

## Exp. No : 5

## HIVE Installation

## 1. Download and Extract apache hive 3.1.2

```

2024-09-14 18:01:33-- https://archive.apache.org/dist/hive/hive-3.1.2/apache-hive-3.1.2-bin.tar.gz
Resolving archive.apache.org (archive.apache.org)... 65.108.204.189, 2a01:f9f:1a:a084::2
Connecting to archive.apache.org (archive.apache.org)[65.108.204.189]: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%[=====] 265.98M  12.1MB/s   in 25s

2024-09-14 18:01:59 (10.4 MB/s) - 'apache-hive-3.1.2-bin.tar.gz' saved [278813748/278813748]

```

```

apache-hive-3.12.0-bin/licenses
apache-hive-3.12.0-bin/NOTICE
apache-hive-3.12.0-bin/README_NOTES.txt
apache-hive-3.12.0-bin/binary/package/licenses/asn-LICENSE
apache-hive-3.12.0-bin/binary/package/licenses/com.google.protobuf-LICENSE
apache-hive-3.12.0-bin/binary/package/licenses/com.intel.codec-LICENSE
apache-hive-3.12.0-bin/binary/package/licenses/com.sun.jersey-LICENSE
apache-hive-3.12.0-bin/binary/package/licenses/com.thoughtworks.paranamer-LICENSE
apache-hive-3.12.0-bin/binary/package/licenses/com.zentao.transaction.transaction-api-LICENSE
apache-hive-3.12.0-bin/binary/package/licenses/javalon-LICENSE
apache-hive-3.12.0-bin/binary/package/licenses/jline-LICENSE
apache-hive-3.12.0-bin/binary/package/licenses/org.apache.treelayout.core-LICENSE
apache-hive-3.12.0-bin/binary/package/licenses/org.antrp.LICENSE
apache-hive-3.12.0-bin/binary/package/licenses/org.apache.hadoop.LICENSE
apache-hive-3.12.0-bin/binary/package/licenses/org.apache.strut.stringtemplate-LICENSE
apache-hive-3.12.0-bin/binary/package/licenses/org.codehaus.janino-LICENSE
apache-hive-3.12.0-bin/binary/package/licenses/org.jamon.jamon-runtime-LICENSE
apache-hive-3.12.0-bin/binary/package/licenses/org.jruby.LICENSE
apache-hive-3.12.0-bin/binary/package/licenses/org.mozilla.rhino-LICENSE
apache-hive-3.12.0-bin/binary/package/licenses/org.postgresql-LICENSE
apache-hive-3.12.0-bin/binary/package/licenses/sql-line-LICENSE
apache-hive-3.12.0-bin/examples/files/2000_cola_data.csv
apache-hive-3.12.0-bin/examples/files/alltypes.txt
apache-hive-3.12.0-bin/examples/files/fcol_data.txt
apache-hive-3.12.0-bin/examples/files/flles/coda_data.txt
apache-hive-3.12.0-bin/examples/files/agg_8-pl.txt
apache-hive-3.12.0-bin/examples/files/agg_9-pl.txt
apache-hive-3.12.0-bin/examples/files/agg_8-pl.txt
apache-hive-3.12.0-bin/examples/files/alltypes.txt
apache-hive-3.12.0-bin/examples/files/alltypes2.log
apache-hive-3.12.0-bin/examples/files/arc4_compress.log
apache-hive-3.12.0-bin/examples/files/archive_corrupt.rc
apache-hive-3.12.0-bin/examples/files/archive_table.txt
apache-hive-3.12.0-bin/examples/files/arvo_charvarchar.txt
apache-hive-3.12.0-bin/examples/files/arvo_data.txt
apache-hive-3.12.0-bin/examples/files/arvo_historical_timestamp_legacy.arvo
apache-hive-3.12.0-bin/examples/files/arvo_historical_timestamp_new.arvo
apache-hive-3.12.0-bin/examples/files/arvo_timestamp.txt
apache-hive-3.12.0-bin/examples/files/arvo_timestamp_inlist.pquet
apache-hive-3.12.0-bin/examples/files/arvo_timestampingroupinlist.pquet
apache-hive-3.12.0-bin/examples/files/binary.txt
apache-hive-3.12.0-bin/examples/files/bool.txt
apache-hive-3.12.0-bin/examples/files/cbo1.txt
apache-hive-3.12.0-bin/examples/files/cbo1_t.txt
apache-hive-3.12.0-bin/examples/files/cbo1_tx.txt
apache-hive-3.12.0-bin/examples/files/cbo2.txt
apache-hive-3.12.0-bin/examples/files/cbo2_tx.txt
apache-hive-3.12.0-bin/examples/files/cbo3.txt
apache-hive-3.12.0-bin/examples/files/cbo3_tx.txt
apache-hive-3.12.0-bin/examples/files/char_varchar_utf.txt
apache-hive-3.12.0-bin/examples/files/complex_seq

