

# Oracle BigData SQL

孟硕 - OARDC





# 目录

- 大数据
- 数据访问接口之间的鸿沟
- 统一数据查询
- **Oracle Big Data SQL**
- **Hands-on Lab**
- 结束

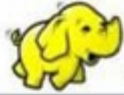
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Big data is like teenage sex:  
everyone talks about it,  
nobody really knows how to do it,  
everyone thinks everyone else is  
doing it, so everyone claims they  
are doing it...

(Dan Ariely)





# Apache Hadoop Ecosystem

**Ambari**

Provisioning, Managing and Monitoring Hadoop Clusters



**Sqoop**  
Data Exchange



**Zookeeper**  
Coordination



**Oozie**  
Workflow



**Pig**  
Scripting



**Mahout**  
Machine Learning

**R Connectors**  
Statistics



**Hive**  
SQL Query



**Hbase**  
Columnar Store



**Flume**  
Log Collector



**YARN Map Reduce v2**  
Distributed Processing Framework

**HDFS**

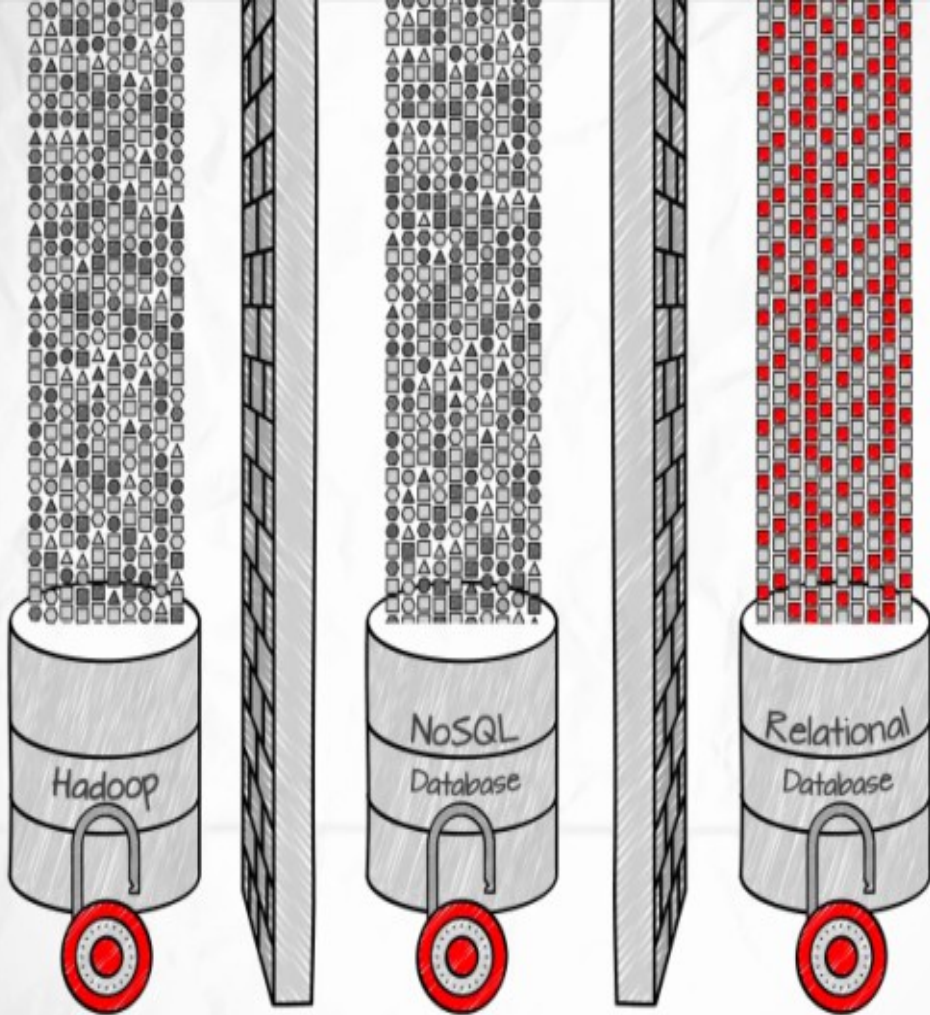
Hadoop Distributed File System



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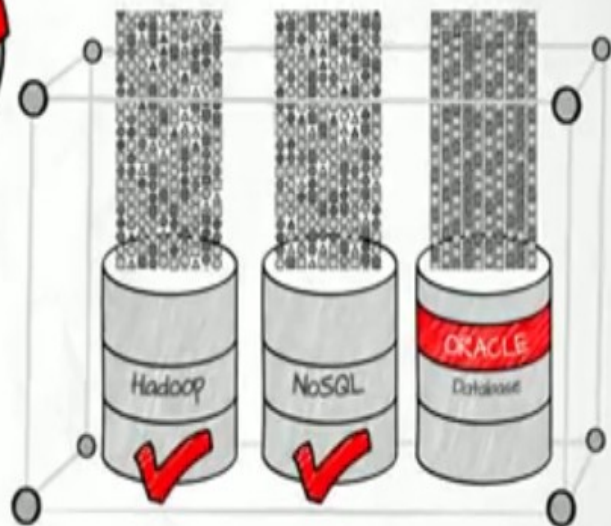




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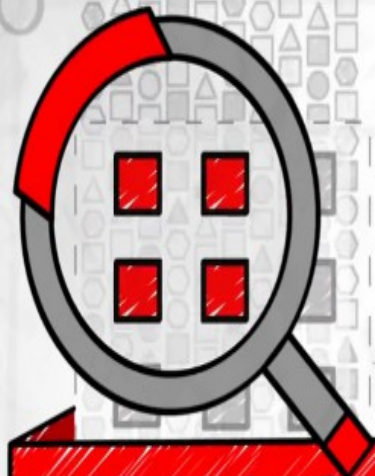
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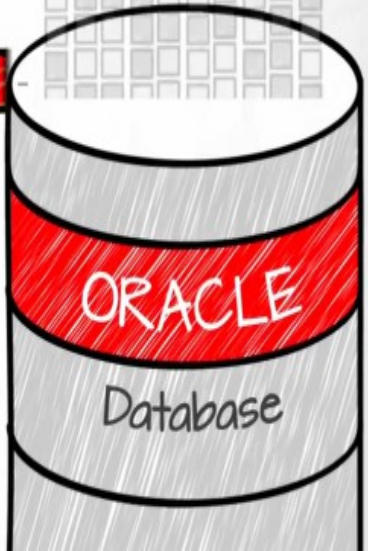
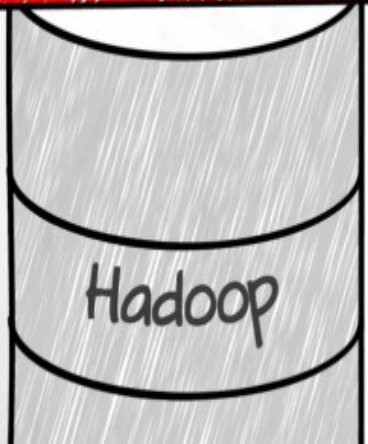


