1bm133: ~/apache-hive-3.1.2-bin
WARNING: Use CTRL-C to abort.
Starting namenodes on [localhost]
Starting datanodes
Starting secondary namenodes [ab4cse1bm133]
Starting resourcemanager
Starting nodemanagers
hadoop@ab4cse1bm133:~/apache-hive-3.1.2-bin/conf$ jps
21698 SecondaryNameNode
22467 Jps
21444 DataNode
21303 NameNode
21975 ResourceManager
22125 NodeManager
hadoop@ab4cse1bm133:~/apache-hive-3.1.2-bin/conf$ hadoop fs -mkdir /user/
mkdir: Cannot create directory /user. Name node is in safe mode.
hadoop@ab4cse1bm133:~/apache-hive-3.1.2-bin/conf$ cd
hadoop@ab4cse1bm133:~$ hadoop fs -mkdir /user/
hadoop@ab4cse1bm133:~$ hadoop fs -mkdir /user/hive/
hadoop@ab4cse1bm133:~$ hadoop fs -mkdir /user/hive/warehouse
hadoop@ab4cse1bm133:~$ hadoop fs -mkdir /user/tnp
hadoop@ab4cse1bm133:~$ hadoop fs -chmod g+w /user/hive/warehouse
hadoop@ab4cse1bm133:~$ hadoop fs -chmod g+w /user/tnp
hadoop@ab4cse1bm133:~$ rm $HIVE_HOME/lib/guava-19.0.jar
hadoop@ab4cse1bm133:~$ cp $HADOOP_HOME/share/hadoop/hdfs/lib/guava-27.0-jre.jar $HIVE_HOME/lib/
hadoop@ab4cse1bm133:~$ cd $HIVE_HOME
hadoop@ab4cse1bm133:~/apache-hive-3.1.2-bin$ bin/schematool -initSchema -dbType derby
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/hadoop/apache-hive-3.1.2-bin/lib/log4j-slf4j-impl-2.10.0.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/hadoop/hadoop-3.2.3/share/hadoop/common/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinde
r.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]
Metastore connection URL: jdbc:derby:databaseName=metastore_db;create=true
Metastore Connection Driver: org.apache.derby.jdbc.EmbeddedDriver
Metastore connection user: APP
Starting metastore schema initialization to 3.1.0
Initialization script hive-schema-3.1.0.derby.sql
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hadoop@ab4cse1bm133: ~/apache-hive-3.1.2-bin
Initialization script completed
schematool completed
hadoop@ab4cse1bm133:~/apache-hive-3.1.2-bin$ hive --version
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/hadoop/apache-hive-3.1.2-bin/lib/log4j-slf4j-impl-2.10.0.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/hadoop/hadoop-3.2.3/share/hadoop/common/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinde
r.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]
Hive 3.1.2
git git://H13934/Users/gates/tmp/hive-branch-3.1/hive -r 819d2be7b7165effa62bd2b7d60ef81fb0e4af
Compiled by gates on Thu Aug 22 15:01:18 PDT 2019
From source with checksum 0492c08f784b188c349f6afbd8d9847
hadoop@ab4cse1bm133:~/apache-hive-3.1.2-bin$ hive
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/hadoop/apache-hive-3.1.2-bin/lib/log4j-slf4j-impl-2.10.0.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/hadoop/hadoop-3.2.3/share/hadoop/common/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinde
r.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]
Hive Session ID = db8d9d7d-cb00-42a2-af44-857ed6d57f2a

Logging initialized using configuration in jar:file:/home/hadoop/apache-hive-3.1.2-bin/lib/hive-common-3.1.2.jar!/hive-log4j2.properties Async
: true
Hive Session ID = 8bbba6a2-22a9-4a9e-adcc-f65bb91a1e15
Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, t
ez) or using Hive 1.X releases.
hive>
```

```

#check
sudo update-alternatives --config java (select java version 8)

nano $HADOOP_HOME/etc/hadoop/hadoop-env.sh
export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64

#Hive
wget https://apache.osuosl.org/hive/hive-3.1.2/apache-hive-3.1.2-bin.tar.gz

tar -xzf apache-hive-3.1.2-bin.tar.gz
nano ~/.bashrc

#Hive configurations
export HIVE_HOME=/home/hadoop/apache-hive-3.1.2-bin
export PATH=$PATH:$HIVE_HOME/sbin:$HIVE_HOME/bin
export CLASSPATH=$CLASSPATH:$HADOOP_HOME/lib/*:$HIVE_HOME/lib/*

source ~/.bashrc

cd $HIVE_HOME/conf
cp hive-default.xml.template hive-site.xml
sudo gedit hive-site.xml
    ( 1. Replace all occurrences of ${system:java.io.tmpdir} to /tmp/hive

        2. Replace all occurrences of ${system:user.name} to hadoop, the username should be the one you log
        in with.

        3. (line no 3215 delete spl char &#8;)
    #Create the warehouse directory within the /user/hive/ parent directory
    hadoop fs -mkdir /user/
    hadoop fs -mkdir /user/hive/
    hadoop fs -mkdir /user/hive/warehouse

    #Create tmp Directory
    hadoop fs -mkdir /user/tmp

    #Add write and execute permissions to warehouse & tmp group members
    hadoop fs -chmod g+w /user/hive/warehouse
    hadoop fs -chmod g+w /user/tmp

    #Version Conflict
    rm $HIVE_HOME/lib/guava-19.0.jar
    cp $HADOOP_HOME/share/hadoop/hdfs/lib/guava-27.0-jre.jar $HIVE_HOME/lib/
    start-all.sh
    cd $HIVE_HOME
    bin/schematool -initSchema -dbType derby
    hive --version
    cd
    hive

```