

“Oracle 10g Database New Features”

iSeminar가

1544-3355

iSeminar

가

“Chat”

Oracle 10g Database New Features

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,
Business Solutions Consultant

Agenda

10^g

- **Grid**
- Oracle 10g New Features
 - (Provisioning)
 -
 - 가
-
- Q & A

10^g

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10^g

Enterprise Grid Computing

Oracle 10g -

10^g

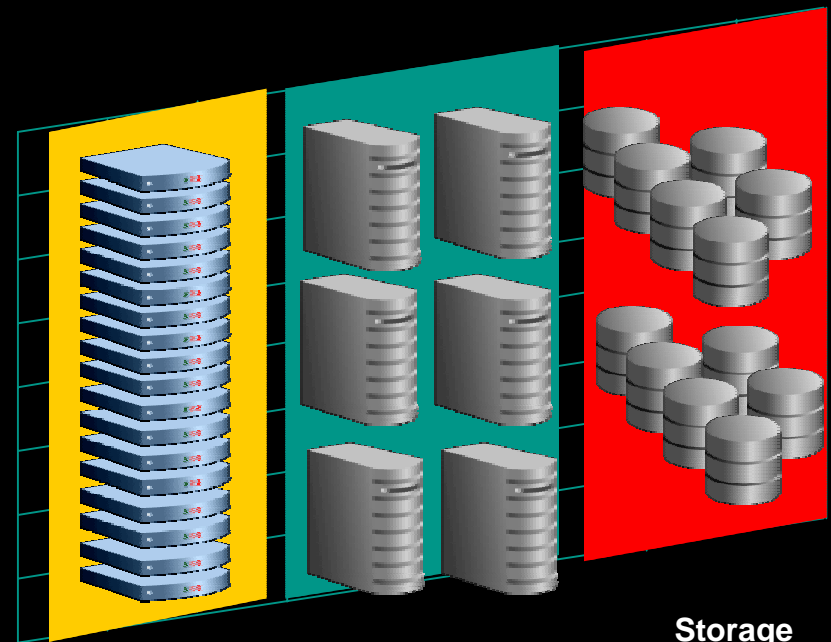
ORACLE
DATABASE **10^g**

ORACLE
APPLICATION SERVER **10^g**

ORACLE
ENTERPRISE MANAGER **10^g**



Grid Control



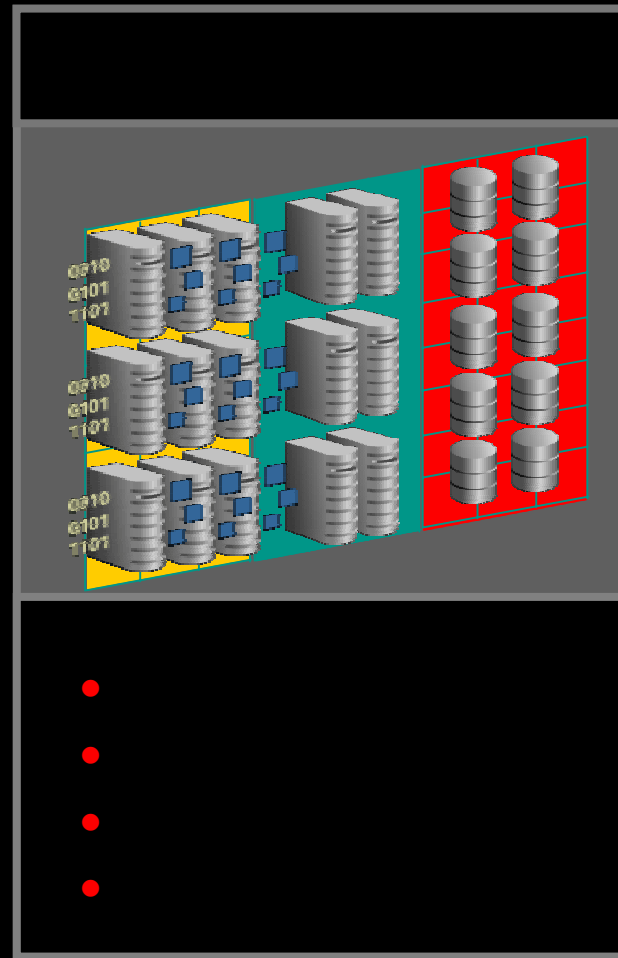
Application
Server
Grid

Database
Grid

Storage
Grid

Oracle 10g -

10^g

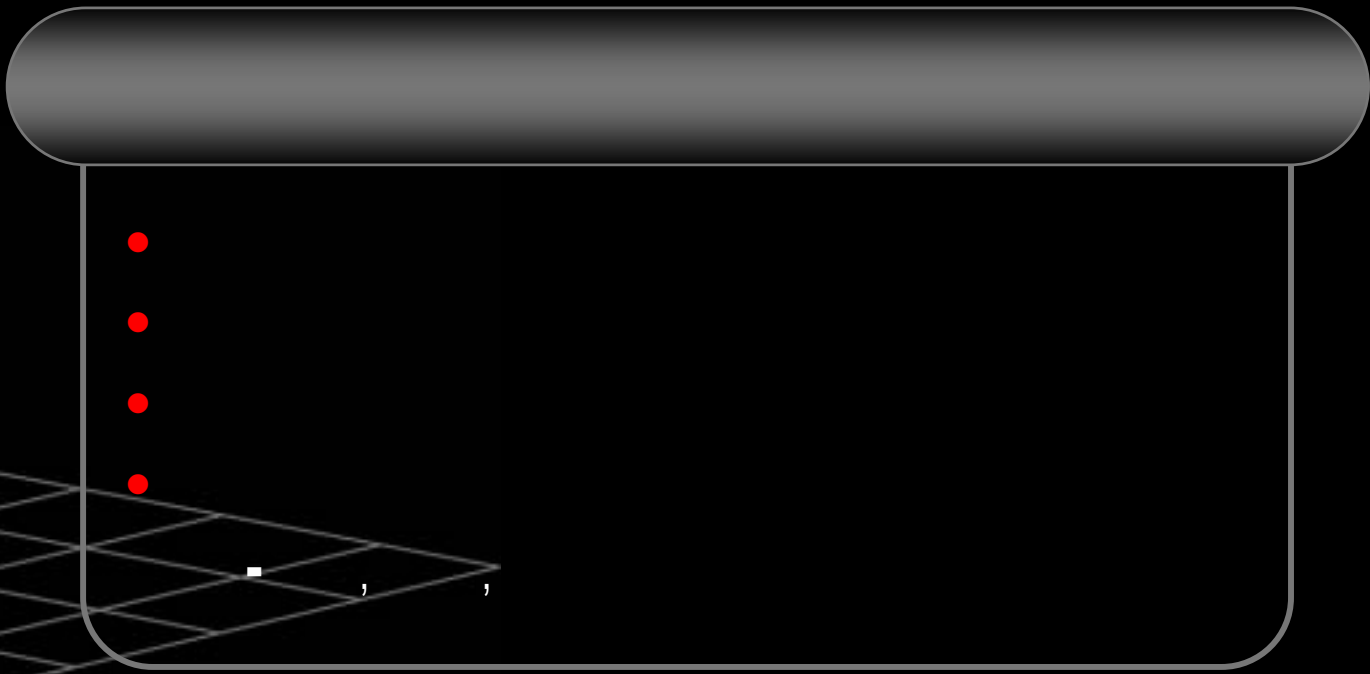


