



**Oracle BigData SQL**

孟硕 - OARDC



# Oracle技术嘉年华

Oracle Technology Carnival 2015

稳健•高效•云端 - 数据技术最佳实践





# 目 录

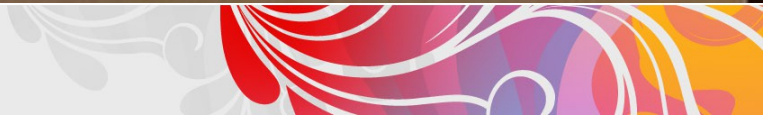
- 大数据
- 数据访问接口之间的鸿沟
- 统一数据查询
- **Oracle Big Data SQL**
- **Hands-on Lab**
- 结束

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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



**Scoop**  
Data Exchange



**Zookeeper**  
Coordination



**Oozie**  
Workflow



**Pig**  
Scripting



**Mahout**  
Machine Learning

**R Connectors**  
Statistics



**Hive**  
SQL Query



**Hbase**  
Columnar Store



**Flume**  
Log Collector



**HDFS**

Hadoop Distributed File System

**YARN Map Reduce v2**

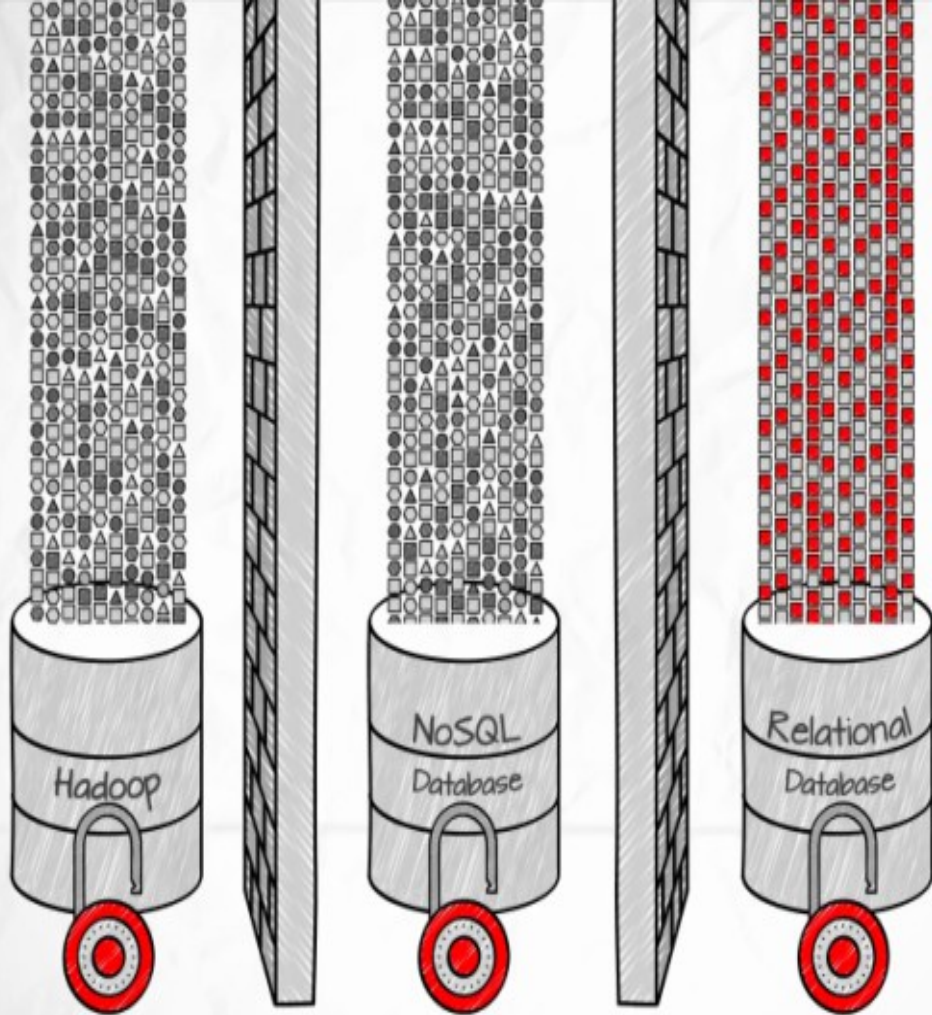
Distributed Processing Framework



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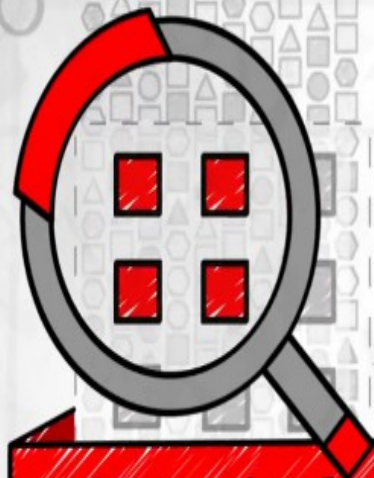
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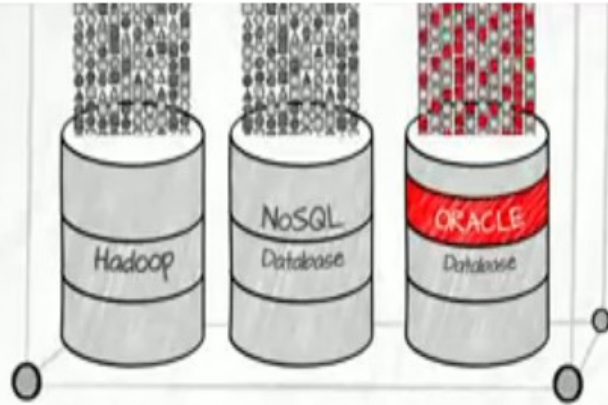
Smart Scan

