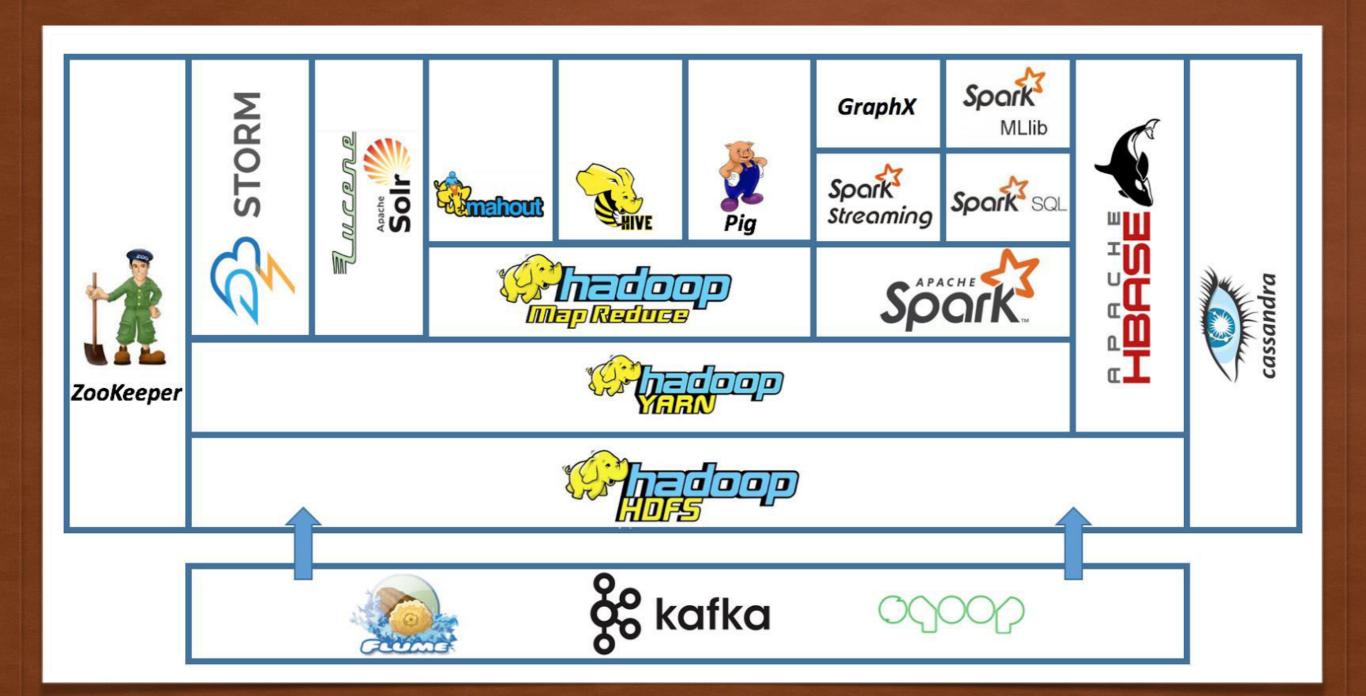
HADOOP ECOSYSTEM BASICS



HADOOP HISTORY

- 2002 запуск проекта Nutch
- 2003 публикация с описанием GFS
- 2004 создание NDFS (Nutch Distributed File System)
- 2004 публикация Google и MapReduce
- 2005 реализация MR в Nutch
- 2006 выделение проекта Hadoop
- 2008 выход Hadoop в лидеры ASF (Apache Software Foundation)
- 2008 Apache Pig
- 2010 выделение проекта HBase (ноябрь Facebook messages)
- 2012 Apache Impala
- 2012 Apache Scoop
- 2012 Apache Accumulo
- 2013 Apache Kafka
- 2013 Apache YARN
- 2013 Apache Hive
- 2013 Apache Spark (начало работы в 2009)

