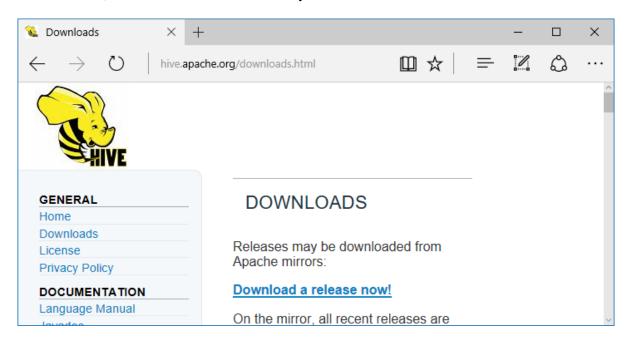
1. Download HIVE, and EXTRACT to the folder of your choice



2. Setting Hive environment variable:

```
user@ubuntu:~$ sudo gedit ~/.bashrc
```

Copy and paste the following lines at end of the file

```
# Set HIVE_HOME
export HIVE_HOME="/usr/lib/hive/apache-hive-0.13.0-bin"
PATH=$PATH:$HIVE_HOME/bin
export PATH
```

```
.bashrc
 Open ▼
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                                                Save
                                                        п
File Edit View Search Tools Documents Help
bash completion
  elif [ -f /etc/bash completion ]; then
     . /etc/bash completion
  fi
fi
# Set HIVE HOME
export HIVE HOME="/usr/local/bin/hive-2.1.0"
PATH=$PATH:$HIVE HOME/bin
export PATH
                                   Tab Width: 8 ▼
                                              Ln 122, Col 12
```

3. Setting HADOOP PATH in HIVE config.sh

```
user@ubuntu:~$ cd /hive_install_dir/bin
user@ubuntu:~$ sudo gedit hive-config.sh
```

Go to the line where the following statements are written

```
# Allow alternate conf dir location.
HIVE_CONF_DIR="${HIVE_CONF_DIR:-$HIVE_HOME/conf"
export HIVE_CONF_DIR=$HIVE_CONF_DIR
export HIVE AUX JARS PATH=$HIVE AUX JARS PATH
```

Below this write the following

export HADOOP_HOME=/usr/local/hadoop (write the path where hadoop file is there)



4. Create Hive directories within HDFS

hadoop fs -mkdir /hive/warehouse

Setting READ/WRITE permission for table

hadoop fs -chmod g+w /hive/warehouse

5. Rename hive-env.sh.template to hive-env.sh, and hive-default.xml.template to hive-default.xml

```
ysf@ubuntu: /usr/local/bin/hive-2.1.0/conf

File Edit View Search Terminal Help

ysf@ubuntu:/usr/local/bin/hive-2.1.0/conf$ ls
beeline-log4j2.properties.template ivysettings.xml
derby.log llap-cli-log4j2.properties.template
hive-default.xml llap-daemon-log4j2.properties.template
hive-env.sh metastore_db
hive-exec-log4j2.properties.template parquet-logging.properties
hive-log4j2.properties.template
ysf@ubuntu:/usr/local/bin/hive-2.1.0/conf$
```

6. Edit hive-env.sh

```
ysf@ubuntu: /usr/local/bin/hive-2.1.0/conf

File Edit View Search Terminal Help

GNU nano 2.5.3 File: hive-env.sh

# Set HADOOP_HOME to point to a specific hadoop install directory
HADOOP_HOME=/usr/local/bin/hadoop-2.7.3/

# Hive Configuration Directory can be controlled by:
# export HIVE_CONF_DIR=

^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos ^X Exit ^R Read File ^\ Replace ^\ U Uncut Text^T To Linter ^\ Go To Line
```

7. Edit hive-default.xml

```
vsf@ubuntu: /usr/local/bin/hive-2.1.0/conf
File Edit View Search
                    Terminal
                            File: hive-default.xml
 GNU nano 2.5.3
   <name>hive.exec.stagingdir</name>
   <value>.hive-staging</value>
   <description>Directory name that will be created inside table locations in $
   <name>hive.exec.scratchdir</name>
   <value>/hive/tmp</value>
   <description>HDFS root scratch dir for Hive jobs which gets created with wr$
  Get Help
            ^O Write Out ^W Where Is
                                        ^K
                                           Cut Text
                                                                   ^C Cur Pos
                                                         Justify
             ^R Read File
```

