

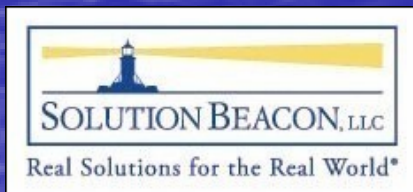


Oracle E-Business Suite Release 11i Apps and 10gR2 RAC

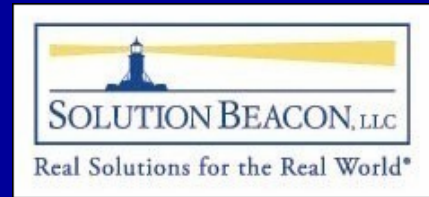
Brian Bent
Applications DBA

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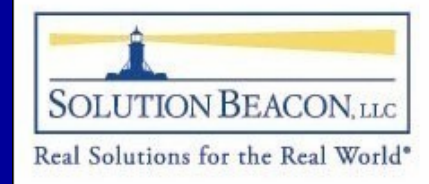
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Audience



◆ Platform

- Windows
- UNIX / Linux

◆ Database

- Oracle8*i* (Desupported July 2006)
- Oracle9*i* (Desupport scheduled July 2007)
- 10*g* (Required for Release 12)



Agenda



◆ 10gR2

◆ RAC & ASM with Release 11i

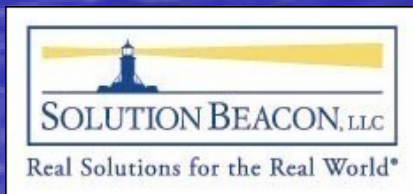
◆ Questions & Answers



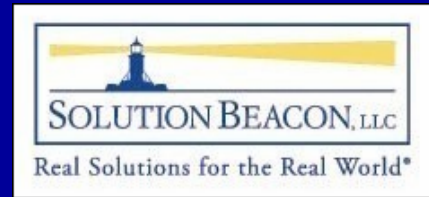
10gR2

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10gR2 Certifications – Release 11i / 12



◆ 11.5.9 CU2

- Interoperability patch 4653217

◆ 11.5.10 CU2

- Interoperability patch 4653225

◆ 10.2.0.2 required when going to Release 12



10gR2 Manageability Features



- ◆ Automatic Workload Repository (AWR)
 - Statspack replacement
- ◆ Automatic Database Diagnostic Monitor (ADDM)
- ◆ Active Session History (ASH)
 - DBA_HIST_ACTIVE_SESS_HISTORY
- ◆ Automatic SGA tuning
 - `sga_target=<SGA size>`
- ◆ Grid Control
 - DB Console
- ◆ Flash Recovery Area



10gR2 Optimizer Features



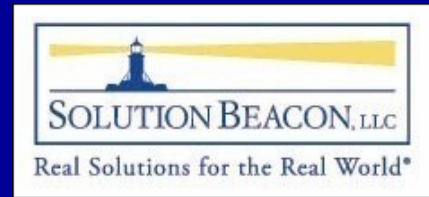
- ◆ Rule Based Optimizer is now obsolete

- ◆ Plan Table
 - CPU and I/O cost
 - TEMP_SPACE

- ◆ Bind variables are now captured
 - v\$sql_bind_capture



10gR2 Performance Improvements



◆ PL/SQL

- code runs 2X faster
- Reduced collections memory footprint (15%)