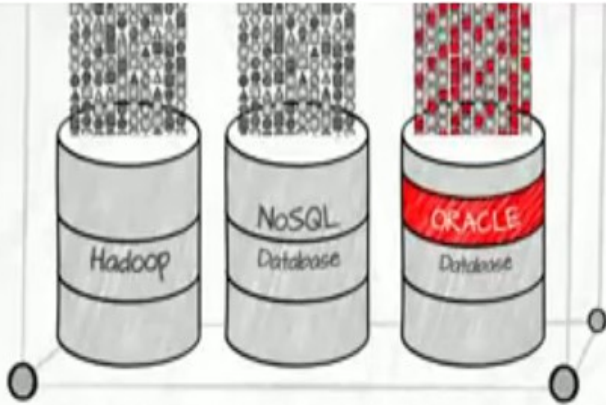
Big Data Management System





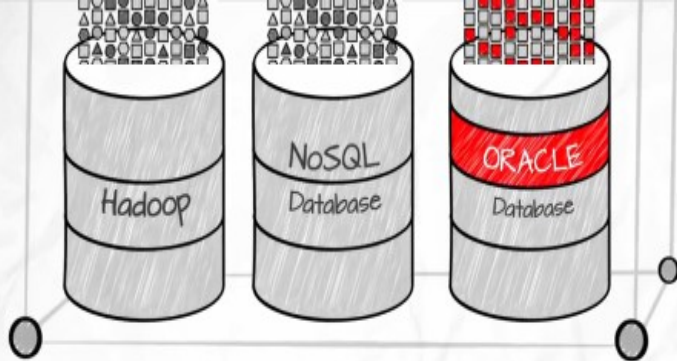
Smart Scan





Big Data Management System





## Big Data Management System

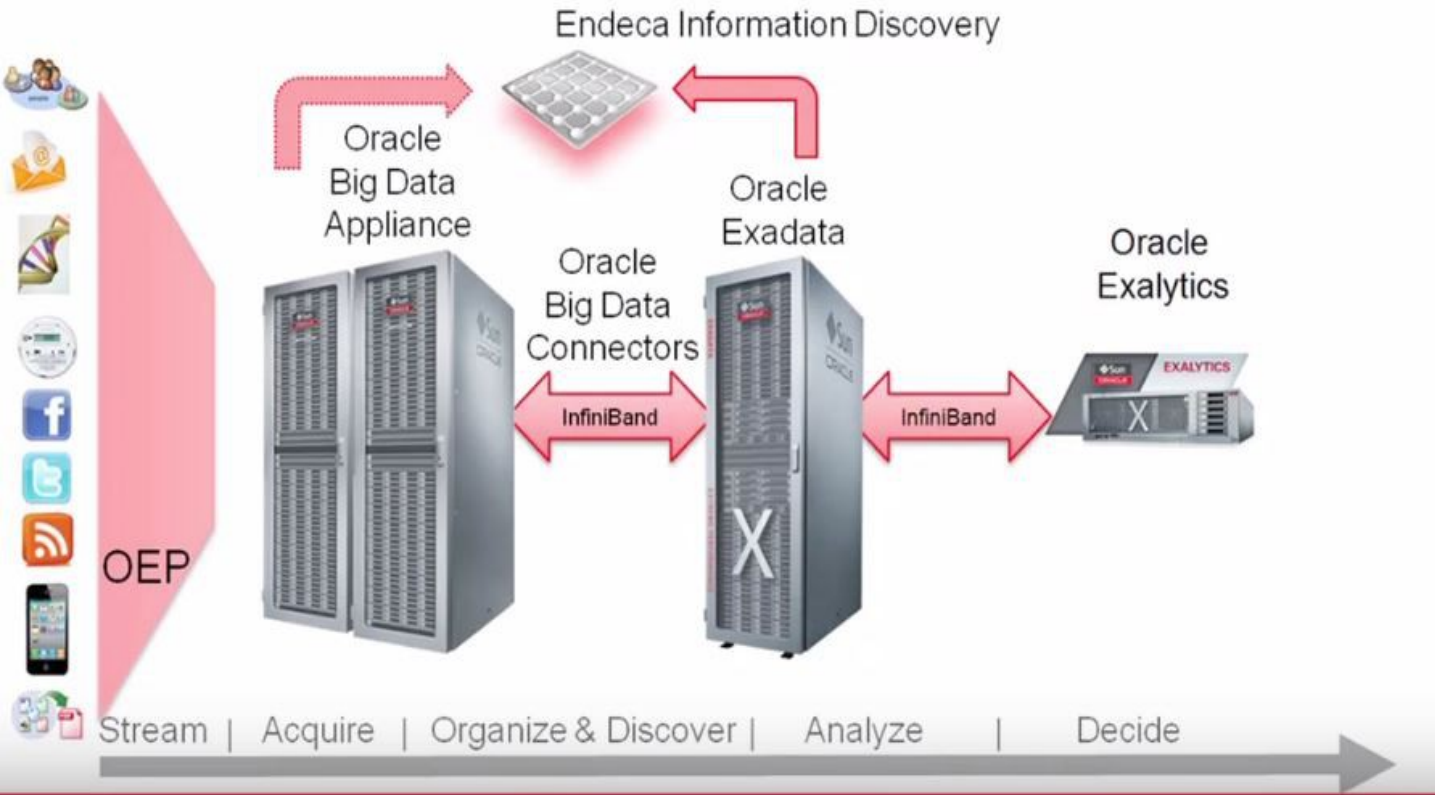




- ✓ Existing skills