HADOOP WORLD 1.0



Ambari

Provisioning, Managing and Monitoring Hadooop Clusters





Coordination





















Sqoop

Data Exchange



Workflow

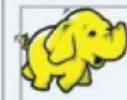
Pig Scripting



Machine Learning

SQL Query

Columnar Store Hbase



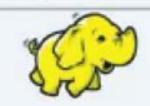
YARN Map Reduce v2

Distributed Processing Framework



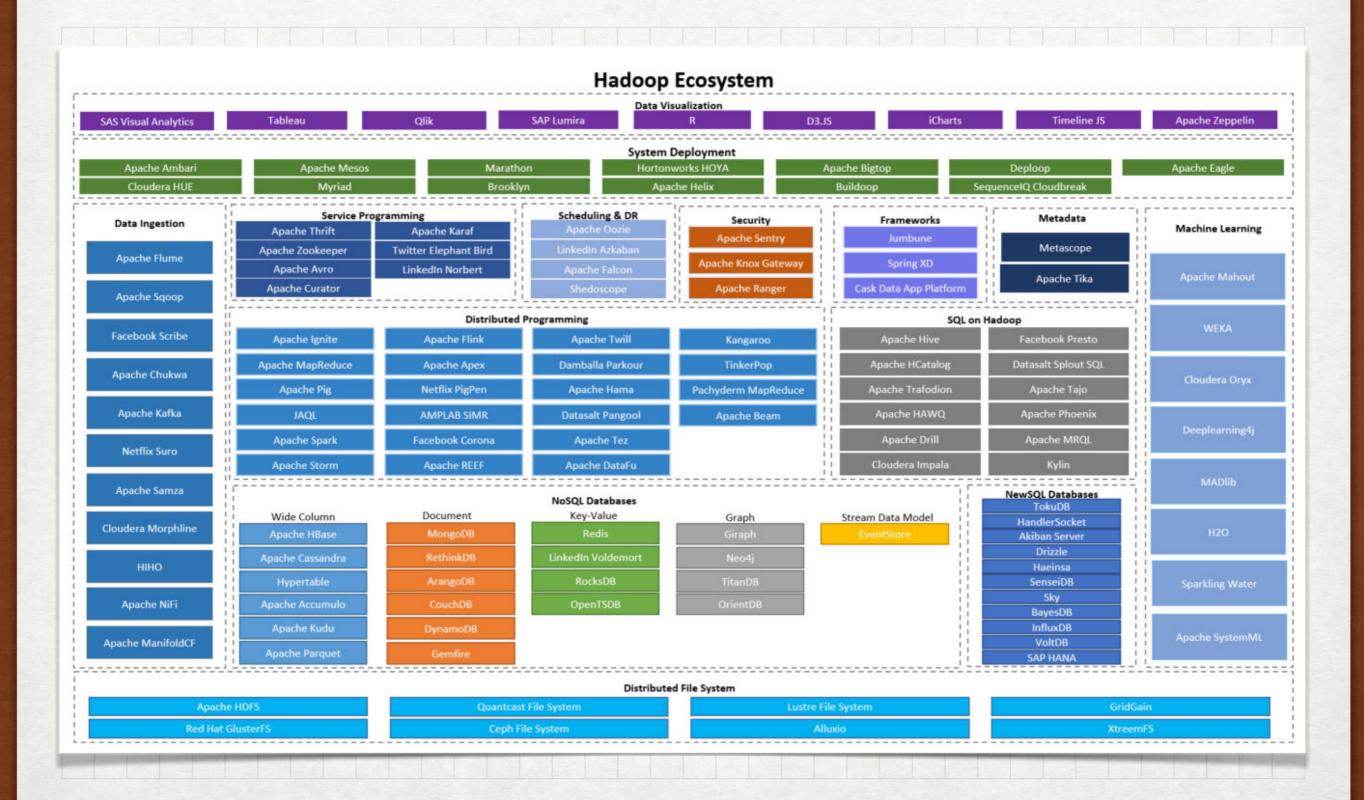
HDFS

