

# What is New in Oracle Database 11gR2

Coming for Oracle on OpenVMS

Gary Huffman  
Senior Development Manager  
Oracle OpenVMS Engineering Group  
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# Safe Harbor Statement

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# Review Features available for Oracle Database 11gR2

Overview of 11gR2

In Memory Database Cache

Unstructured Data Types

Real Applications Testing

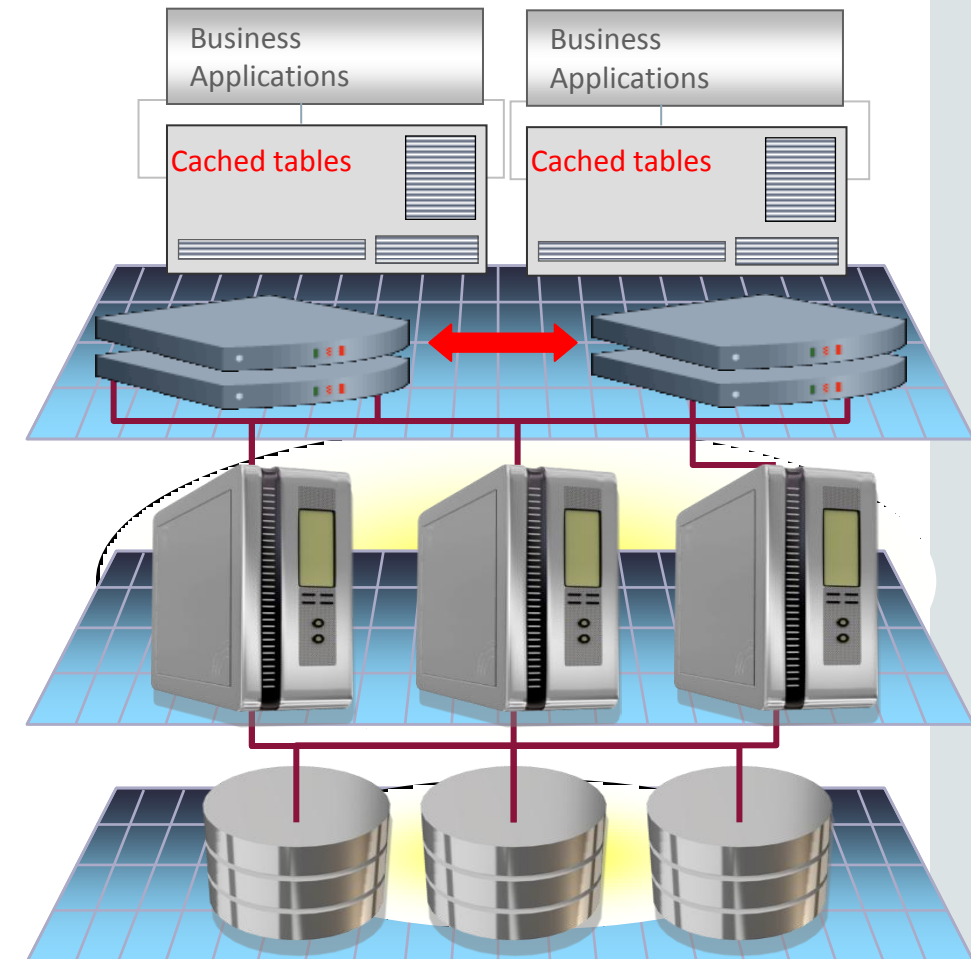
# Performance

Improve performance by at least 10x

# Oracle In Memory Database Cache

## Offload Workload to the Middle Tier

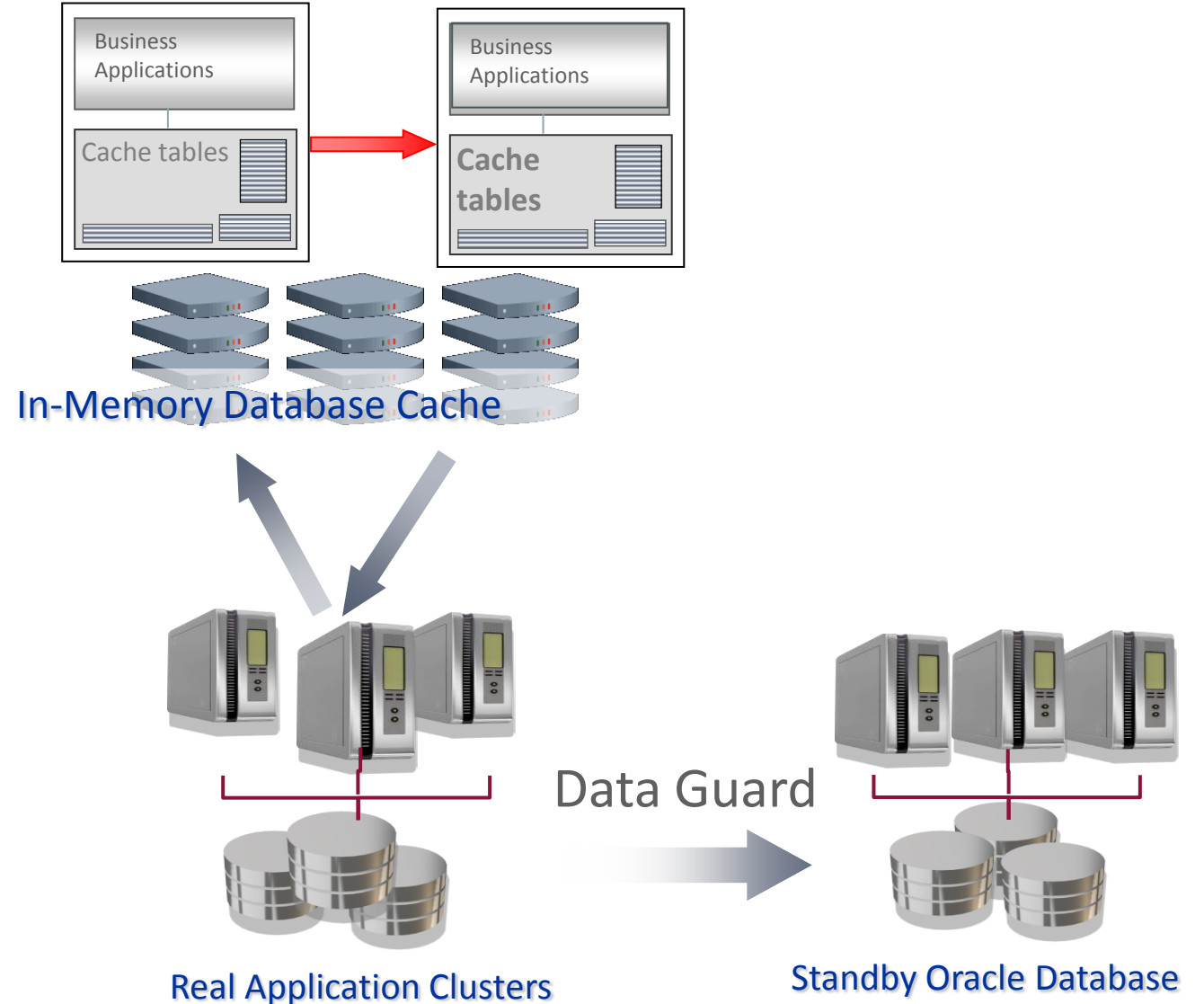
- Data cached in application memory
  - Database tables
  - Subsets of rows & columns
- Standard SQL interface
  - Synchronized with Oracle Database
- Utilizes middle tier resources
- Fast, consistent response times
  - High transaction throughput