8. When you run hive from \$HIVE HOME/bin directory, you may get the following error:

```
SLF4J: Class path contains multiple SLF4J bindings.

SLF4J: Found binding in [jar:file:/usr/local/hadoop/share/hadoop/common/lib/slf4j-log4j12-
1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class]

SLF4J: Found binding in [jar:file:/usr/local/hive/lib/slf4j-log4j12-
1.6.1.jar!/org/slf4j/impl/StaticLoggerBinder.class]

SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.

SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
```

You are getting such warning message because of conflicts sl4j.jar which is being used from HIVE and HADOOP path. In order to get rid of this, you need to delete these jar files binding between Hadoop and Hive

```
rm lib/hive-jdbc-2.0.0-standalone.jar
rm lib/log4j-slf4j-impl-2.4.1.jar
```

9. When you run hive from \$HIVE_HOME/bin directory, you may get the following error: Starting metastore schema initialization to 2.0.0 Initialization script hive-schema-2.0.0.derby.sql Error: FUNCTION 'NUCLEUS_ASCII' already exists. (state=X0Y68,code=30000) org.apache.hadoop.hive.metastore.HiveMetaException: Schema initialization FAILED! Metastore state would be inconsistent!!

To fix this, edit hive-schema-2.1.0.derby.sql

```
ysf@ubuntu: /usr/local/bin/hive-2.1.0/scripts/metastore/upgrade/derby

File Edit View Search Terminal Help

ysf@ubuntu:/usr/local/bin/hive-2.1.0/scripts/metastore/upgrade/derby$ ls hive-sc*
hive-schema-0.10.0.derby.sql hive-schema-0.6.0.derby.sql
hive-schema-0.11.0.derby.sql hive-schema-0.7.0.derby.sql
hive-schema-0.12.0.derby.sql hive-schema-0.8.0.derby.sql
hive-schema-0.13.0.derby.sql hive-schema-1.1.0.derby.sql
hive-schema-0.3.0.derby.sql hive-schema-1.2.0.derby.sql
hive-schema-0.4.0.derby.sql hive-schema-1.3.0.derby.sql
hive-schema-0.4.1.derby.sql hive-schema-1.3.0.derby.sql
hive-schema-0.5.0.derby.sql hive-schema-2.1.0.derby.sql
hive-schema-0.5.0.derby.sql hive-schema-2.1.0.derby.sql
ysf@ubuntu:/usr/local/bin/hive-2.1.0/scripts/metastore/upgrade/derby$ sudo nano hive-schema-2.1.0.derby.sql
```

```
File Edit View Search Terminal Help

GNU nano 2.5.3

File: hive-schema-2.1.0.derby.sql

GREATE FUNCTION "APP". "NUCLEUS_ASCII" (C GHAP(1)) RETURNS INTEGER LANGUAGE DAVA PARAMETER 55

CREATE FUNCTION "APP". "NUCLEUS_MATCHES" (TEXT VARCHAR(2000), PATTERN VARCHAR(2000)) RETURNS 5

BBL Statements for tables

CREATE TABLE "APP". "DBS" ("DB_ID" BIGINT NOT NULL, "DESC" VARCHAR(4000), "DB_LOCATION_URI" VARS

CREATE TABLE "APP". "TBL_PRIVS" ("TBL_GRANT_ID" BIGINT NOT NULL, "CREATE_TIME" INTEGER NOT NULLS

AG Get Help ^O Write Out ^W Where IS ^K Cut Text ^J Justify ^C Cur Pos ^K Exit ^R Read File ^\ Replace ^\ Uncut Text ^T To Spell ^\ Go To Line
```

Then, run the following command from \$HIVE_HOME/bin

schematool -dbType derby -initSchema

10. Run the following command to start the HIVE shell: \$HIVE HOME/bin/hive

```
ysf@ubuntu: /usr/local/bin/hive-2.1.0/bin

File Edit View Search Terminal Help

ysf@ubuntu:/usr/local/bin/hive-2.1.0/bin$ hive

Logging initialized using configuration in jar:file:/usr/local/bin/hive-2.1.0/li
b/hive-common-2.1.0.jar!/hive-log4j2.properties Async: true

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, tez) or using Hive
1.X releases.
hive> show tables;
OK
Time taken: 1.617 seconds
hive>
```