Agenda

10^g

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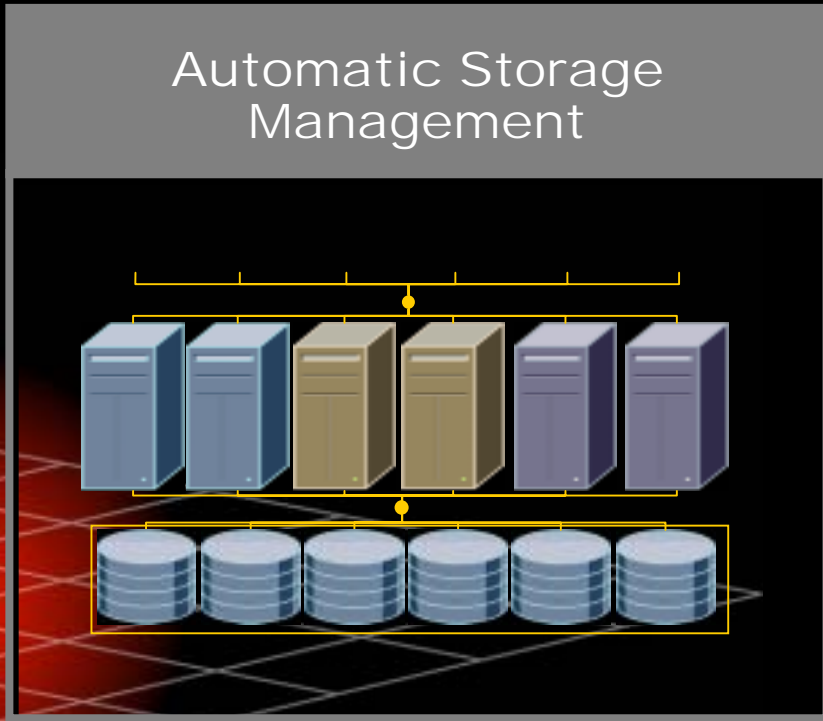


ASM

Automatic Storage Management

(ASM)

10^g



-
-
-
-
-
- 3'rd Party

가

(Striping)
rebalancing

Disk 관리절차의
70% 감소

Disk Setup

- 1.Storage
- 2.Volume Manager
- 3.File System
- 4.hot spot
- 5.Logical volumes
- 6.File system
- 7.Database s/w
- 8.Database

- 1.Storage**
- 2.ASM**
- 3.Disk Group**
- 4.Database s/w**
- 5.Database**



Add Disk

- 1.OS Disk 가
- 2.Volume Manager
- 3. File System
- 4. 가 Disk
- 5. file
- 6.Database file
- 7.I/O tuning

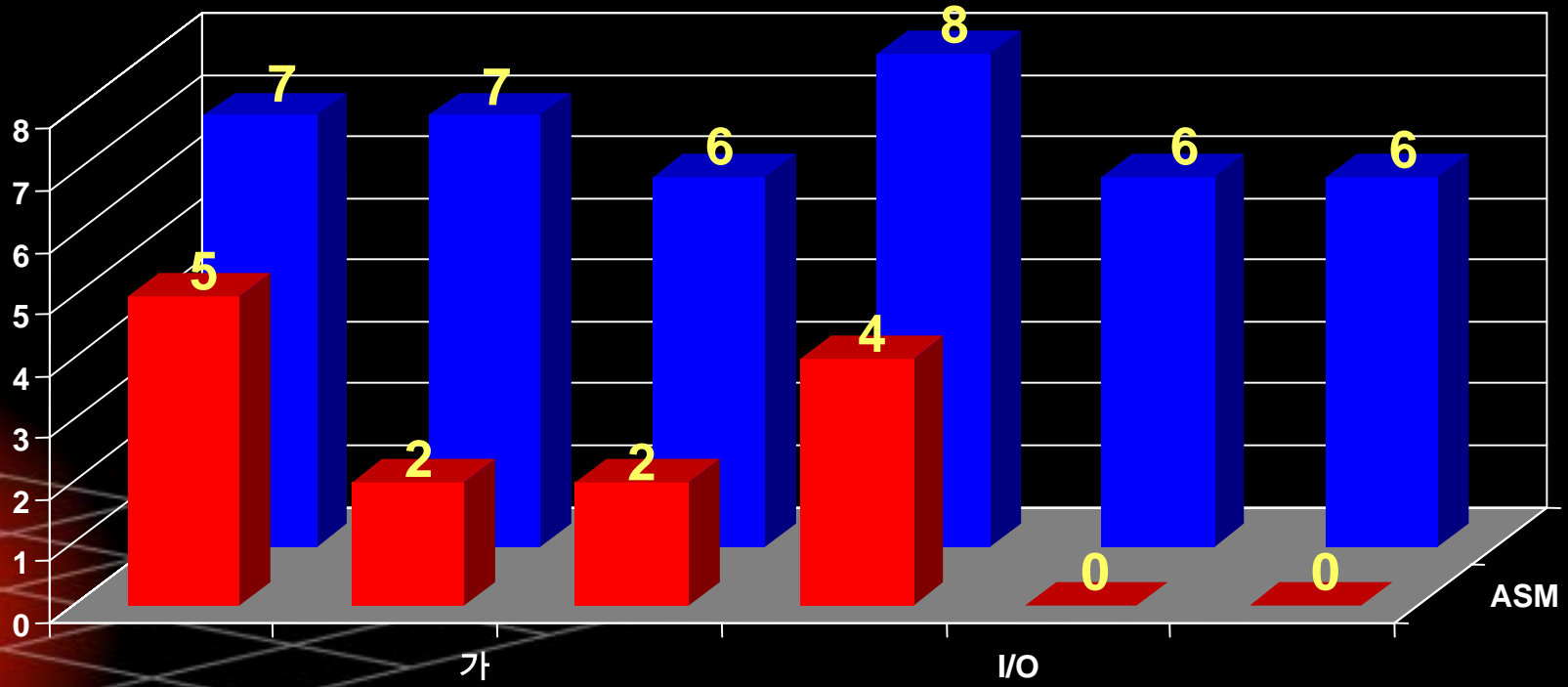
- 1.OS Disk 가**
- 2.Add Disk**



ASM

DBA

10^g



Transportable Tablespaces

10^g



New:

Plug/Unplug가 가

!!!!