# Oracle In Memory Database Cache

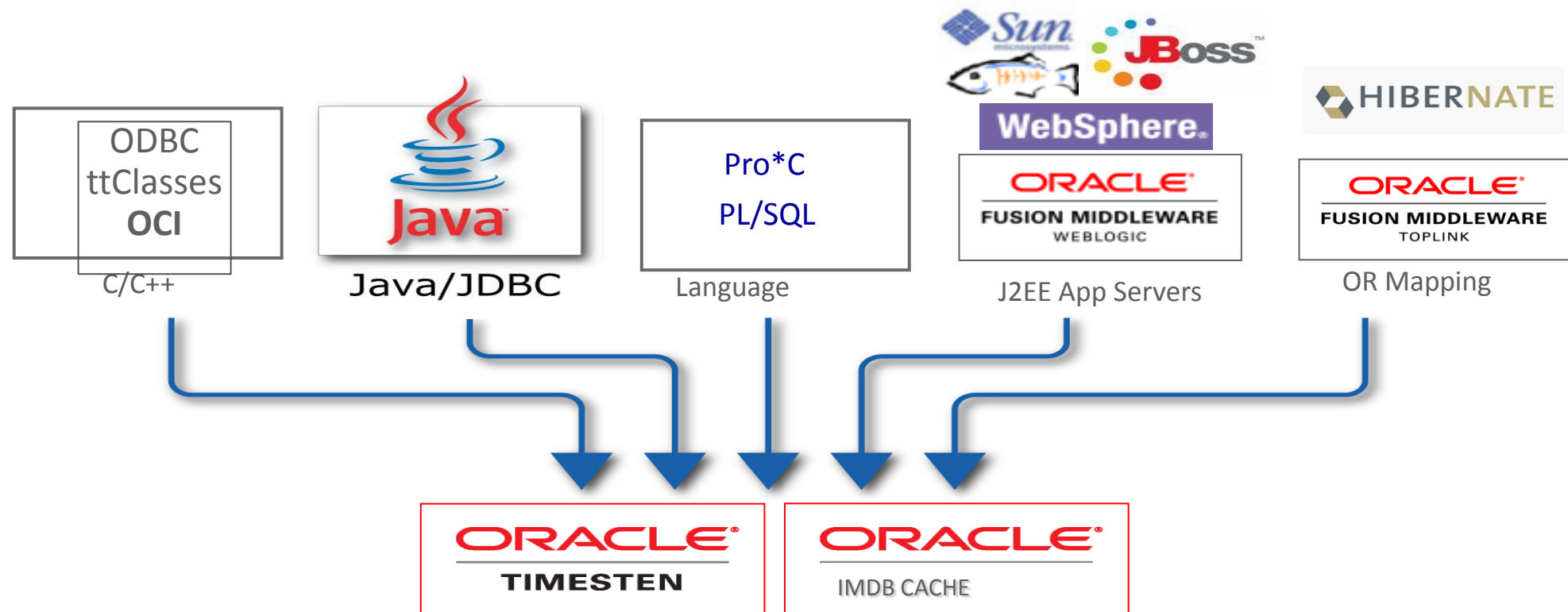
## Cross-tier High Availability

- Automatic Client Connection Failover
- Integration with Oracle Clusterware
  - Manages TimesTen / IMDB Cache processes
- Integration with Oracle RAC
  - Automatic recovery from Oracle Database RAC node failures using TAF and FAN
- Support Data Guard synchronous physical standby
  - Failover
  - Switchover
  - Rolling upgrade