Hadoop

NoSQL

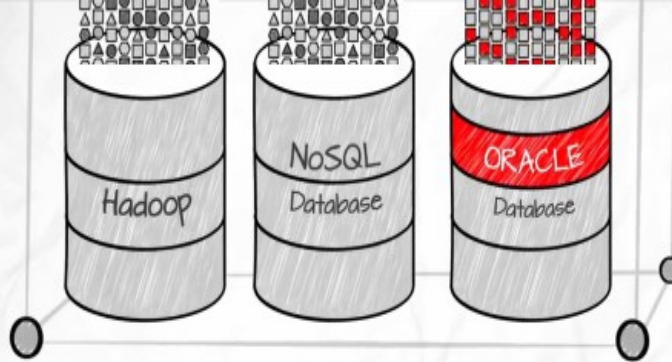
ORACLE

Database



Big Data Management System





Big Data Management System

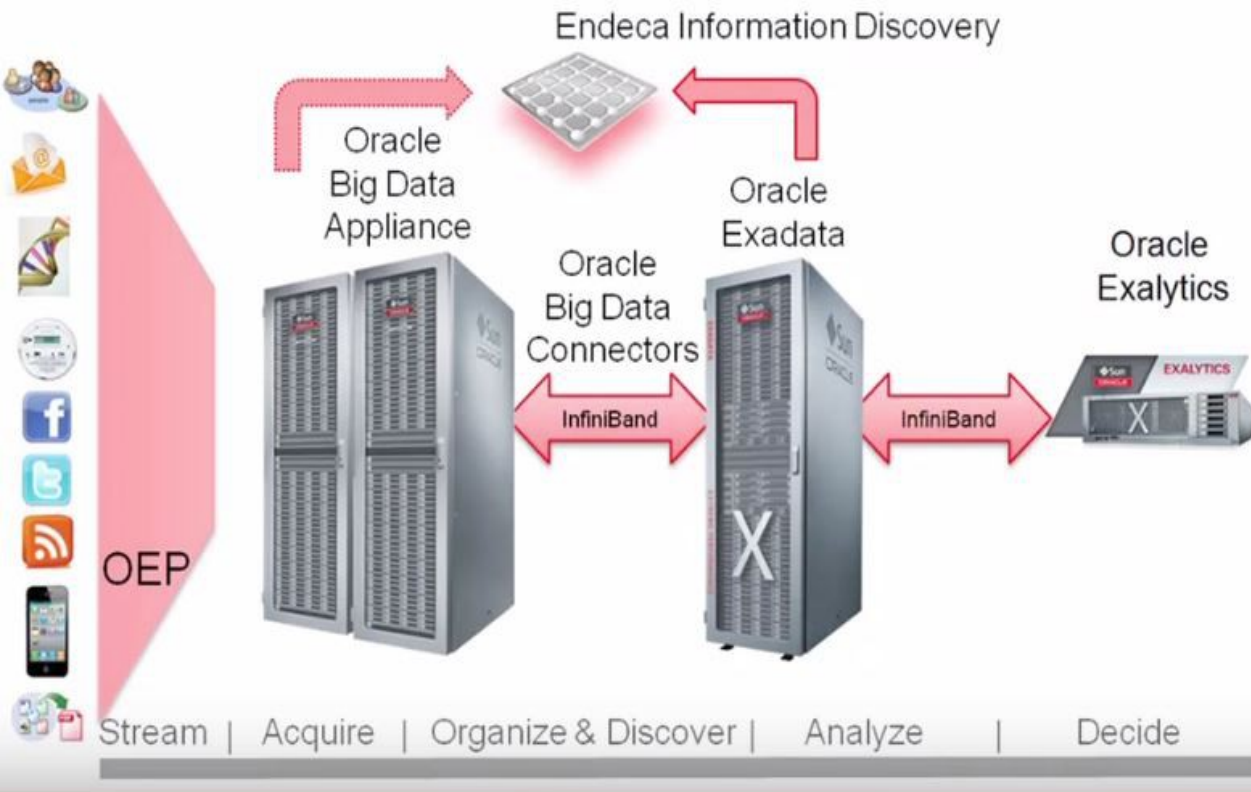