Oracle 10g Data Pump

10^g

Import / Export

- Oracle9i export 60% (single thread)
- Oracle9i import 15 20 (single thread)

Agenda

10^g

- Grid
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 - 가
- Q & A

가 (Self-Managing) Oracle Database 10g

10^g

-
-
- SQL
-
-
-

Reduce Capital
Expenditure

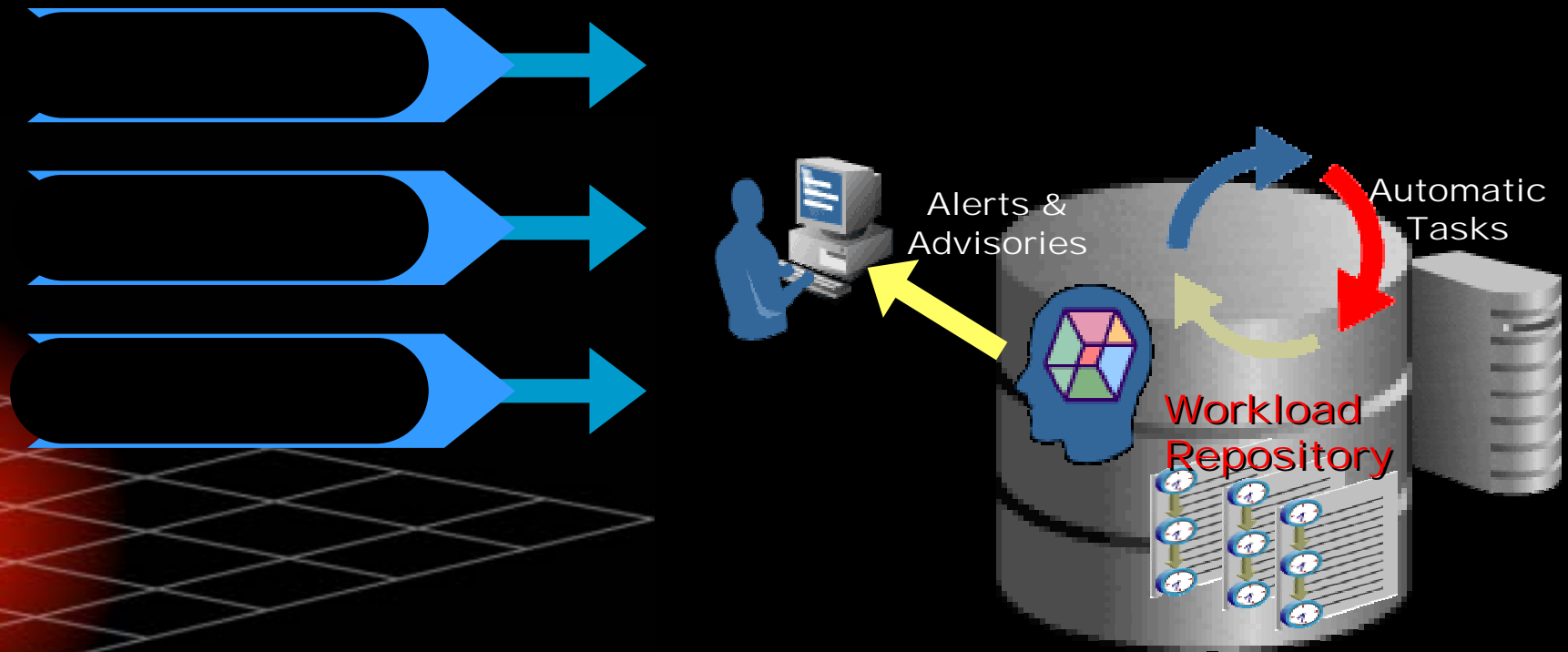
$\frac{1}{2}$ **Cost**

ADDM

Automatic Database Diagnostic Monitor

가 (Self-Managing) Oracle Database 10g

10^g



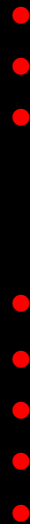
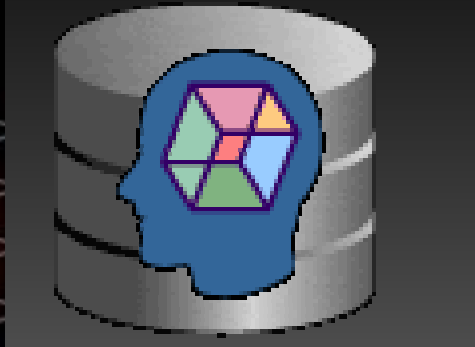
(ADDM)

10^g

Automatic **D**atabase **D**iagnostic **M**onitor

-DB DBA

-
-
-



& SQL

ADDM Performance Findings

10^g

Performance Analysis

Task Name **ADDM:1372083478_1_248**

Database Time (minutes) **44.07** Period Start Time **Jan 22, 2004 5:00:21 PM** Period Duration (minutes) **60.58**

Task Owner **SYS** Average Active Sessions **0.73**

Impact (%) ▾	Finding
100	SQL statements consuming significant database time were found.
35.27	Read and write contention on database blocks was consuming significant database time.
15.12	Time spent on the CPU by the instance was responsible for a substantial part of database time.
12.93	Wait event "latch: In memory undo latch" in wait class "Concurrency" was consuming significant database time.
5.47	Waits for redo log buffer space were consuming significant database time.

Finding **Read and write contention on database blocks was consuming significant database time.**
Impact (minutes) **15.54**
Impact (%) **35.27**

Recommendations

Show All Details | Hide All Details

Details	Category	Benefit (%) ▾
Hide	Schema	33.22
Action	Consider using ORACLE's recommended solution of automatic segment space management in a locally managed tablespace for the tablespace "SCOTT_DATA" containing the TABLE "SCOTT.TOTO" with object id 51299.	