- ✓ Integrate Big Data
- ✓ Keep it secure



# Oracle's Big Data Solution

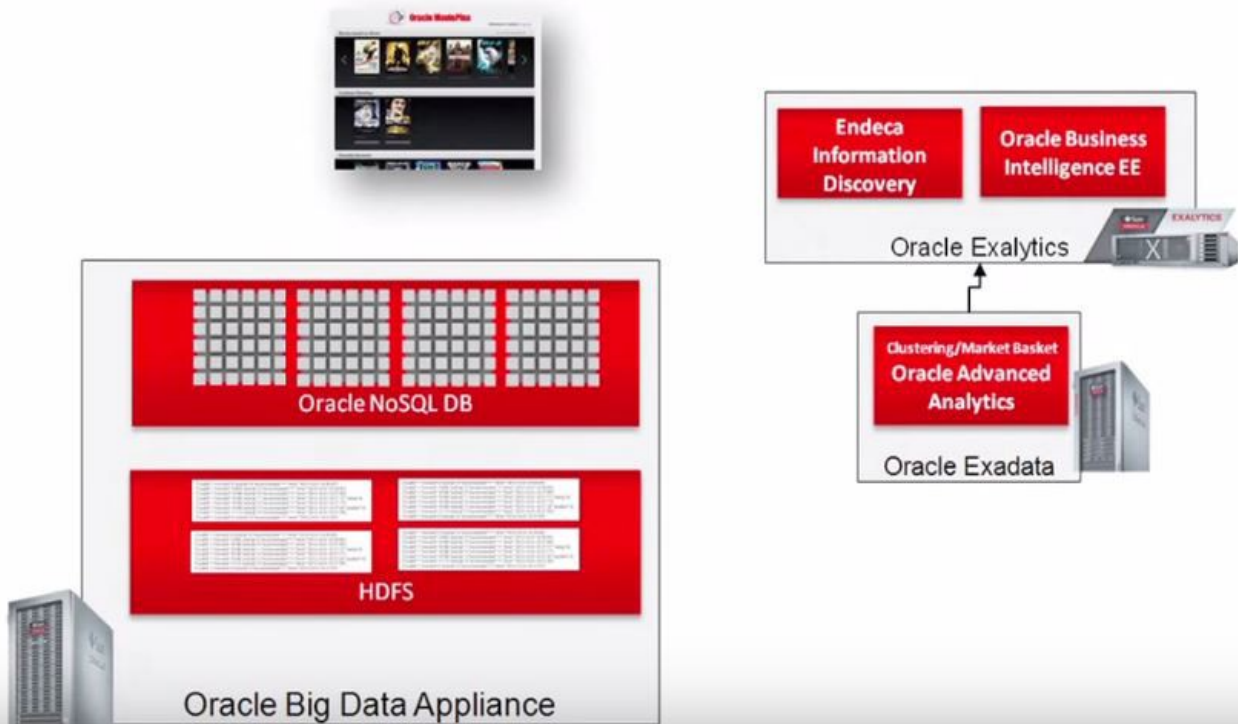


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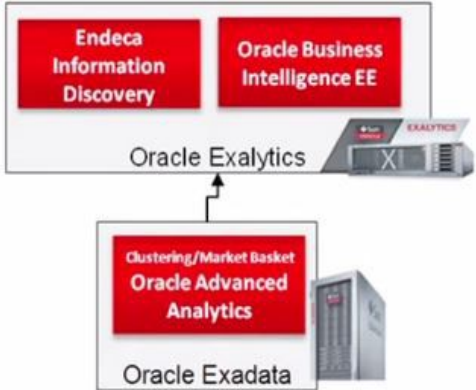
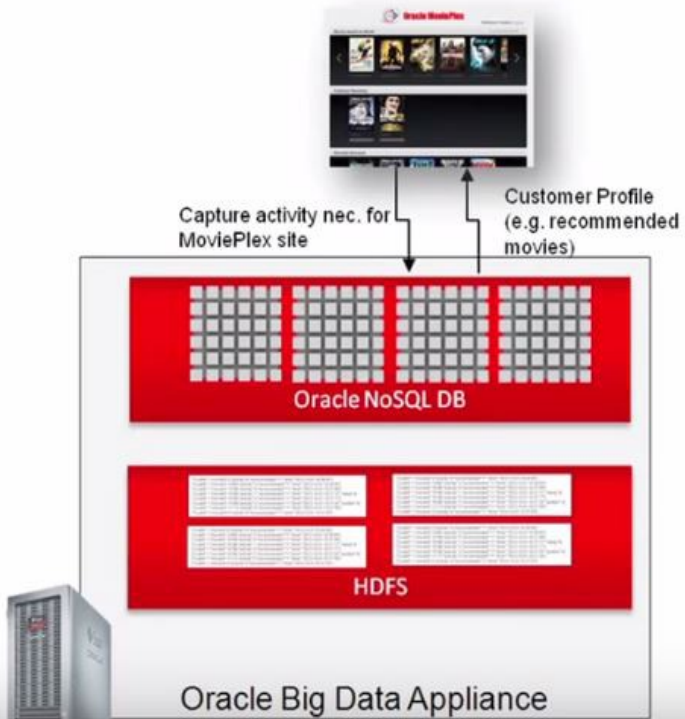


