**Hive Components**

**1) CLI :-** Command Line Interface. It is the most common way of interacting with Hive. (Hive shell) This is the default service.

**2) HWI :-** Hive Web Interface. It is an alternative to the shell for interacting with hive through web browser.

**3) JDBC/ODBC/Thrift Server :-** These are provide programmatic access to Hive server. Applications using Thrift, JDBC, and ODBC connectors need to run a Hive server to communicate with Hive. HIVE\_PORT environment variable need to be specified with the available port(defaults to 10,000) number to let the server listen on.

**4) Driver :-** Driver compiles the input commands and queries, optimizes the  
computation required, and executes the required steps with MapReduce jobs.

**5) Metastore :-** The metastore is the central repository of Hive metadata. The metastore is divided into two pieces: a service and the backing store for the data. By default, the metastore is run in the same process as the Hive service.  Using this  
service, it is possible to run the metastore as a standalone (remote) process. Set the METASTORE\_PORT environment variable to specify the port the server will listen on.

**6) Job Tracker :-** Hive communicates with the Job Tracker to initiate the MapReduce  jobs. Hive does not have to be running on the same master node with the JobTracker.

**7) Namenode :-** The data files to be processed are in HDFS, which is managed by the NameNode.