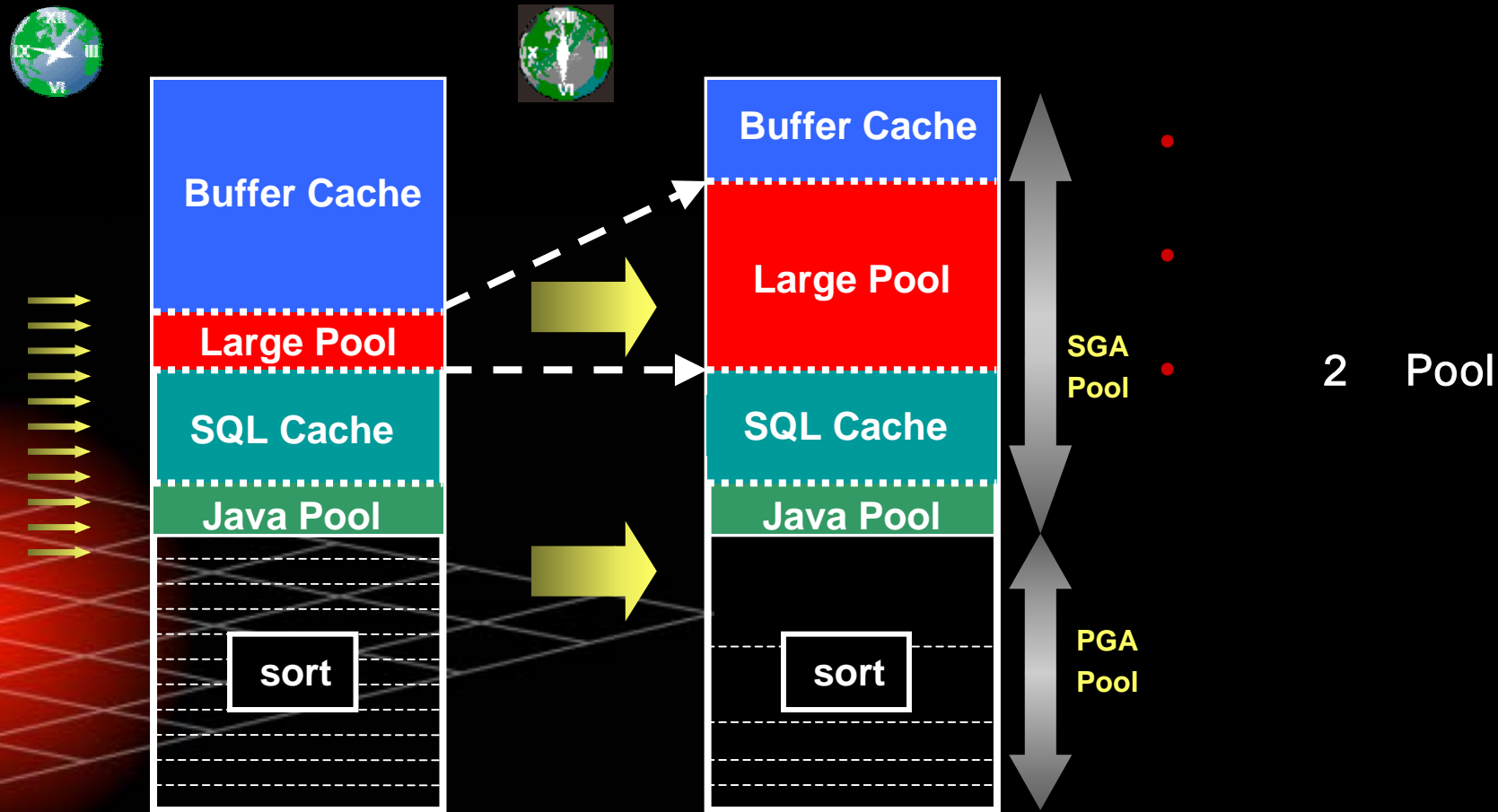
1

2

10^g

Automatic Shared Memory Management

(Shared)



SGA

10^g

- SGA

DB_CACHE_SIZE
SHARED_POOL_SIZE
LARGE_POOL_SIZE
JAVA_POOL_SIZE



(enable)
Automatic Shared Memory Management

SGA_TARGET

- Enterprise Manager Grid Control

- Monitor and manage
- Grid-wide view
- End-to-end
- Top-to-bottom
- From anywhere