Hadoop Distributed File System



Log Collector Zookeeper Flume

HADOOP WORLD 2017



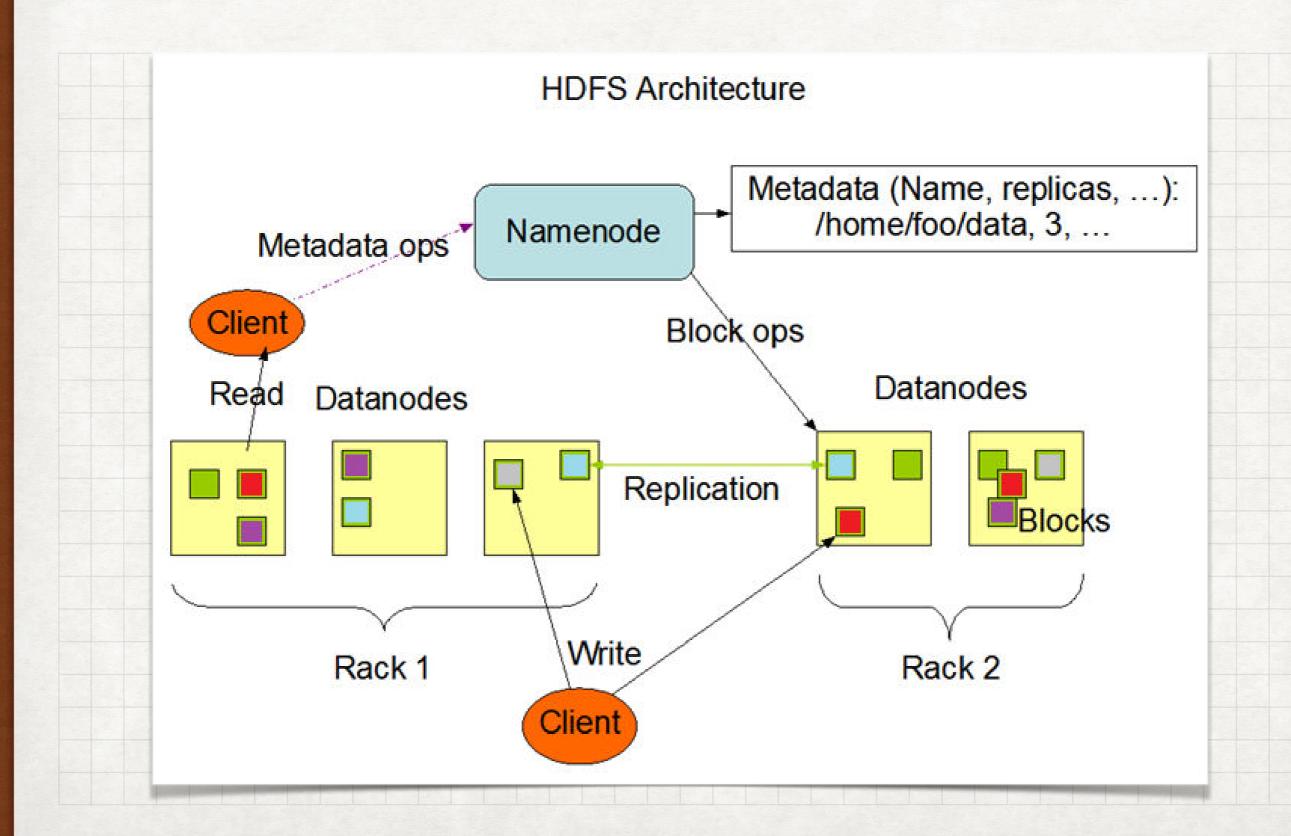
HADOOP BASICS

1. Hadoop Distributed File System (HDFS):

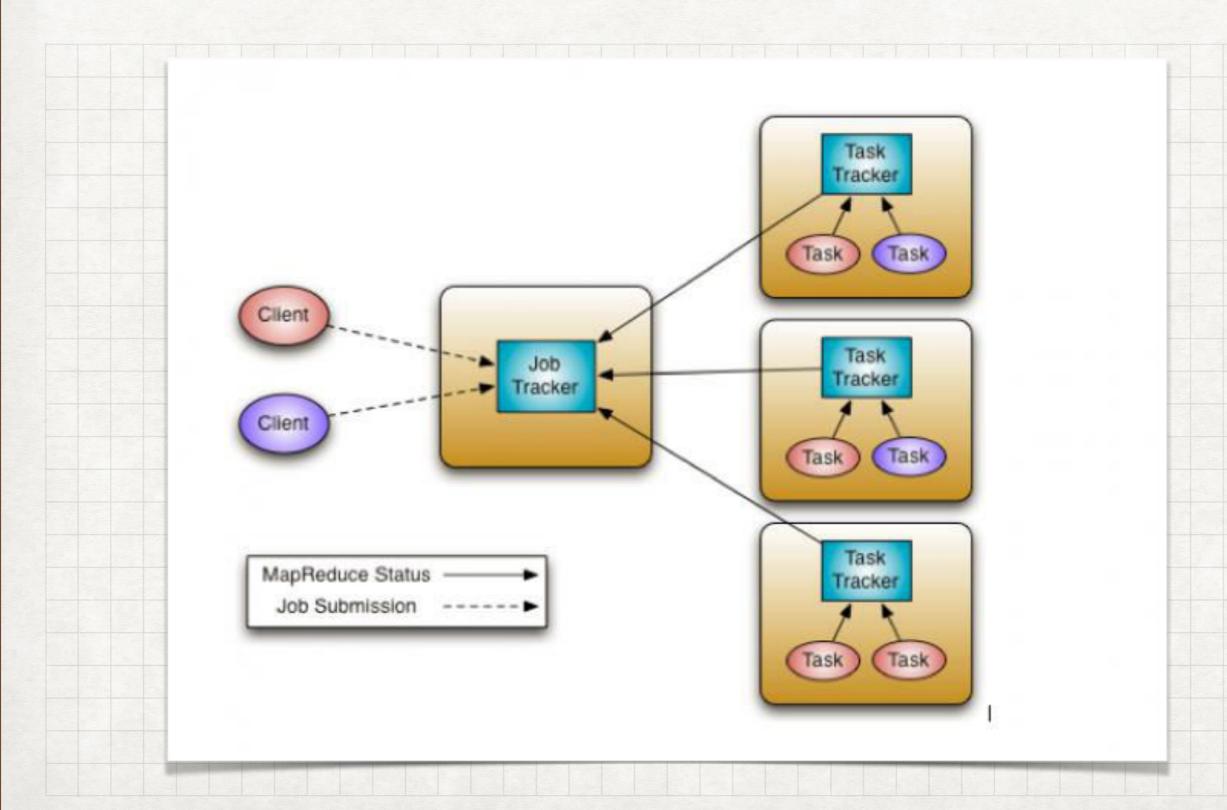