```

[illegible]

## 2. Update HIVE Configurations in .bashrc

```

{
export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
export HADOOP_HOME=/home/hadoop/hadoop
export HADOOP_INSTALL=$HADOOP_HOME
export HADOOP_MAPRED_HOME=$HADOOP_HOME
export HADOOP_COMMON_HOME=$HADOOP_HOME
export HADOOP_HDFS_HOME=$HADOOP_HOME
export HADOOP_YARN_HOME=$HADOOP_HOME
export HADOOP_COMMON_LIB_NATIVE_DIR=$HADOOP_HOME/lib/native
export PATH=$PATH:$HADOOP_HOME/sbin:$HADOOP_HOME/bin
export HADOOP_OPTS="-Djava.library.path=$HADOOP_HOME/lib/native"
export HADOOP_STREAM=/home/hadoop/hadoop/share/hadoop/tools/lib/hadoop-streaming-3.3.6.jar
  PIG settings
export PIG_HOME=/home/hadoop/pig
export PATH=$PATH:$PIG_HOME/bin
export PIG_CLASSPATH=$PIG_HOME/conf:$HADOOP_INSTALL/etc/hadoop/
export PIG_CONF_DIR=$PIG_HOME/conf
export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
export PIG_CLASSPATH=$PIG_CONF_DIR:$PATH
  PIG settings end
export HIVE_HOME=/home/hadoop/apache-hive-3.1.2-bin
export PATH=$PATH:$HIVE_HOME/bin
export HADOOP_USER_CLASSPATH_FIRST=true
}

Have modified buffer?
Y Yes
N No      [AC] Cancel

```

### 3. 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]
Starting datanodes
Starting secondary namenodes [redacted]
Starting resourcemanager
Starting nodemanagers

```

### 4. \$HIVE\_HOME/bin

```

SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/hadoop/hive/lib/log4j-slf4j-impl-2.10.0.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/hadoop/hadoop/share/hadoop/common/lib/slf4j-reload4j-1.7.36.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.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

```

## 5. SQL commands

```
hive> CREATE VIEW myview AS SELECT name, id FROM finance_table;
OK
Time taken: 0.498 seconds
hive> SELECT * FROM myview;
OK
Alice    1
Bob      2
Charlie  3
Time taken: 0.495 seconds, Fetched: 3 row(s)
hive> 
```

```
hive> DESCRIBE finance_table;
OK
id                int
name              string
Time taken: 0.169 seconds, Fetched: 2 row(s)
hive> ALTER TABLE finance_table ADD COLUMNS (age INT);
OK
Time taken: 0.338 seconds
hive> 
```

```
Time taken: 0.155 seconds
hive> quit
> quit;
NoViableAltException(24@[])
    at org.apache.hadoop.hive.ql.parse.HiveParser.statement(HiveParser.java:1387)
    at org.apache.hadoop.hive.ql.parse.ParseDriver.parse(ParseDriver.java:220)
    at org.apache.hadoop.hive.ql.parse.ParseUtils.parse(ParseUtils.java:74)
    at org.apache.hadoop.hive.ql.parse.ParseUtils.parse(ParseUtils.java:67)
    at org.apache.hadoop.hive.ql.Driver.compile(Driver.java:616)
    at org.apache.hadoop.hive.ql.Driver.compileInternal(Driver.java:1826)
    at org.apache.hadoop.hive.ql.Driver.compileAndRespond(Driver.java:1773)
    at org.apache.hadoop.hive.ql.Driver.compileAndRespond(Driver.java:1768)
    at org.apache.hadoop.hive.ql.rexec.ReExecDriver.compileAndRespond(ReExecDriver.java:126)
    at org.apache.hadoop.hive.ql.rexec.ReExecDriver.run(ReExecDriver.java:214)
    at org.apache.hadoop.hive.cli.CliDriver.processLocalCmd(CliDriver.java:239)
    at org.apache.hadoop.hive.cli.CliDriver.processCmd(CliDriver.java:188)
    at org.apache.hadoop.hive.cli.CliDriver.processLine(CliDriver.java:402)
    at org.apache.hadoop.hive.cli.CliDriver.executeDriver(CliDriver.java:821)
    at org.apache.hadoop.hive.cli.CliDriver.run(CliDriver.java:759)
    at org.apache.hadoop.hive.cli.CliDriver.main(CliDriver.java:683)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:498)
    at org.apache.hadoop.util.RunJar.run(RunJar.java:328)
    at org.apache.hadoop.util.RunJar.main(RunJar.java:241)
FAILED: ParseException line 1:0 cannot recognize input near 'quit' 'quit' '<EOF>'
hive> quit;
```