◆ Converts single row fetches to bulk fetches

◆ Native Compilation

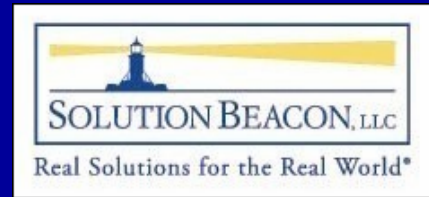
- stored in the database as BLOB data

◆ Library Cache Optimizations Improves Applications performance 5-10%

◆ JDBC performance improved by 10%



10gR2 Resources



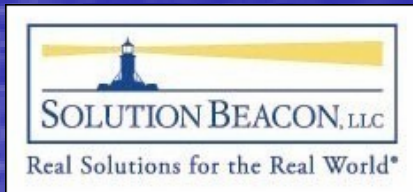
- ◆ MetaLink Note 362203.1 – *Oracle Applications Release 11i with Oracle 10g Release 2*
- ◆ MetaLink Note 362205.1 – *10g Release 2 Export/Import Process for Oracle Applications Release 11i*
- ◆ MetaLink Note 369693.1 – *Using Oracle Applications with a Split Configuration Database Tier on Oracle 10g Release 2*
- ◆ MetaLink Note 216205.1 – *Database Initialization Parameters and Configuration for Oracle Applications 11i*



RAC

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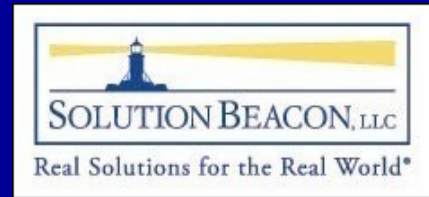
Oracle RAC Business Drivers



- ◆ Potentially Lower Hardware Costs
- ◆ Scalability of Resources
- ◆ Enterprise Grid Computing Solution
- ◆ High Availability Challenges
- ◆ Scalability Challenges
- ◆ Load Balancing Challenges
- ◆ DBA Challenges
- ◆ Storage Management Challenges



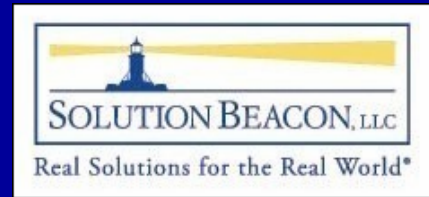
What to Plan For



- ◆ Understand the RAC Architecture
- ◆ Parallel Concurrent Processing
- ◆ Business Certification
- ◆ Load-Testing
- ◆ Change Control
- ◆ Performance Baseline
- ◆ Migration
- ◆ Backup & Recovery
- ◆ DR Strategy
- ◆ Vendor Contacts



RAC Components



◆ Oracle Clusterware

◆ Shared Storage

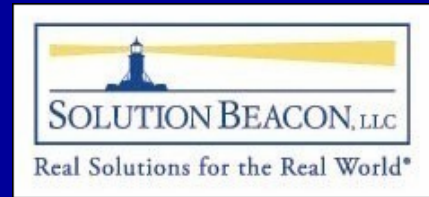
- ASM
- OCFS / OCFS2 / 3rd Party CFS
- RAW Devices
- NFS

◆ Network

- Interconnect
- VIP



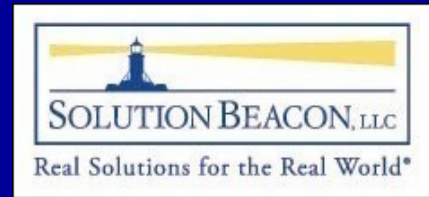
Oracle Clusterware



- ◆ Oracle Clusterware is primarily responsible for managing the high-availability architecture of Oracle RAC with the help of Cluster Ready Services Daemon (CRSD), Oracle Cluster Synchronization Server Daemon (OCSSD) and the Event Manager Daemon (EVMD)
- ◆ Separate ORACLE_HOME
- ◆ Oracle Cluster Registry (OCR)
- ◆ Voting Disk



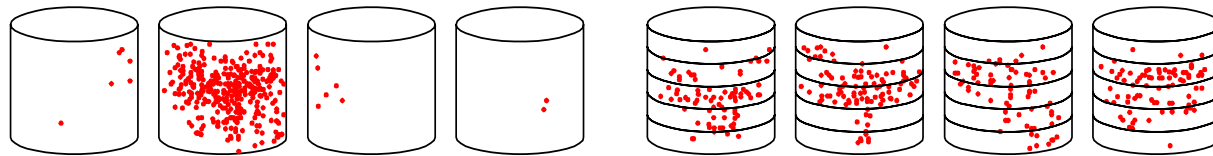
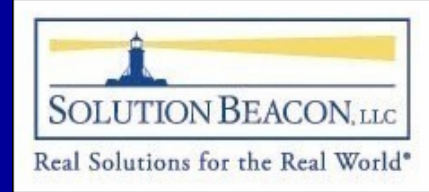
Automatic Storage Management (ASM)