2. Hadoop YARN

3. Hadoop MapReduce

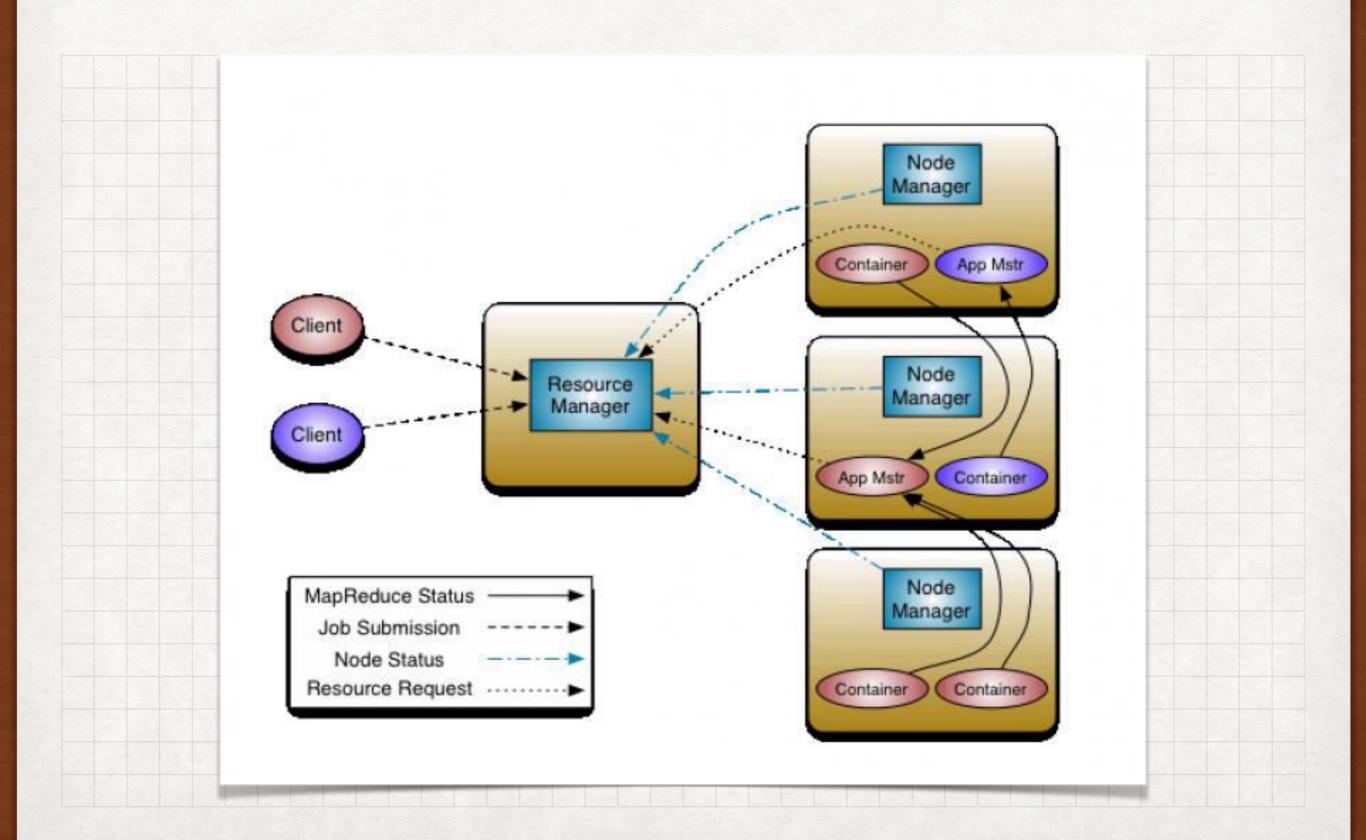
HDFS BASICS



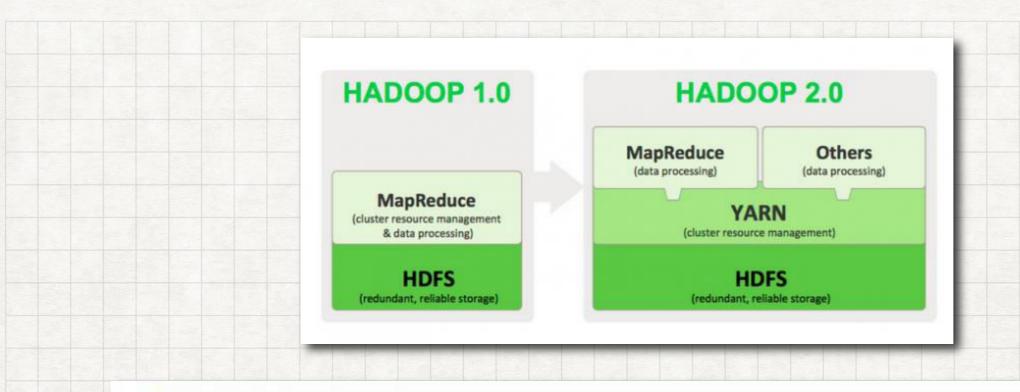
MR 1

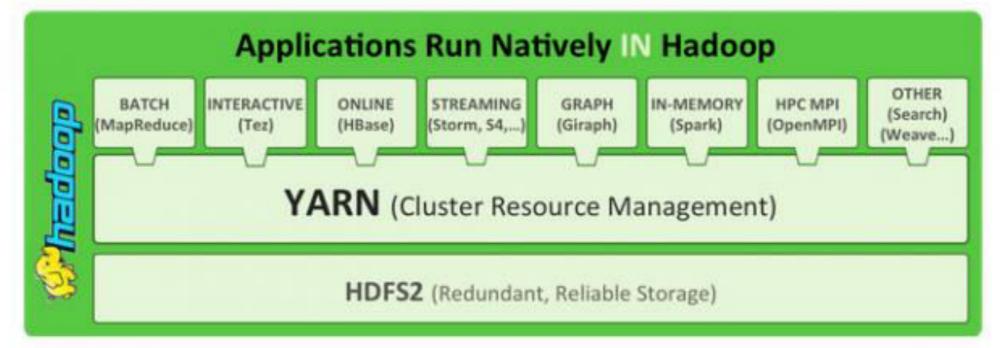


YARN (MR 2)