Manage from a Browser



EM2Go ... or a PDA

Agenda

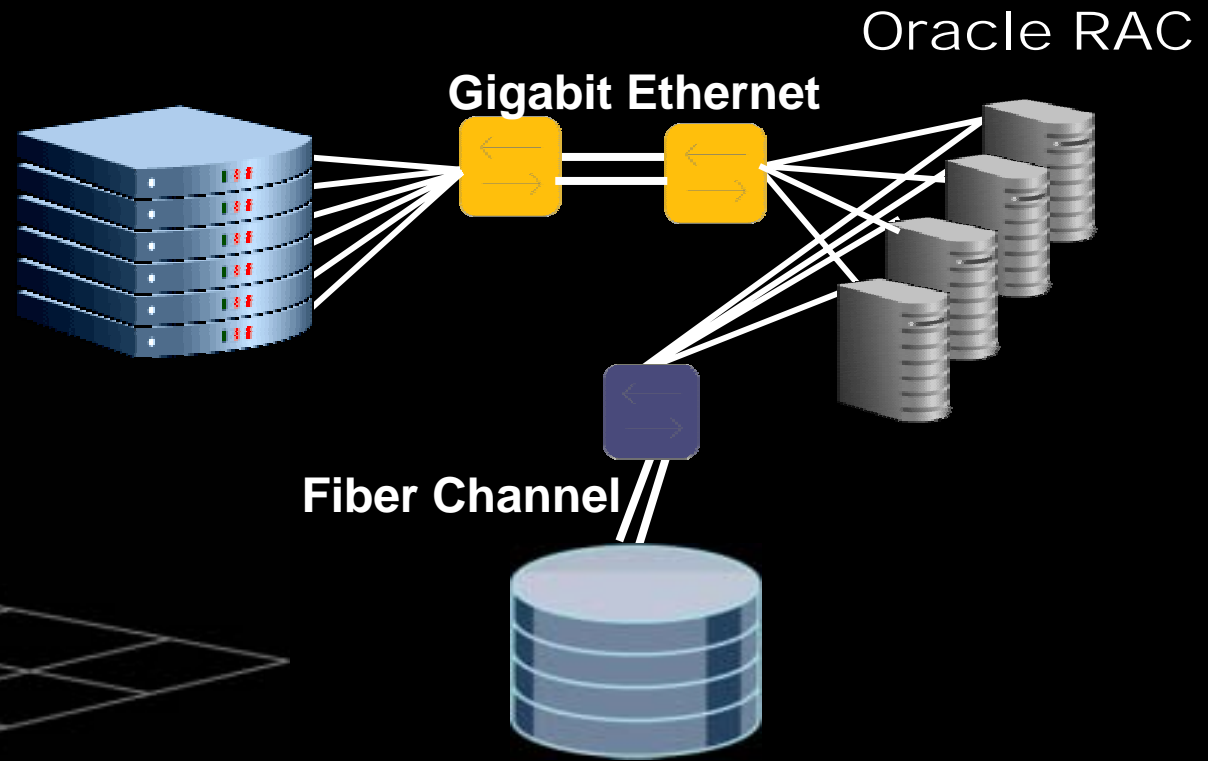
10^g

- Grid
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 -
 - 가
- Q & A

RAC

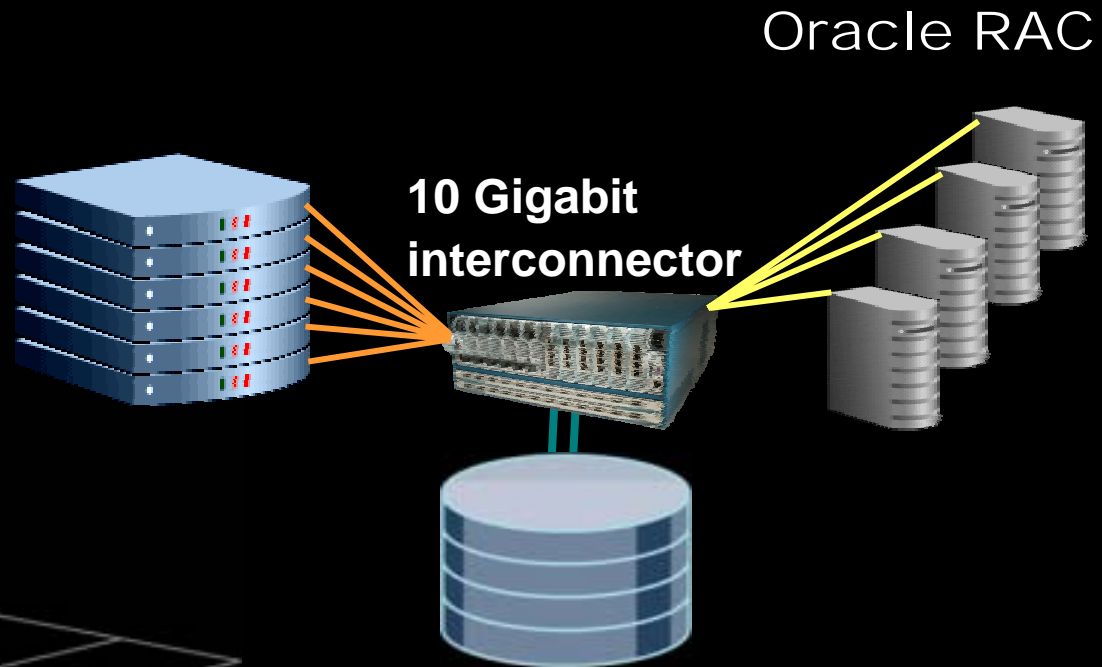
Real Application Cluster

10^g



Oracle 10g RAC

10^g

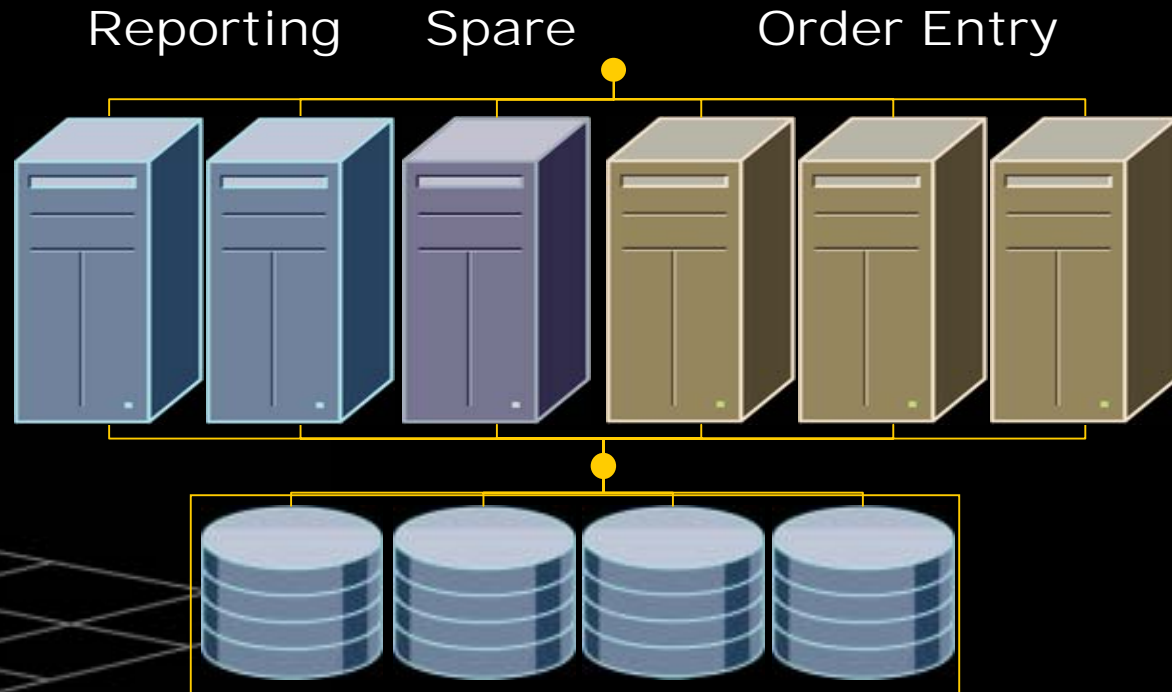


Clustering with InfiniBand

–
Management)

(Workload

10^g



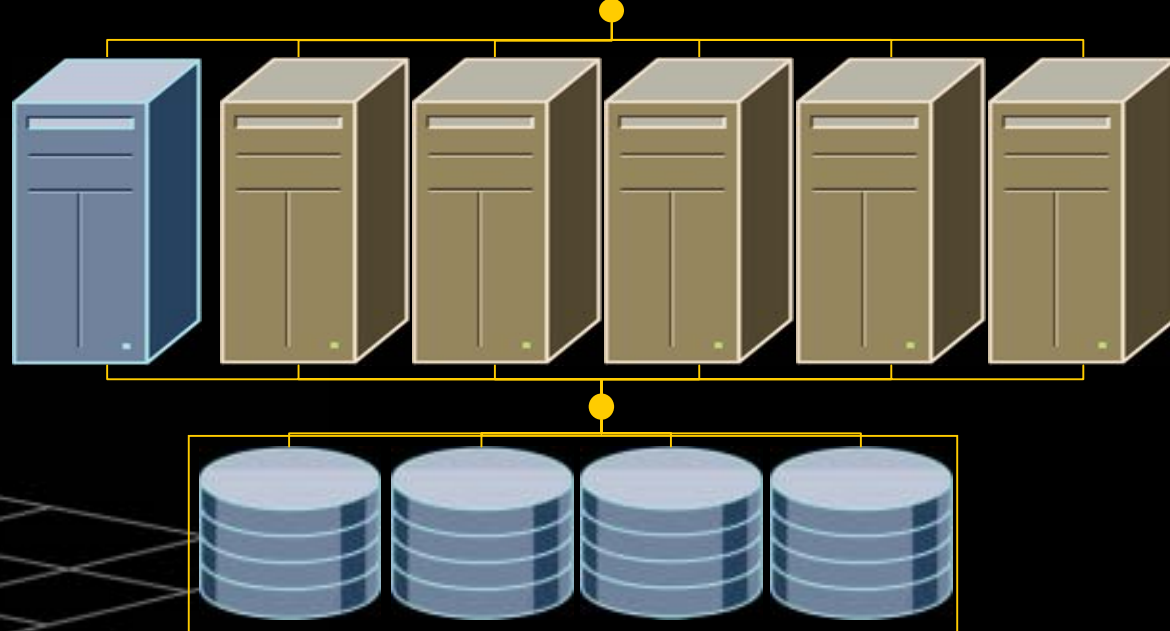
–
Management)

