

**Hadoop ECO System 2.0** ..... 3

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가 , UI, , C++, API  
(Spark), (Storm), (Elastic Search), (Cassandra),  
(Jenkins)

- HBase(<http://hbase.apache.org>) H (HBase) HDFS  
(BigTable) 가 가 ,  
! , 2012 가  
HBase

- Kudu(<http://getkudu.io>) (Kudu)  
HDFS (Parquet), RC, ORC  
HDFS 가 가 H , 가  
, 2015

- Chukwa(<http://chukwa.apache.org>) (Chuckwa) HDFS  
HDFS (agent) , HDFS  
100 (collector)가

- Flume(<http://flume.apache.org>) (Flume) 가 ,  
가 ,

- Scribe(<https://github.com/facebook/scribe>) , Chukwa  
HDFS  
HDFS

JNI(Java Native Interface)

- Sqoop(<http://sqoop.apache.org>) (Sqoop) , 2012 4  
Sqoop HDFS, RDBMS, DW, NoSQL  
MySQL, (PostgreSQL) , MS-SQL, DB2 RDBMS  
RDBMS

- Hiho(<https://github.com/sonalgoyal/hiho>) ,  
(GitHub) 가 SQL , JDBC  
MySQL

- Kafka(<http://kafka.apache.org>) (Kafka)

. 2011  
 가 (publish)- (subscribe)  
 , 2012  
 (Fault Tolerant)  
 1 1

- Pig(<http://pig.apache.org>) (Pig)  
 (Pig Latin)  
 API SQL . SQL  
 SQL 가 .

- Mahout(<http://mahout.apache.org>) (Mahout)  
 (classification), (clustering),  
 (Recommenders/collaborative filtering), (Pattern Mining), (Regression),  
 (Dimension reduction), (Evolutionary Algorithms)  
 Mahout 가 .

- Spark(<http://spark.apache.org>) (Spark)  
 , SQL ,  
 . 2009 AMPLab , 2013  
 , 2014 가 가 .

- Impala(<http://impala.io>) (Impala)  
 , C++  
 HiveQL , SQL  
 2015 .

- Presto(<https://prestodb.io>) (Presto)  
 , SQL  
 10 ,

- Hive(<http://hive.apache.org>) (Hive)  
 . SQL HiveQL  
 가  
 . HiveQL .

- Tajo(<http://tajo.apache.org>) (Tajo)  
 . 2013 , 2014  
 4  
 HiveQL SQL . HDFS, AWS S3, H  
 , DBMS SQL  
 가 1.5 ~ 10 .

- Oozie(<http://oozie.apache.org>) (Oozie)
- Airflow(<http://nerds.airbnb.com/airflow>) (Airflow) , DBMS
- Azkaban(<https://azkaban.github.io>) (Azkaban) UI
- Nifi(<https://nifi.apache.org>) (Niagarafiles, Nifi) UI (NSA) , NSA TTP
- Zeppelin (<https://zeppelin.incubator.apache.org>) (Zeppelin) 가 (iPython) (Notebook) , 가 (Flink), DBMS , 2013 , 2014
- Avro(<http://avro.apache.org>) RPC(Remote Procedure Call) . JSON (Thrift), (Protocol Buffer)
- Thrift(<http://thrift.apache.org>) (Thrift) RPC C++ , C++ , C#, Perl, PHP, , Erlang, Go, Node.js

: <http://blrunner.com/99> [BLRUNNER.COM]

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