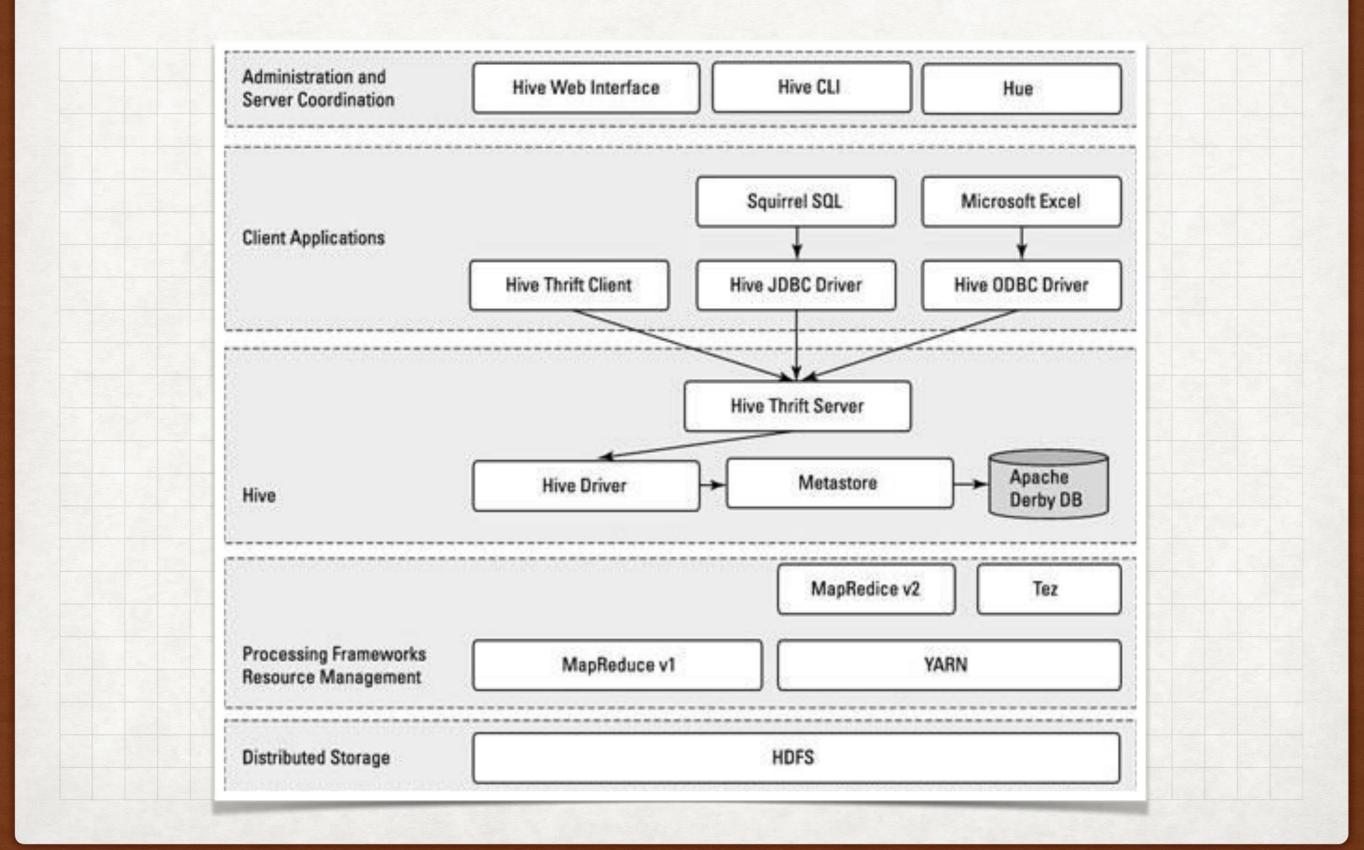


YARN