(Workload

10^g

Reporting

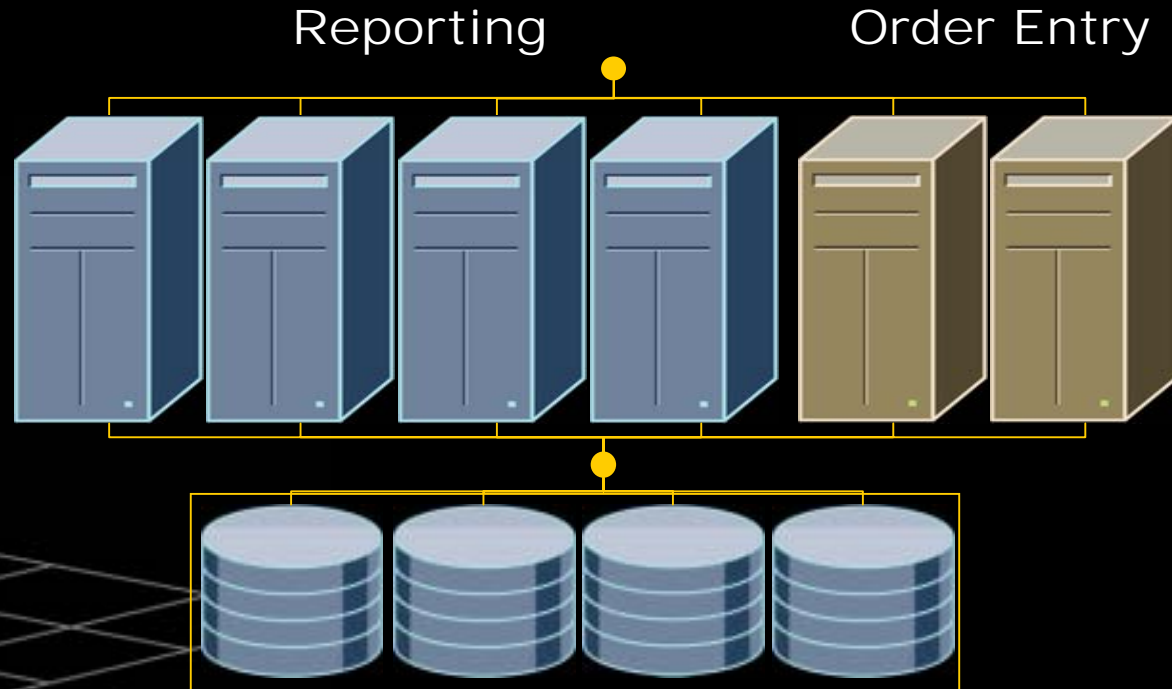
Order Entry



–
Management)

(Workload

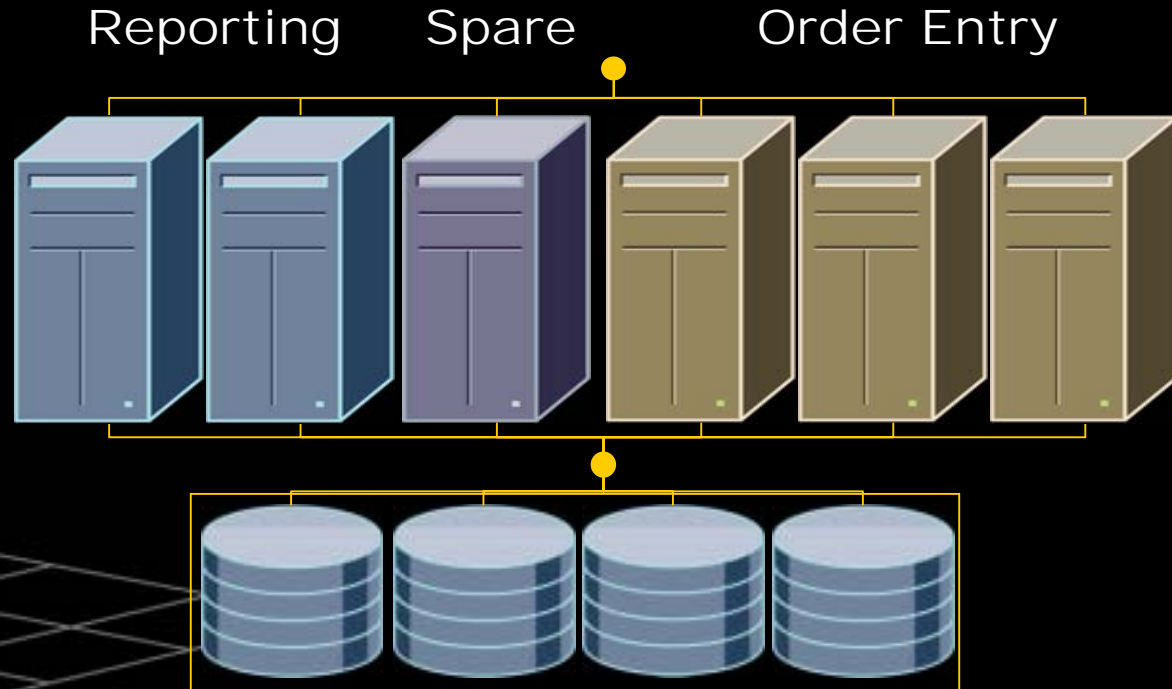
10^g



– Management)

(Workload

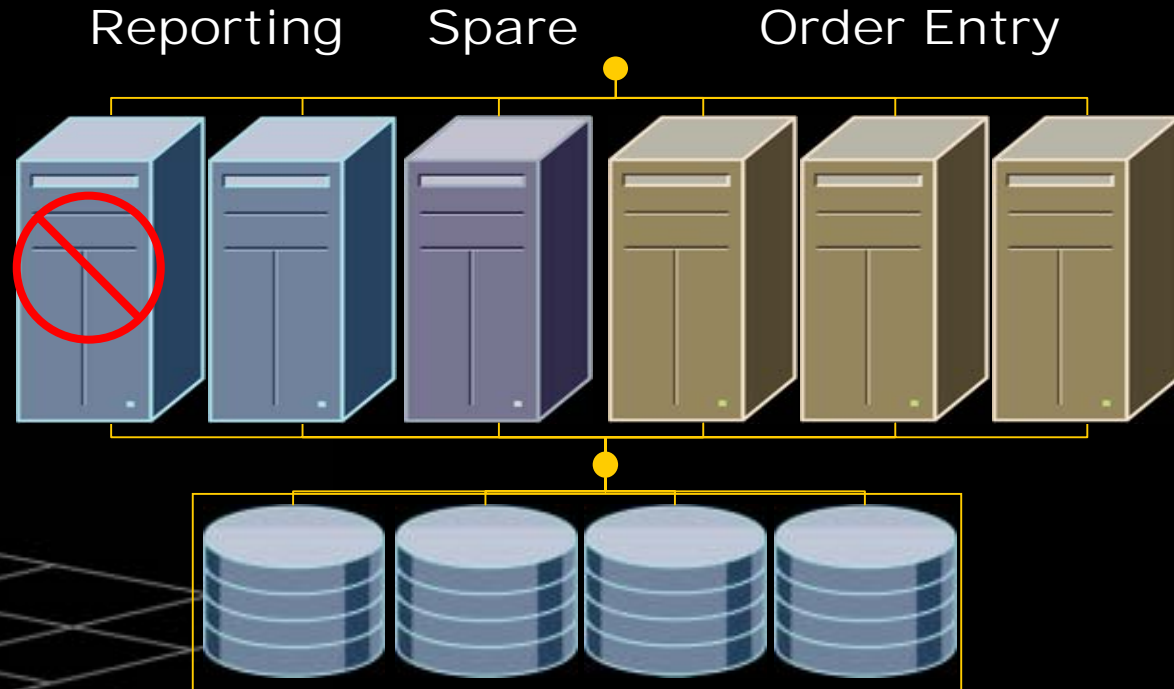
10^g



– Management)