# Oracle In Memory Database Cache

## Application Development



*New in 11g release*

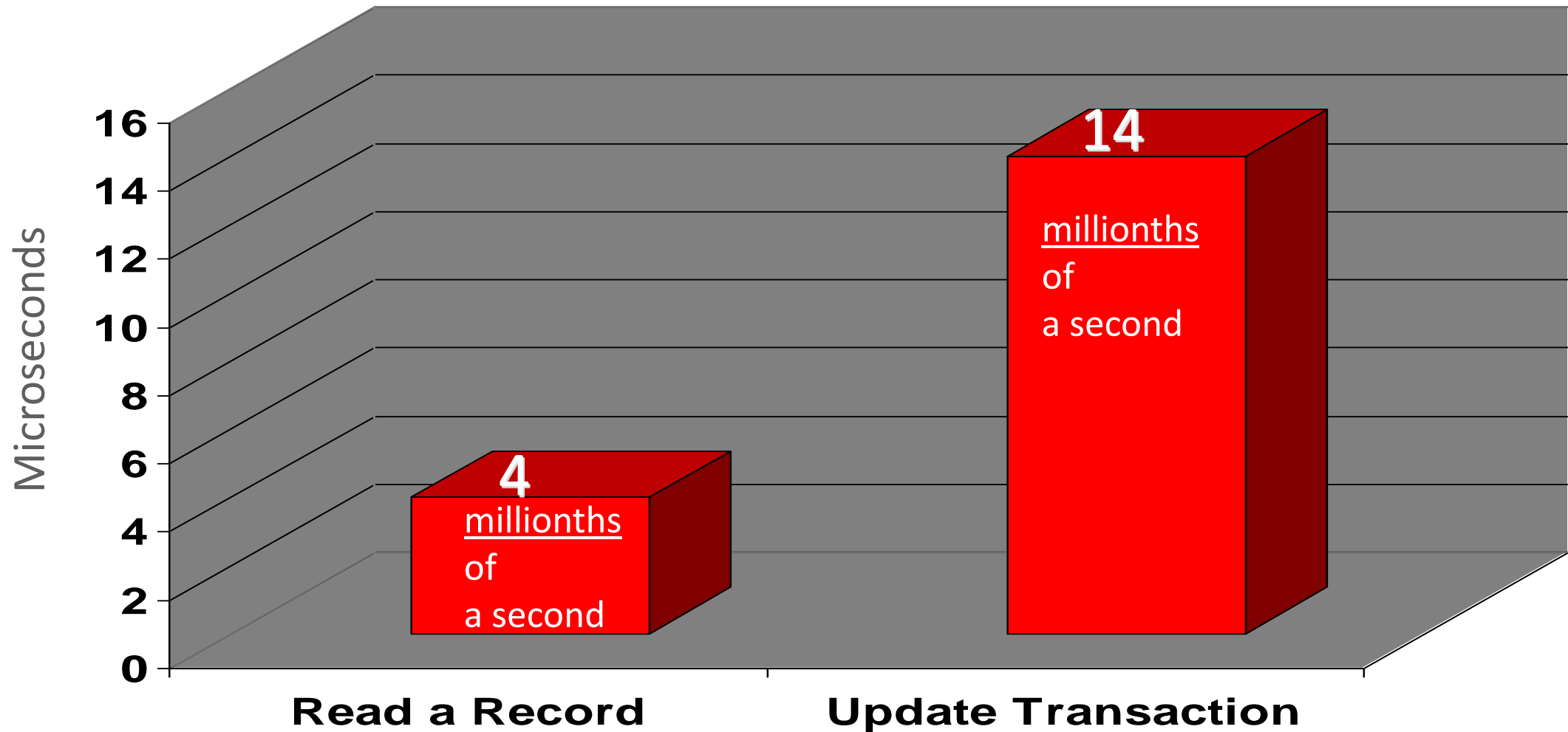
- PL/SQL, Oracle Call Interface (OCI) and Pro\*C Support