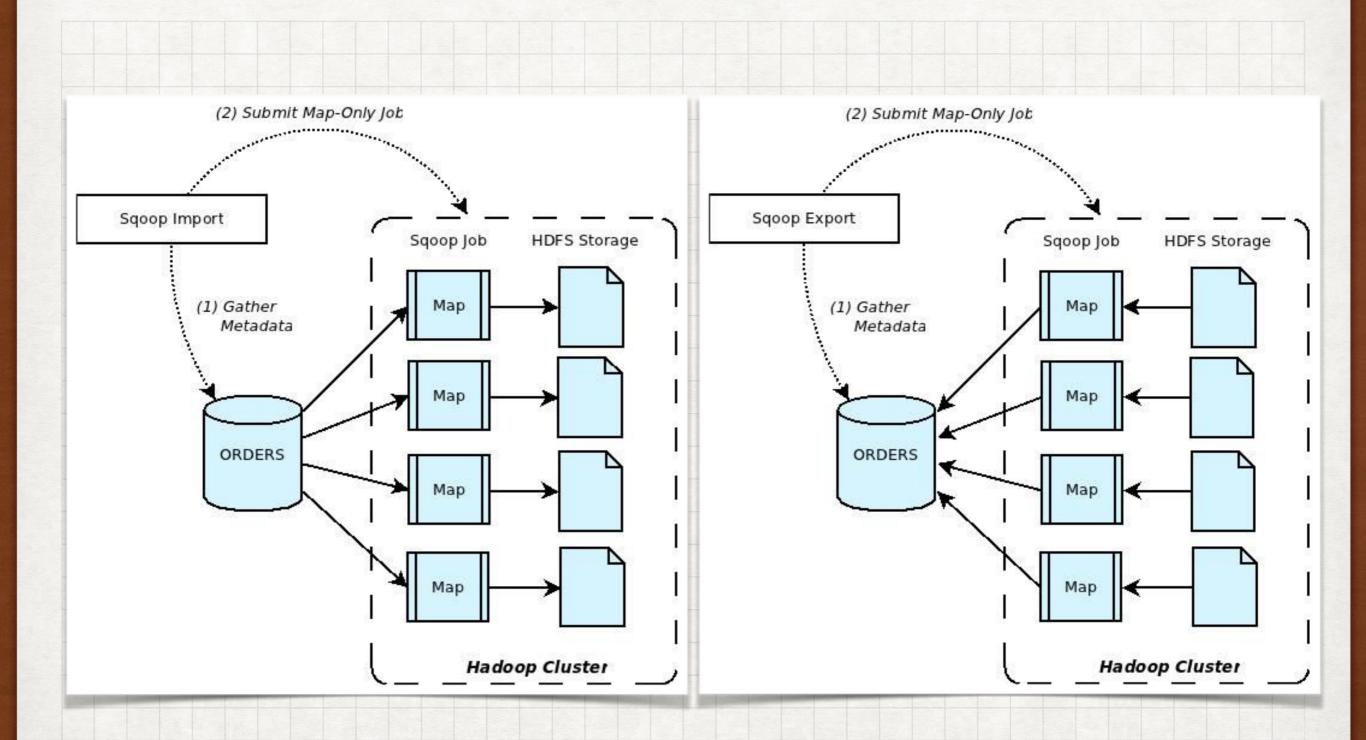




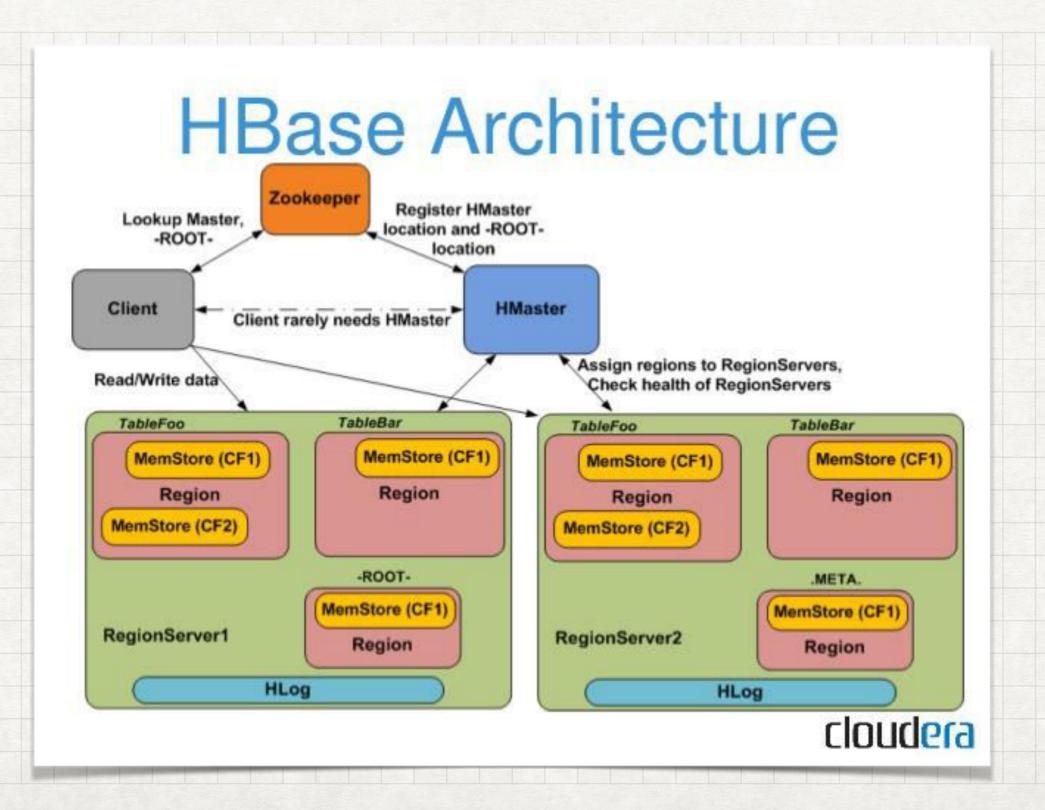
HIVE BASICS



SQOOP BASICS



HBASE BASICS



SPARK BASICS