- ✓ Existing skills
- ✓ Integrate Big Data
- ✓ Keep it secure



# Oracle's Big Data Solution

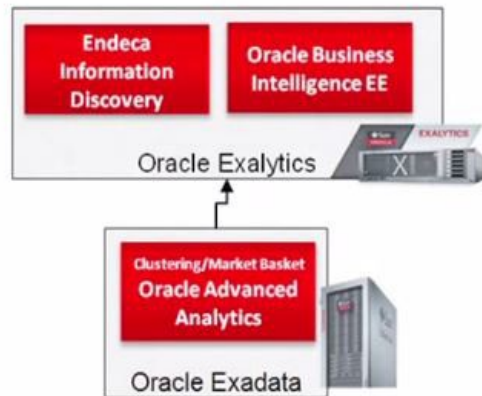




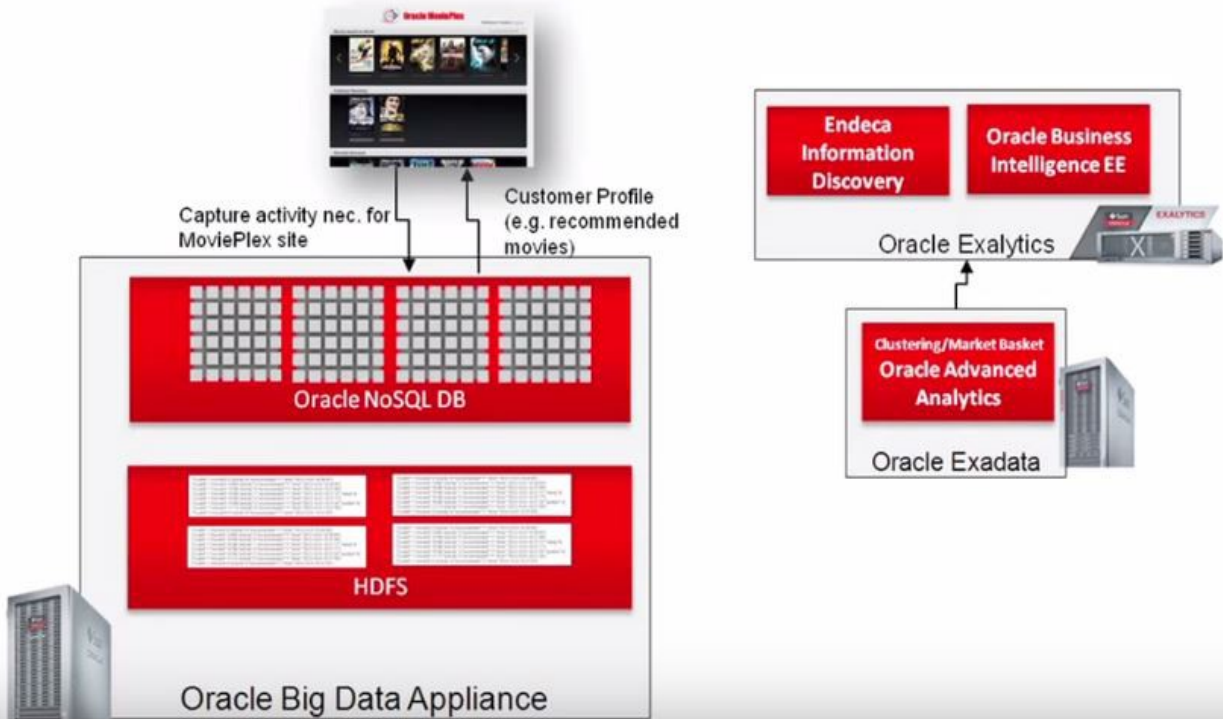
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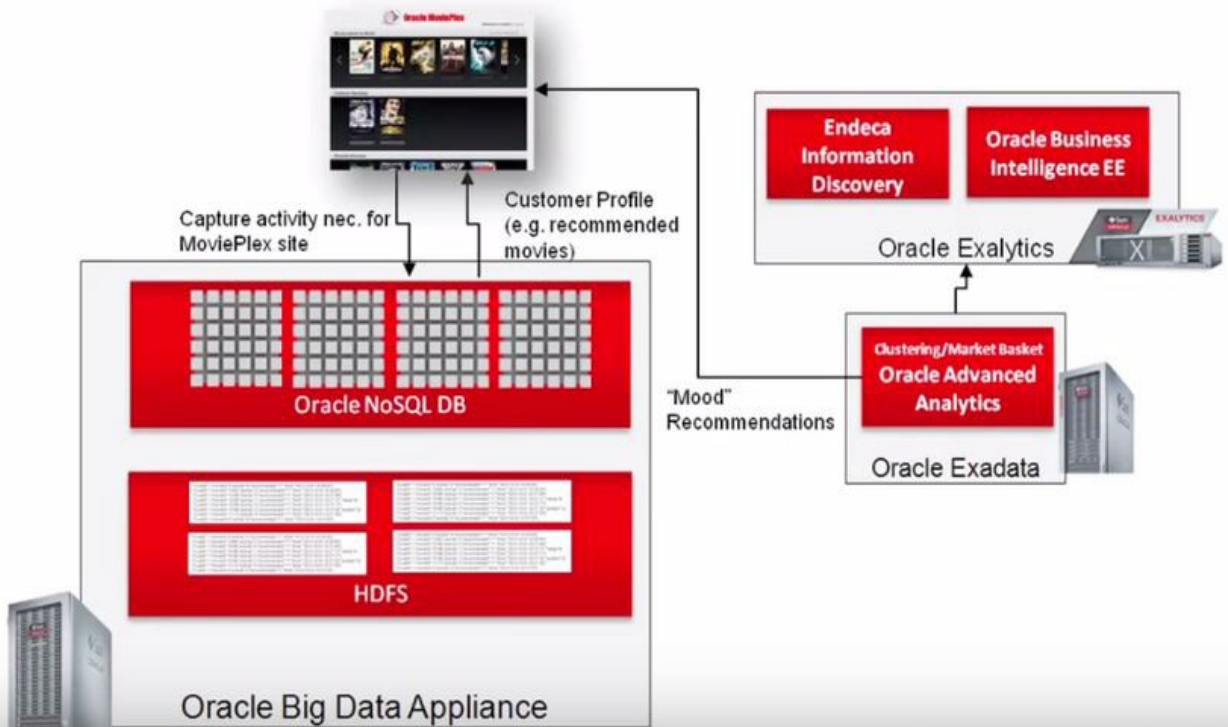
# MoviePlex Architecture