(Workload

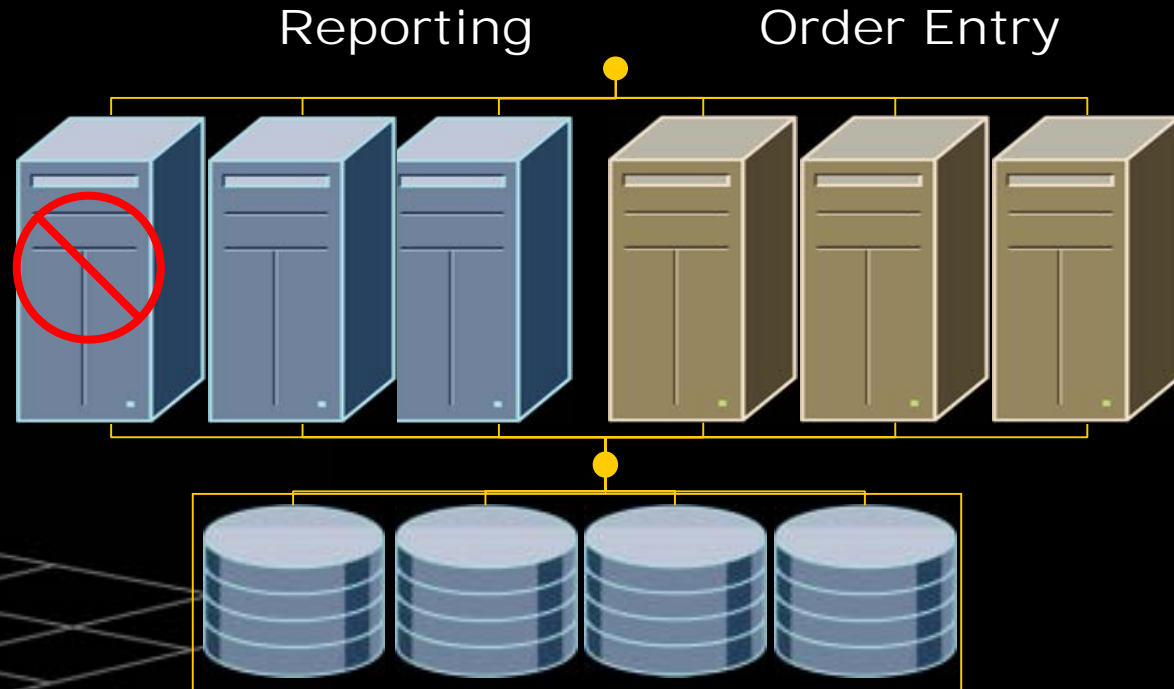
10^g



Management)

(Workload

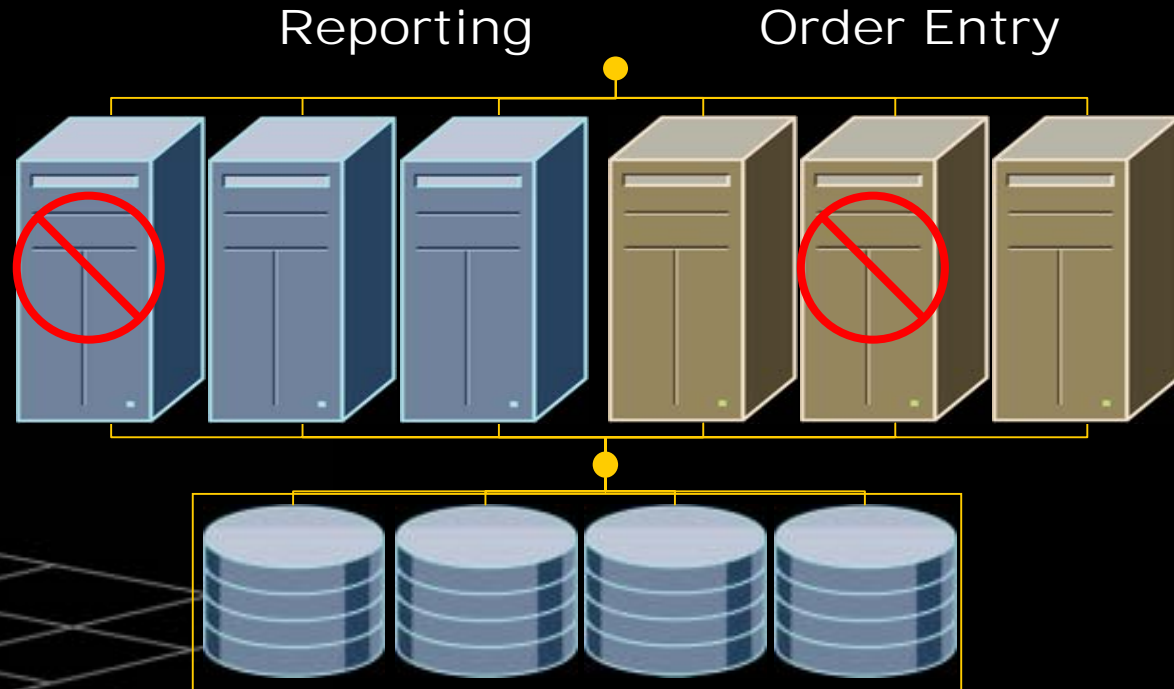
10^g



–
Management)

(Workload

10^g

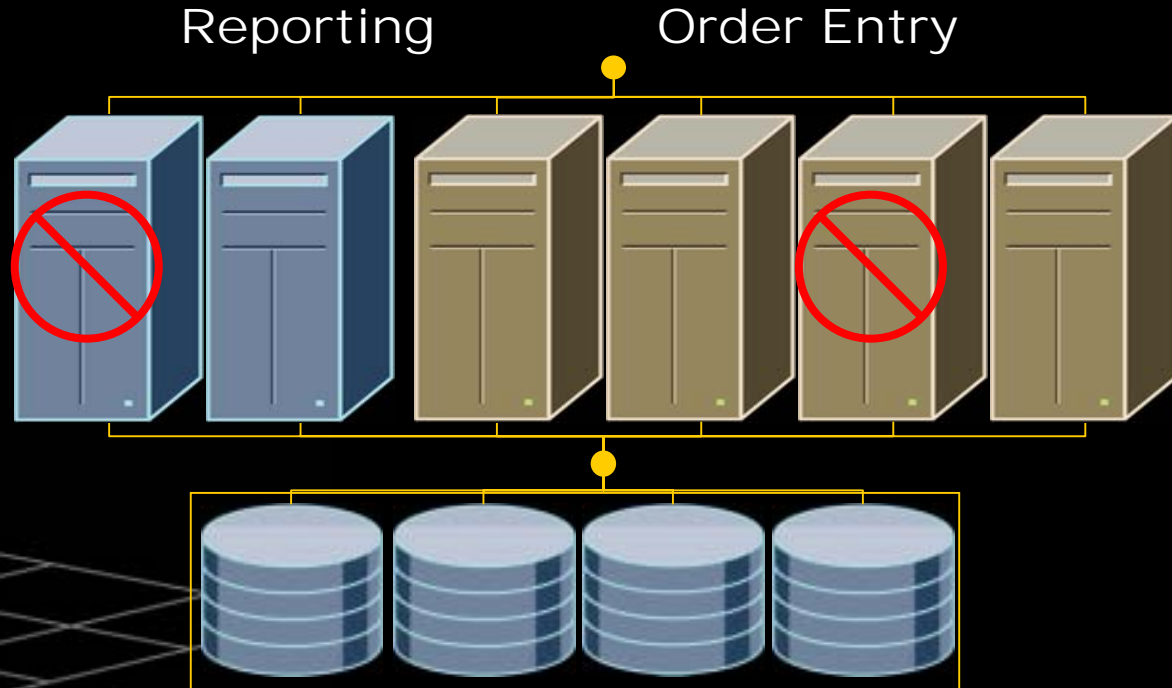


2

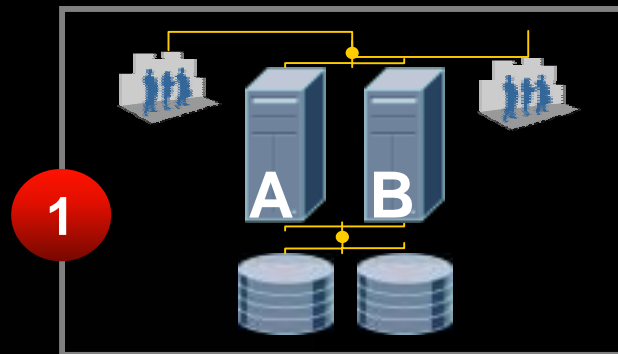
–
Management)