- ◆ Replaces existing Volume Managers / Filesystems
- ◆ Spreads I/O evenly across all available disks
- ◆ Redistributes data automatically
- ◆ Provides for redundant copies of data (alternative to 3rd party RAID functionality)
- ◆ Leverages 3rd party multi-pathing technologies
- ◆ Utilizes RMAN (exclusively) as mechanism for backup & recovery



I/O Tuning is now a Breeze



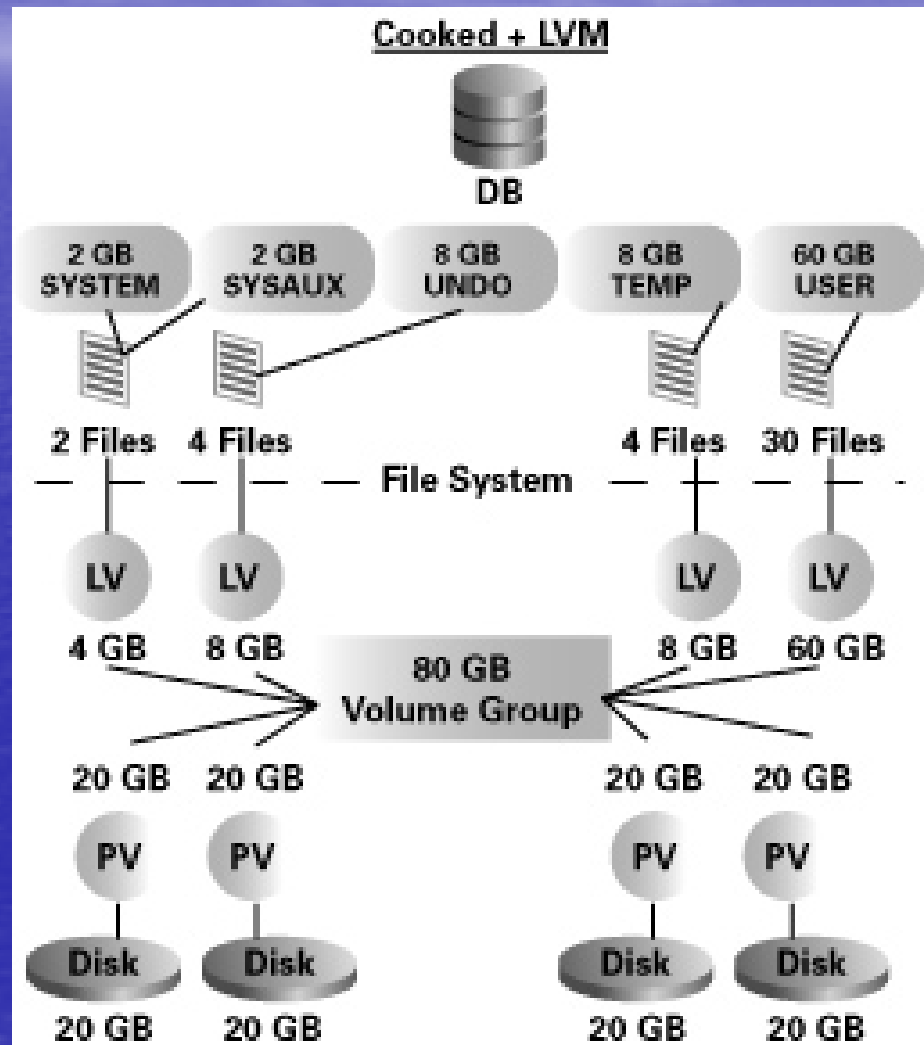
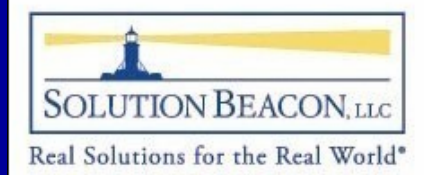
Unstriped Disks