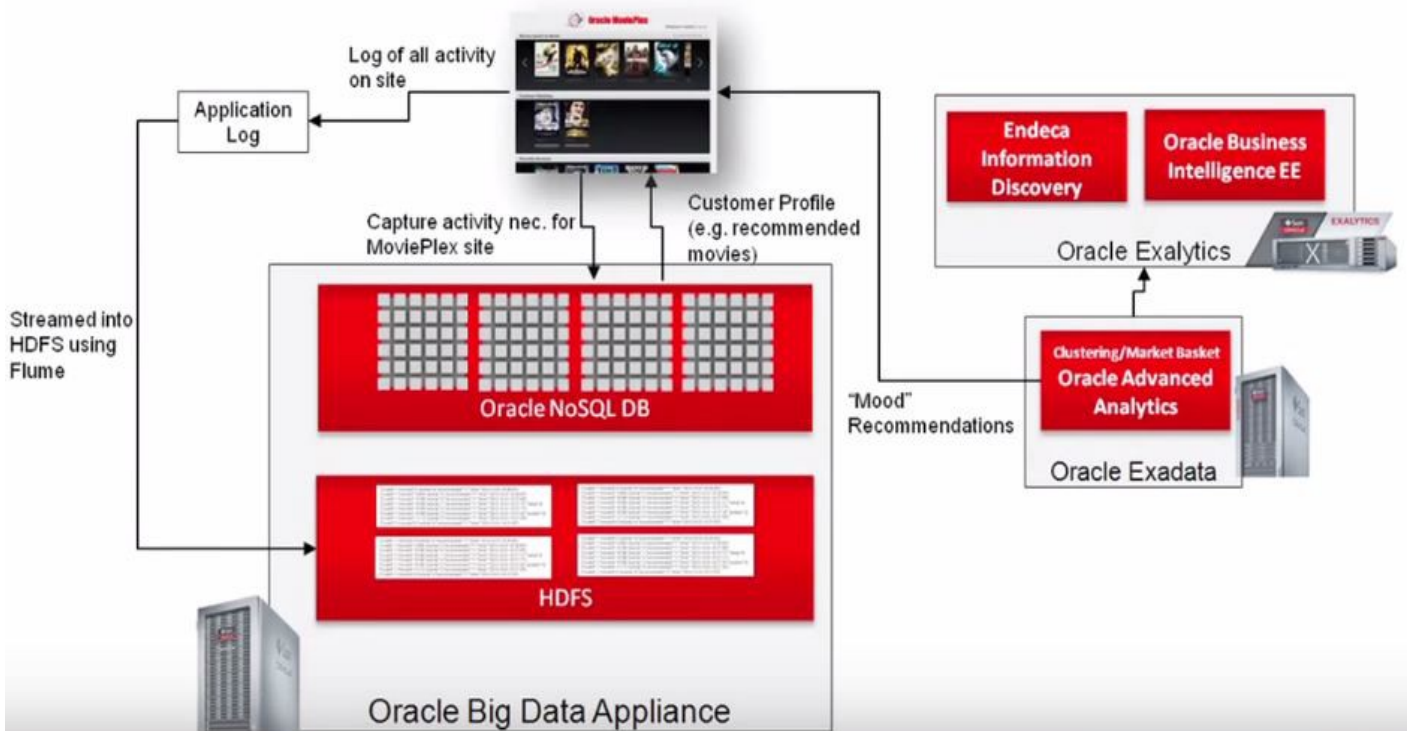
# MoviePlex Architecture



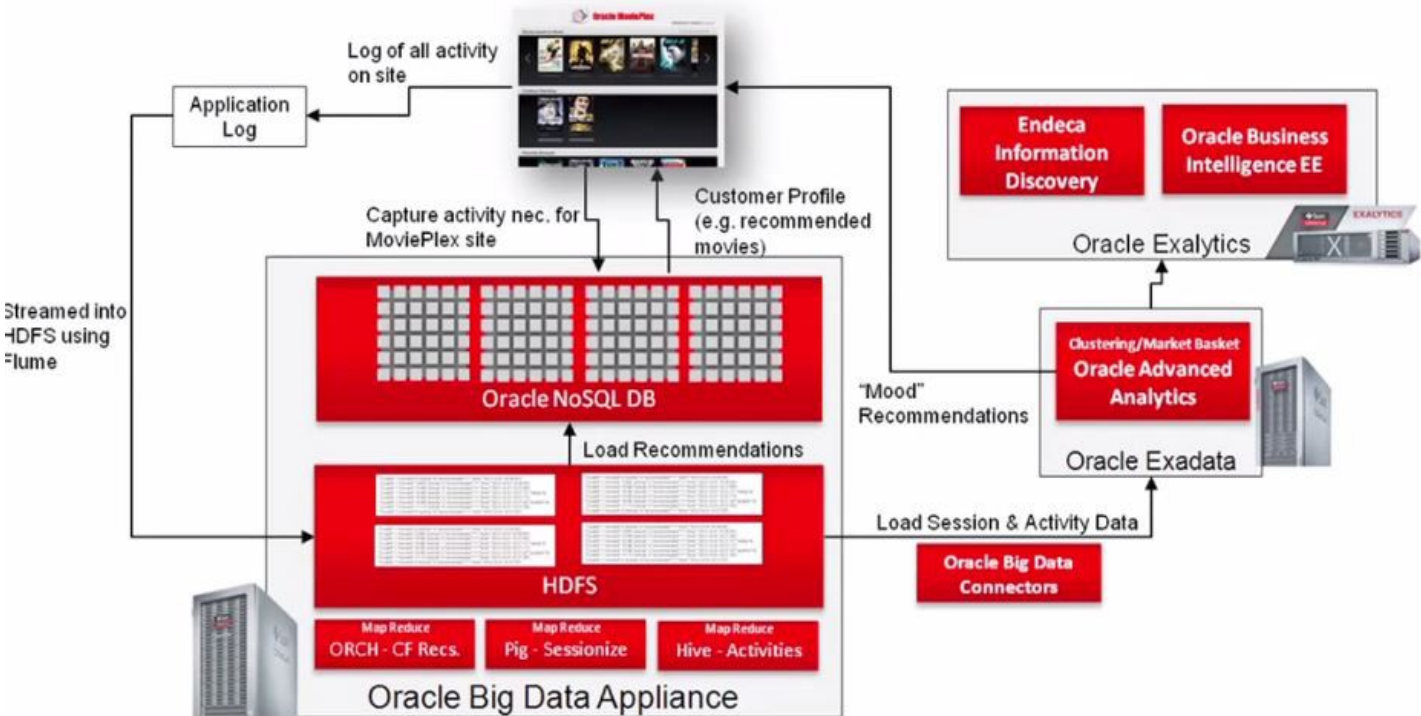
# MoviePlex Architecture



# MoviePlex Architecture



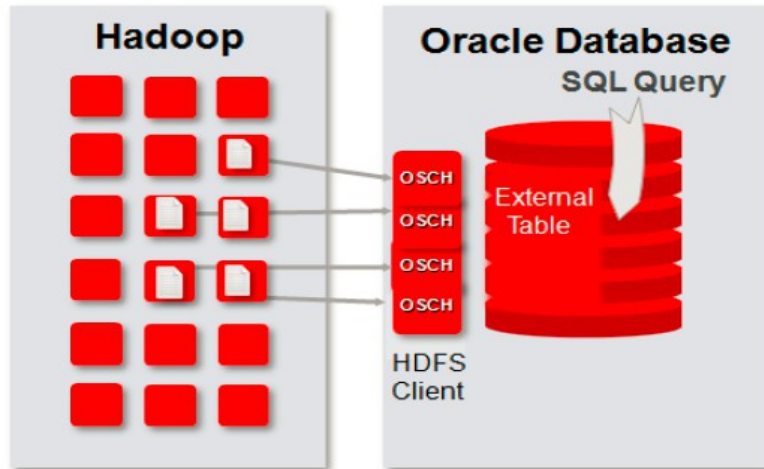
# MoviePlex Architecture





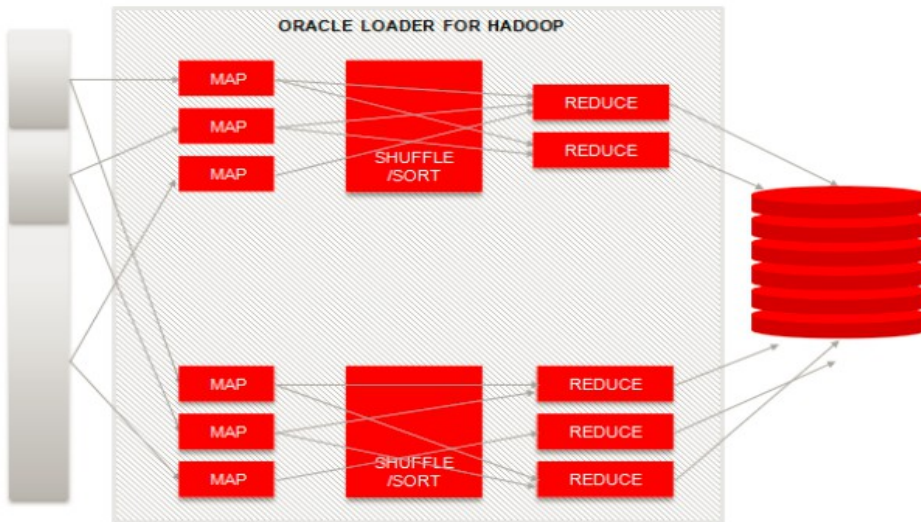
# OLH and OSCH

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

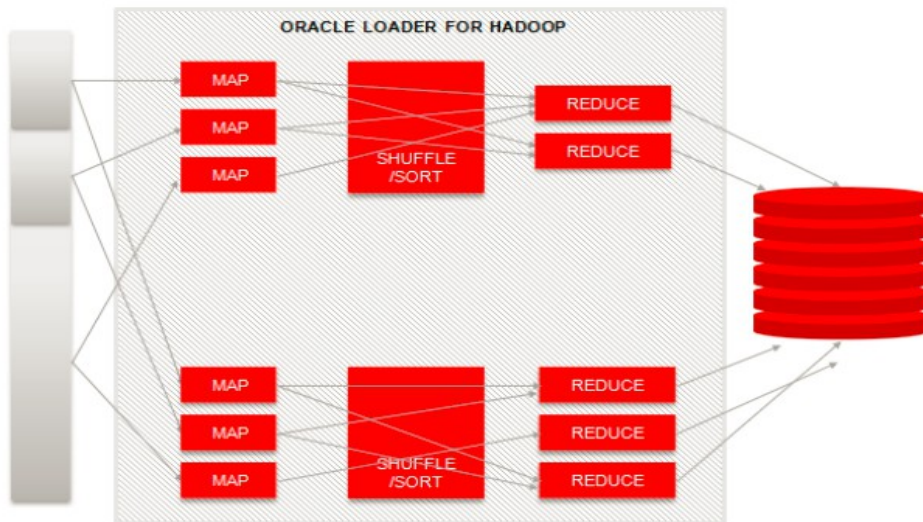
Core Count: 216核

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

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云和恩墨

(支持ORA错误自动查询)



恩墨学院



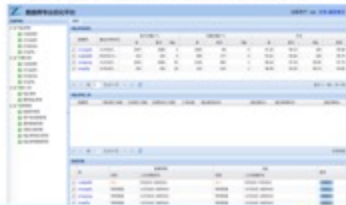
Oracle新闻



## z3 - SQL审核工具提升SQL质量

### • 独特的 SQL 视角

- SQL生命周期管理 - 捕获、分析、归档、形成SQL全周期管理平台



z3 - SQL审核



## zData - 高性能弹性分布式存储解决方案

### • 大数据整合与集中面临的平台压力

- 去“三”架构。通过Virtual SAN替代FC SAN
- 同样的成本获得 20倍+ 的IO性能
- 动态扩展。高性能的存储解决方案



zData - 分布式存储



## Announcing: BayMax 自动化巡检 即将开放云服务

- 自动化巡检 - 让DBA告别繁琐24x7最有价值的工作



BayMax自动化巡检



# 特别感谢 合作伙伴



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ENMOTECH



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OCM 联盟

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THANKS