*Planned for CY2010*

- ODP.NET data provider, PHP

# Oracle In Memory Database Cache

Lightning Fast Response Time

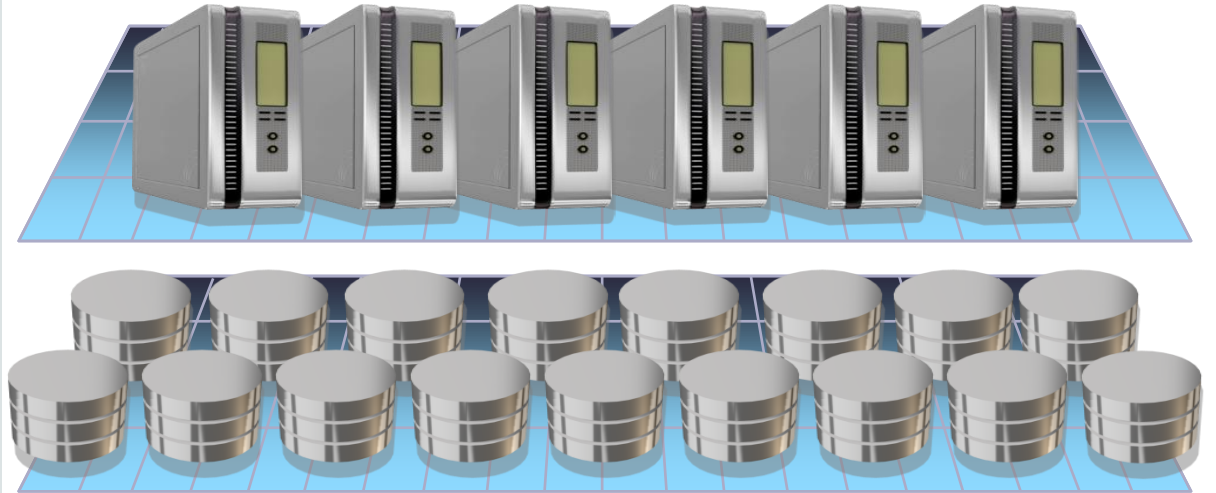




# Oracle Database 11g Release 2

## In-Memory Parallel Execution

- Data warehouse environments can have large amounts of memory that is not always used
- An algorithm places fragments of an object (partitions) in memory on different nodes
- Compression gets more data in memory
- Parallel servers (aka PQ Slaves) are then executed on the corresponding nodes