# MoviePlex Architecture

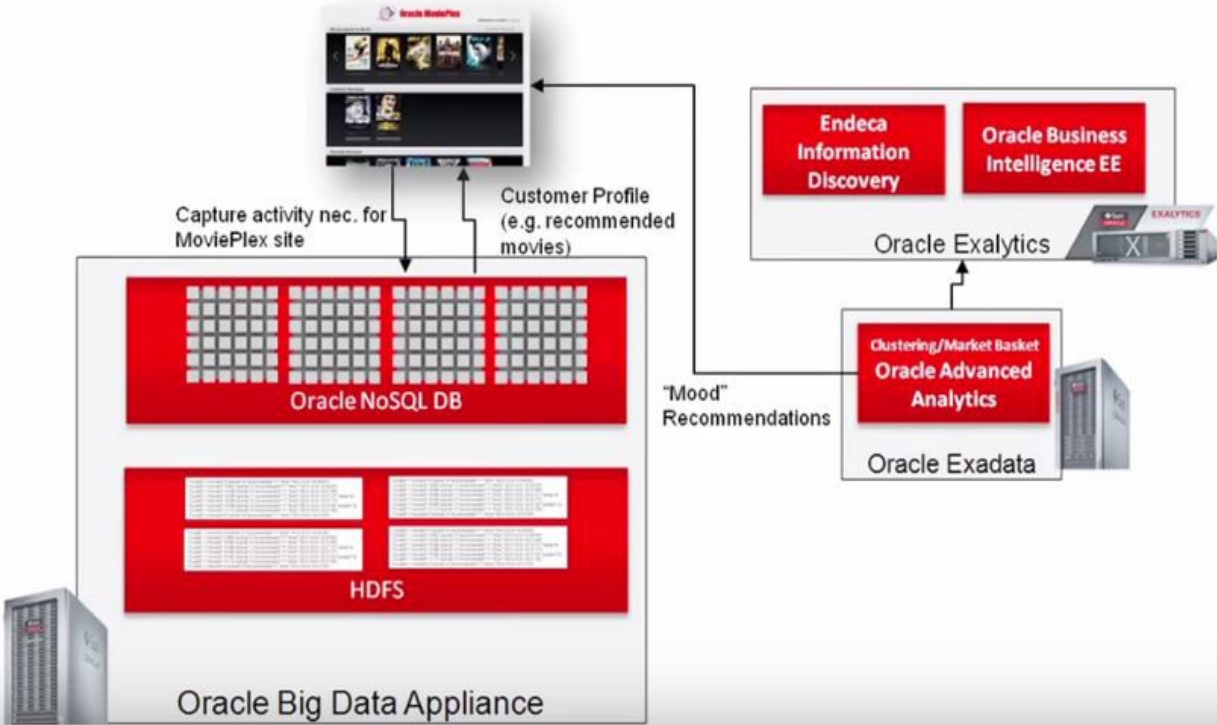




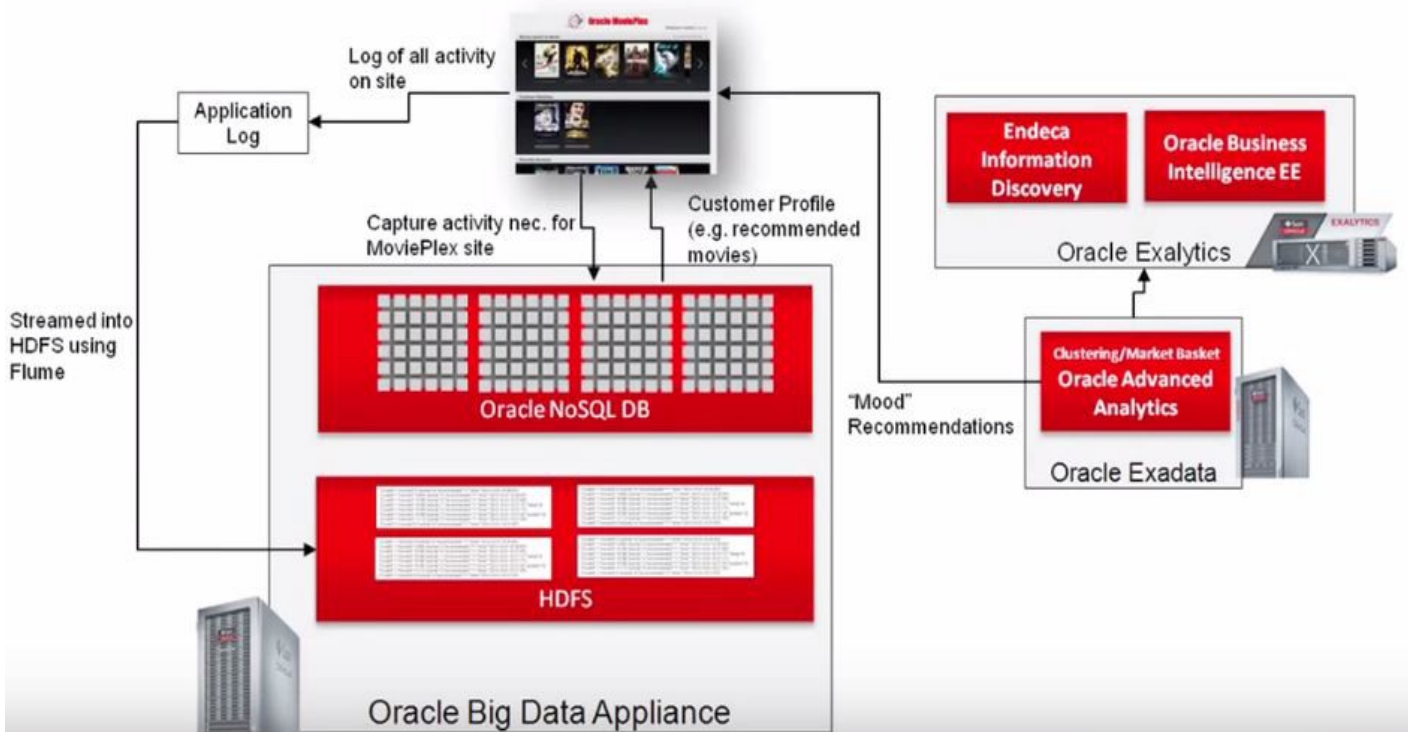