Striped Disks

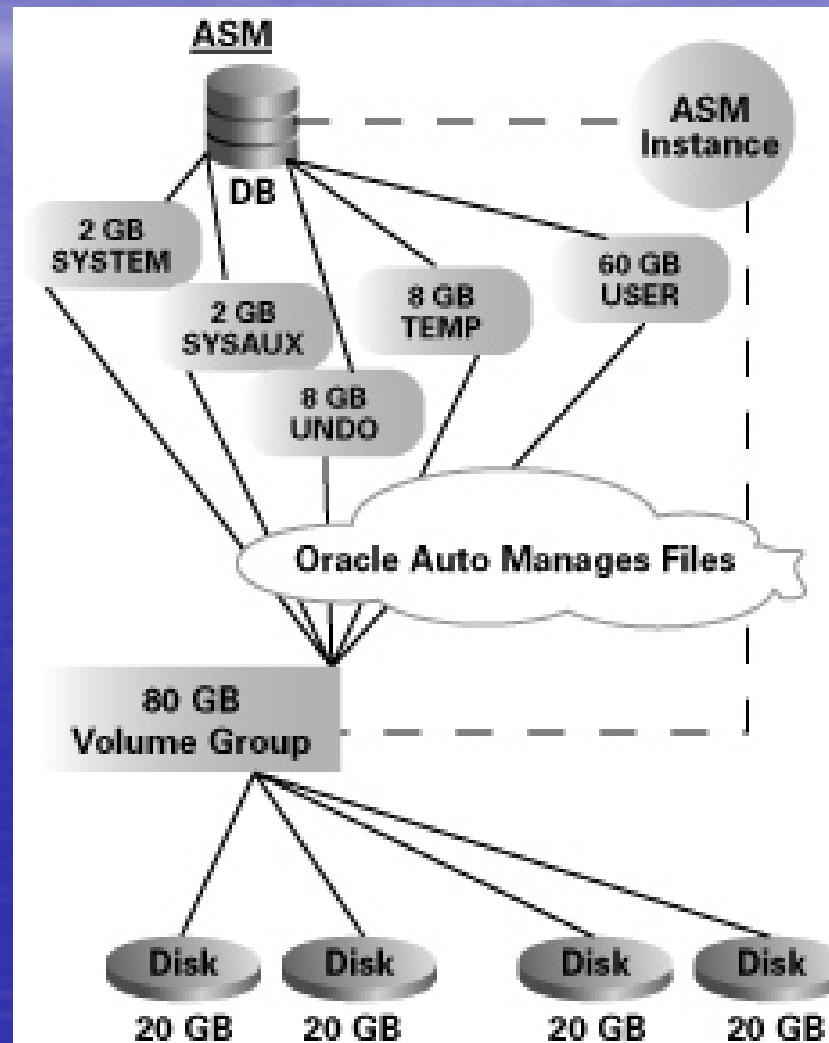
- ◆ Allows dynamic online Storage reconfiguration
- ◆ Efficient relocation of data during rebalance
- ◆ Eliminate manual I/O tuning in all storage configurations