(Workload

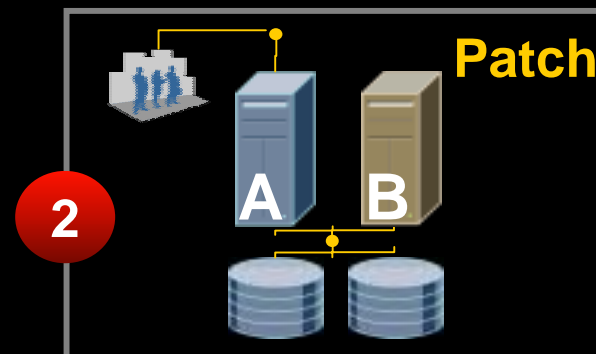
10^g



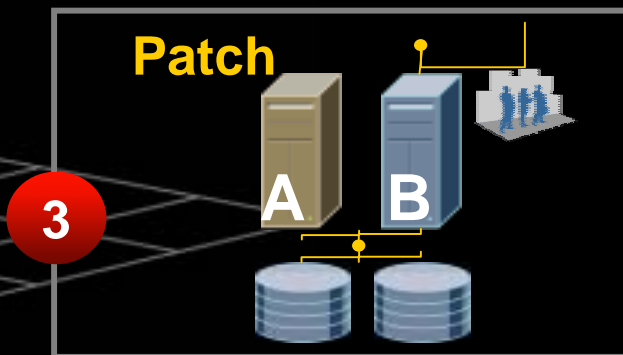
2



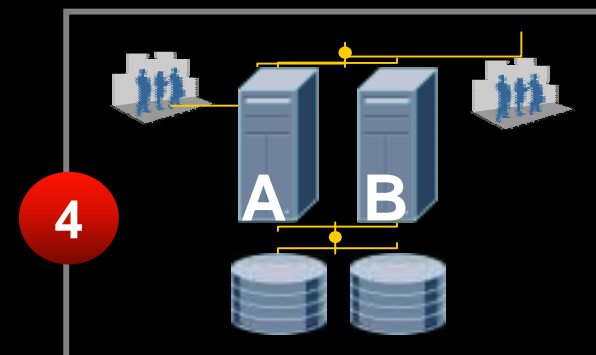
Initial RAC Configuration



Clients on A, Patch B



Clients on B, Patch A



Upgrade Complete

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10^g

-
- (Flash Back)
- 가 (Data Guard)
-

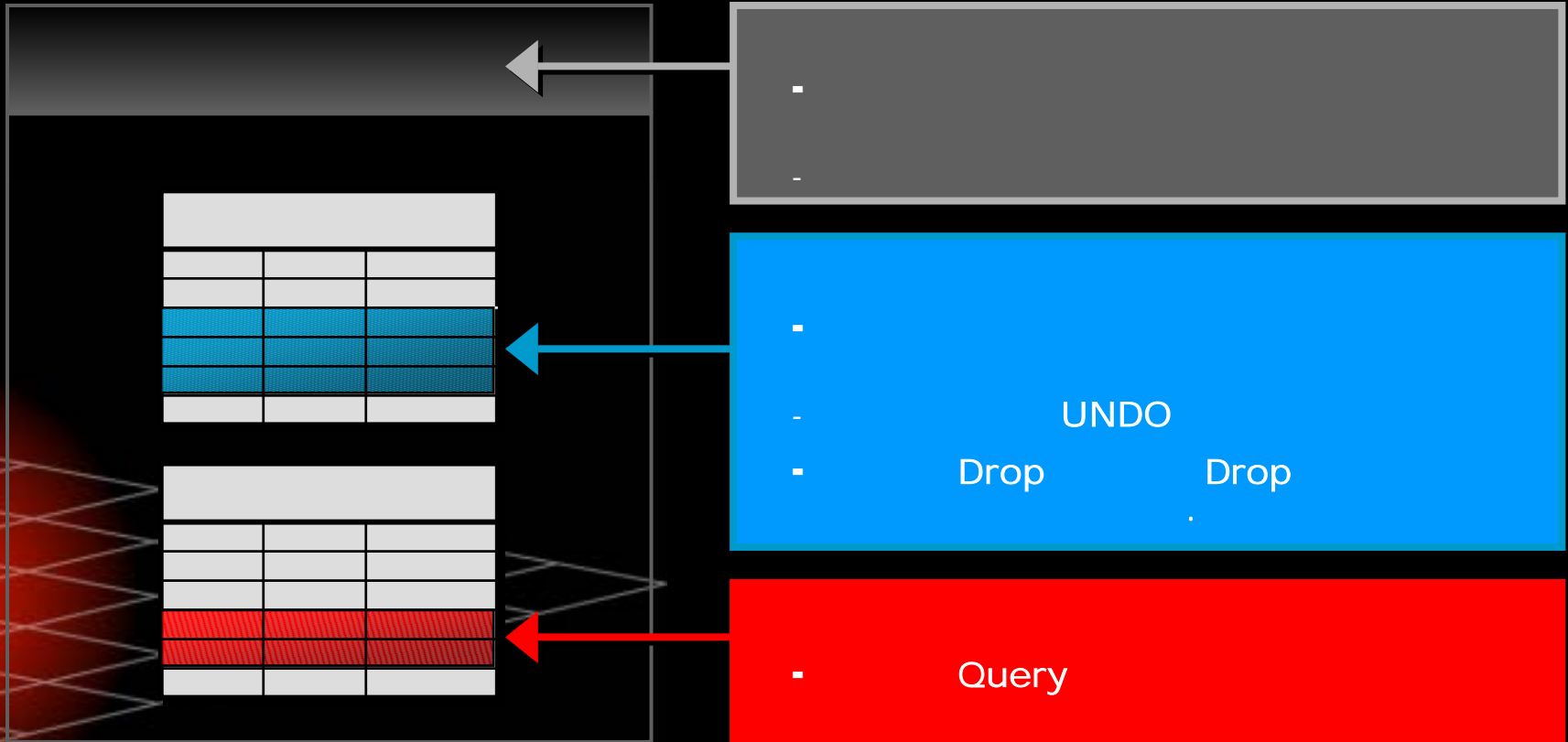
10^g

FlashBack

(Flashback)

10^g

가



10^g

Demo

RAC / ASM

Q U E S T I O N S A N S W E R S

“14” ,
“15” .

<http://www.oracle.com/lang/kr/database/>

<http://otn.oracle.co.kr/>

<http://otn.oracle.com/products/database/oracle10g/index.html>

...

<http://isdapac.oracle.com>

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Oracle Enterprise Manager 10g Grid Control

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