# MoviePlex Architecture



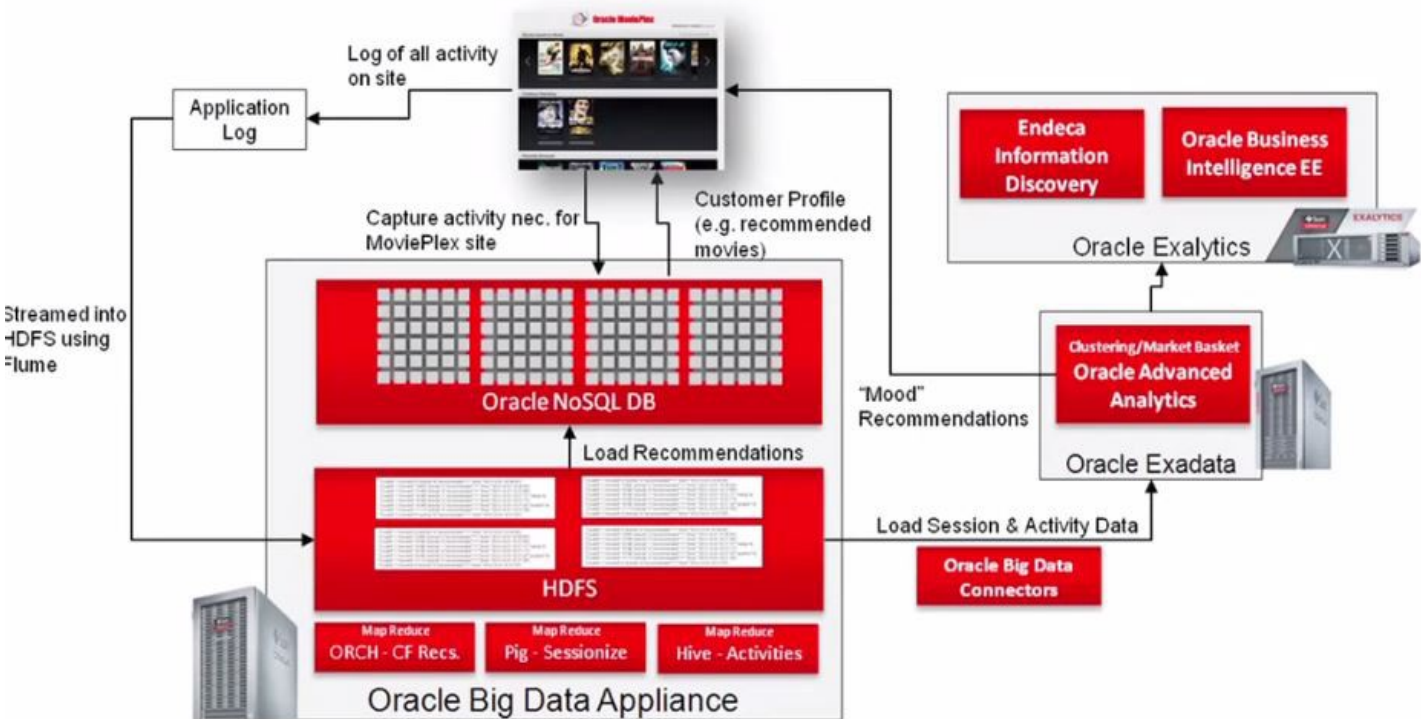
# MoviePlex Architecture



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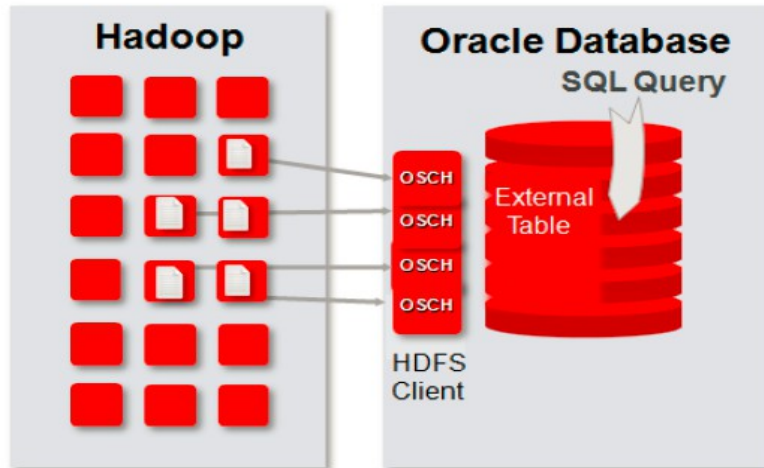