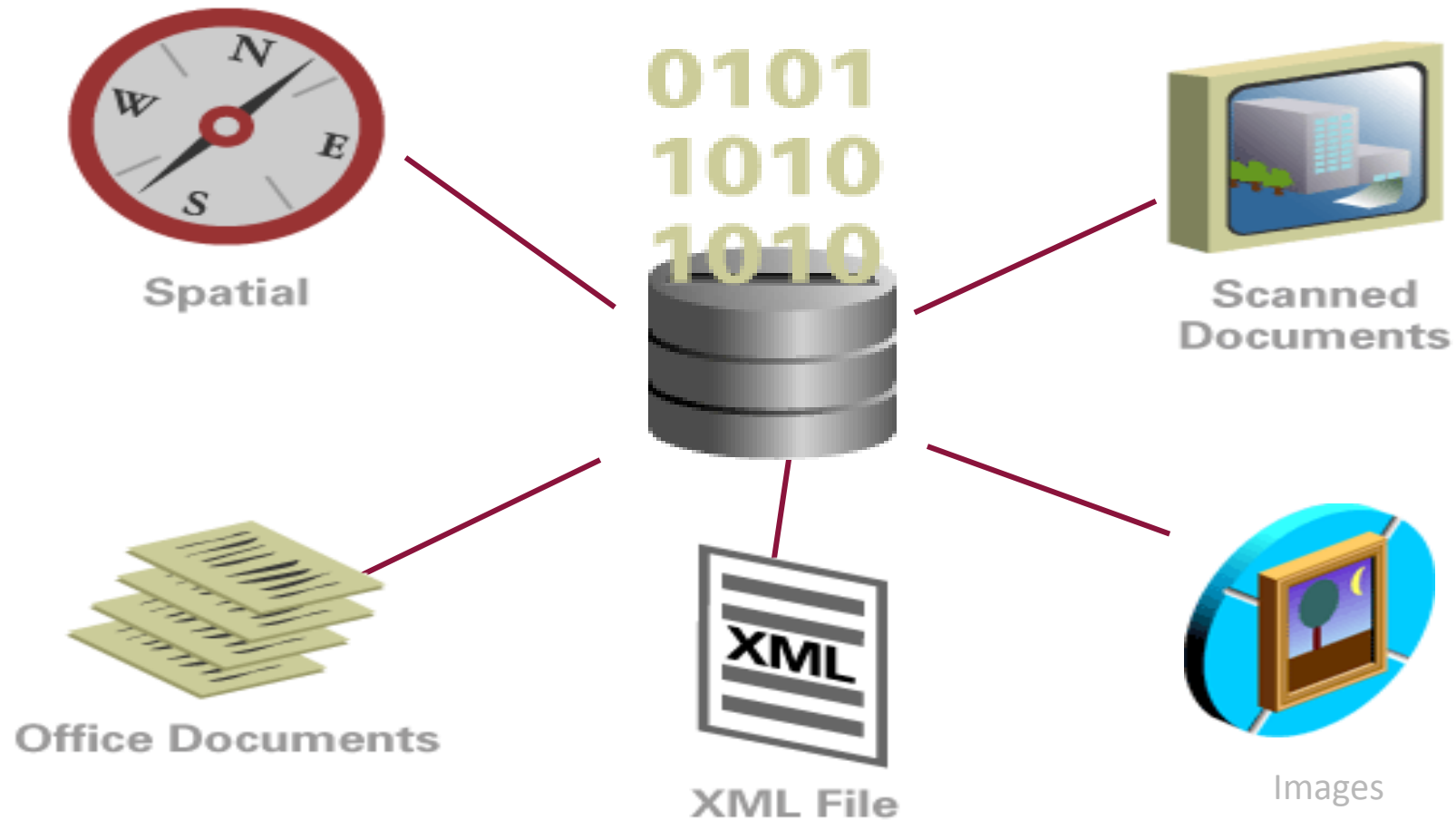


Real Application Clusters

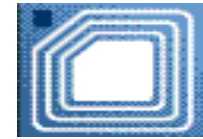
# Integrating Unstructured Data

Better business insight into all data types

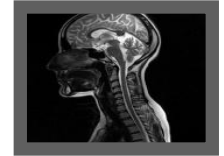
# Integrating Unstructured Data



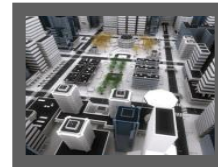
## New in Oracle Database 11g



RFID



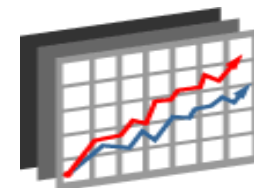
DICOM



3D



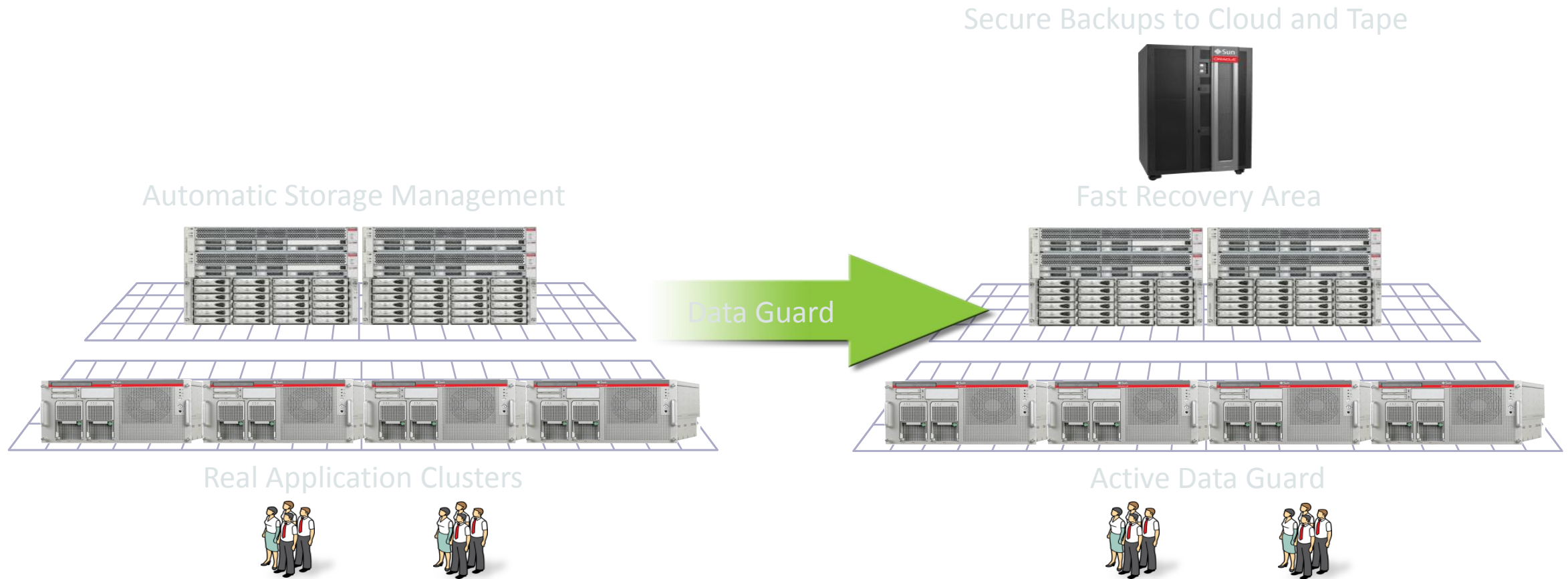
Binary XML



SecureFiles

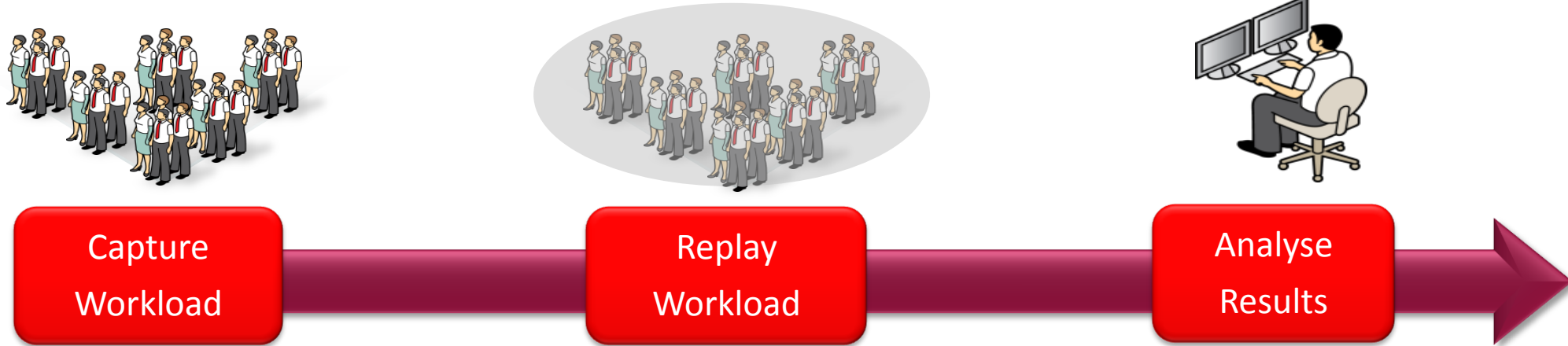
# Oracle Maximum Availability Architecture

No idle redundancy



# Real Application Testing

Reducing time and risk of change



- Fully automated workflow with change assurance for:
  - Database and O/S upgrades & migrations
  - Database configuration changes
  - Server and storage changes
- Capture workloads from Oracle9i, 10g and 11g databases

# Real Application Clusters

Virtualize servers into a shared platform



- Run all databases for all applications on shared platform
- Highly available and scalable
- No changes required to applications

# QA

QUESTIONS  
ANSWERS

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