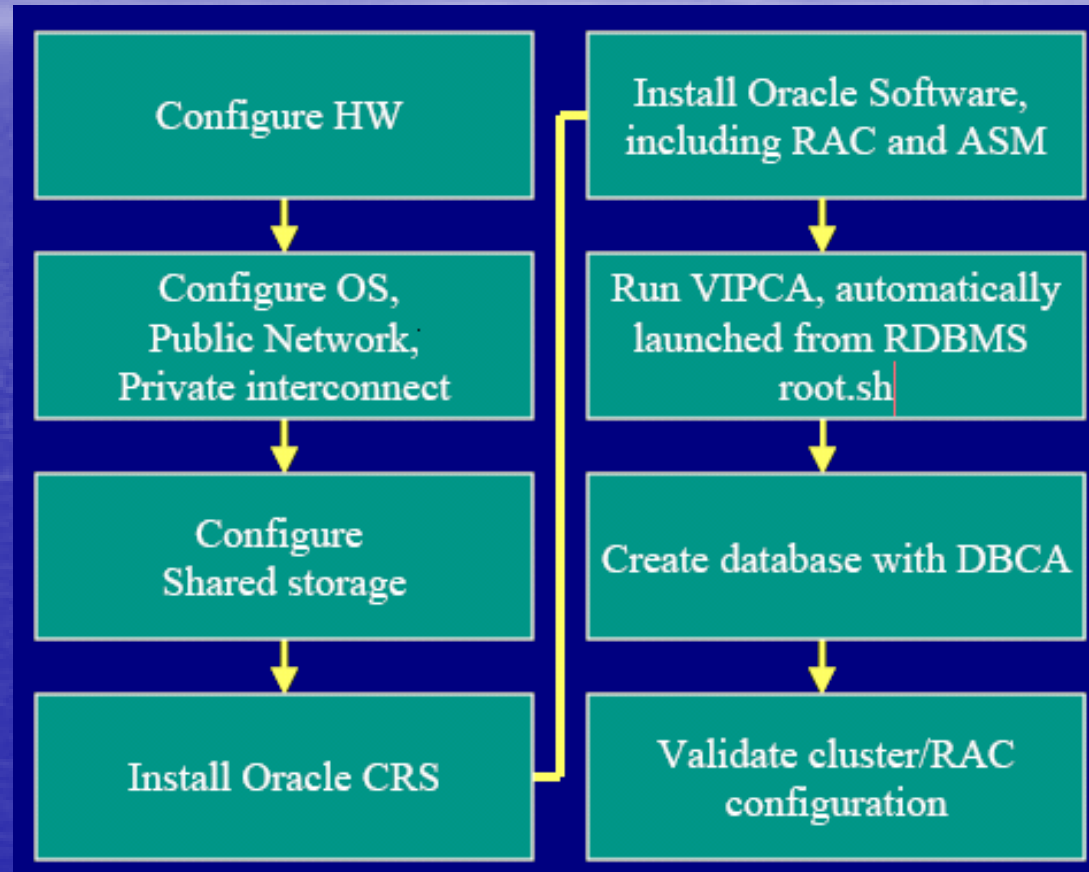
Traditional View of Storage



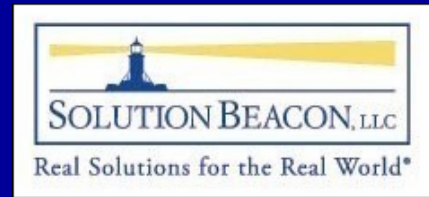
ASM View of Storage



Steps to Setting Up RAC



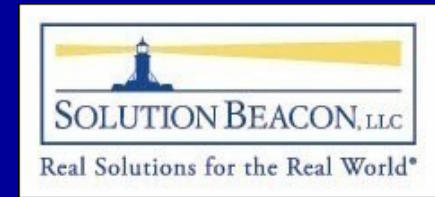
RAC Resources



- ◆ MetaLink Note 362135.1 – *Configuring Oracle Applications Release 11i with 10g R2 RAC and ASM*
- ◆ MetaLink Note 135714.1 – *Script to Collect RAC Diagnostic Information (racdiag.sql)*
- ◆ MetaLink Note 218089.1 – *AutoConfig FAQ*
- ◆ MetaLink Note 285267.1 – *Oracle E-Business Suite 11i and Database FAQ*
- ◆ MetaLink Note 341437.1 – *Business Continuity for Oracle Applications Release 11i Using Oracle Real Application Clusters and Physical Standby Database*



Questions and Answers



Thank you!

Brian Bent

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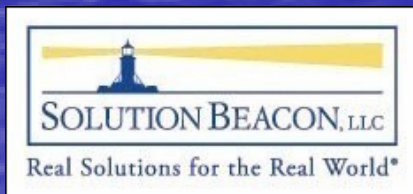
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