# MoviePlex Architecture



# OLH and OSCH

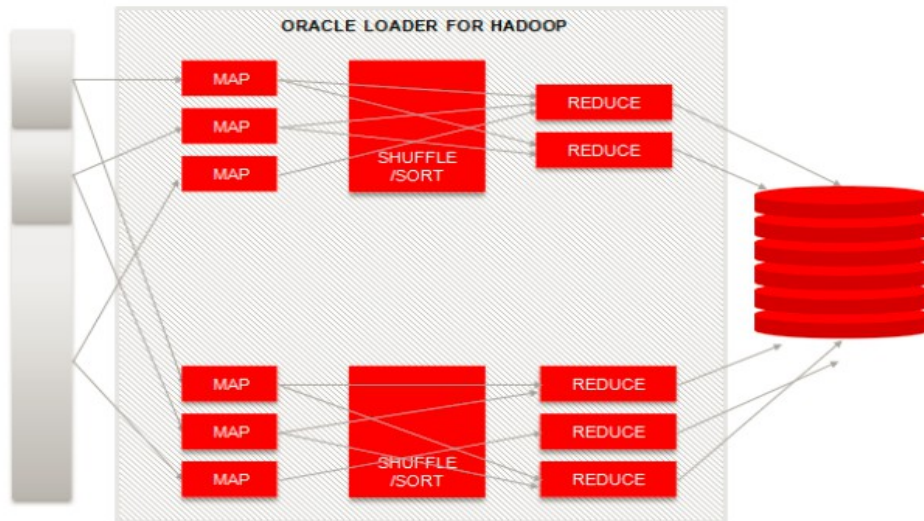
OSCH - Oracle SQL Connector for HDFS





# OLH and OSCH

OLH - Oracle Loader for Hadoop



# 一体机硬件配置

- 硬件部分
- 18 Sun X4270 M2 服务器
- 每台2 CPUs \* 6核
- 每台48 GB内存(可扩展)
- 12 \* 3TB 磁盘空间
  
- 网络部分
- 40Gb InfiniBand
- 10Gb 以太网

Raw Storage: 648T

Core Count: 216核

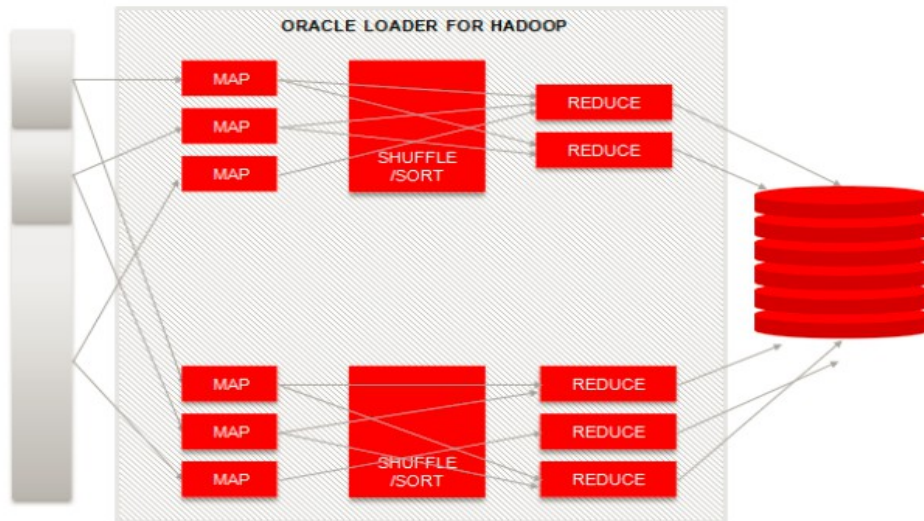
Mem Count: 864G – 2592G





# OLH and OSCH

OSCH - Oracle SQL Connector for HDFS



+ Overview

+ Part 1 - Configuring Oracle Big Data SQL

+ Part 2 - Create Oracle Table Over Application Log

+ Part 3 - Leverage the Hive Metastore to Access Data in Hadoop & Oracle NoSQL Database

+ Part 4 - Applying Oracle Database Security Policies Across the Big Data Platform

+ Part 5 - Using Oracle Analytic SQL Across All Your Data

+ Part 6 - Introduction to SQL Pattern Matching

+ Part 7 - Checking the Pattern Matching Process

+ Part 8 - Creating a More Useful Data Set

+ Part 9 - Other Useful 12c Analytical SQL Features

+ Summary

THANKS

