Get ready for EBS Release 12 ! Tasks to complete now to ease R12 upgrade process

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Speaker's Background

- Sandra Vucinic
  - Over 14 years of experience with Oracle database, applications, development and administration tools
  - Project roles: Architect, Oracle Apps DBA, Project Lead
  - Director, OAUG Database SIG Board
  - Director, OAUG SysAdmin SIG and Committee Chair, Oracle Tools and Utilities
  - Director, OAUG Middleware SIG Board
  - Director, SROAUG Board
  - Member, OAUG GEO/SIG Committee
  - Presented at OAUG, NCOAUG, CSOAUG, OVOAUG, SROAUG, Apps World and Open World conferences (55+ sessions)
  - Founded VLAD Group, Inc. in March, 2001

Agenda

- Why do we need to upgrade?
- EBS Release 11.5.10.2 vs. 12 Architecture
- Tasks to complete to ease R12 upgrade:
  - Upgrade database to 10g R2
  - Convert tablespaces to OATM model
  - Evaluate impact of R12 on customizations and extensions
  - Introduce XML Publisher and JDeveloper
  - Integrate Discoverer Server Release 10g with EBS 11*i*
  - Configure Oracle iAS Release 10g for external apps (SSO, OID, Portal) and integrate with EBS 11*i*
  - Position for high availability and scalability
  - Evaluate and complete platform change based on ROI

EBS R12 is available, but why do we need to upgrade?

- Evaluate business benefits and cost:
  - Assess R12 functionality and features for “in use” and future planed modules
  - Complete ROI analysis to understand architectural or deployment capabilities in R12 and benefits for system performance, availability, scalability, security and manageability
  - Evaluate upgrade cost, resources and timeline impact on other planed projects

EBS R12 is available, but why do we need to upgrade?

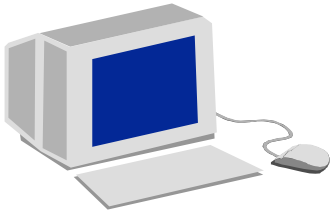
- Review existing 11*i* customizations, extensions and third party integration and assess R12 impact
- Since 11.5.10.2 is a terminal release of 11*i* Oracle development's priority is R12

- Keep in mind Premier Support for:
  - EBS 11.5.8 ends on November 2007
  - EBS 11.5.9 ends on June 2008
  - EBS 11.5.10 ends on November 2009

11*i* Architecture – Components

Release 11.5.10.2 CD Release

Client Tier



Web HTTP Servers

JInitiator

Application Technology Stack

Middle Tier 1.0.2.2.2

Apache

Discoverer Server 4i

9*i*AS ORACLE_HOME 8.1.7

Admin Server

Concurrent Processing Server

Forms Server 6i

Reports Server 6i

8.0.6.3 ORACLE_HOME

Database Tier

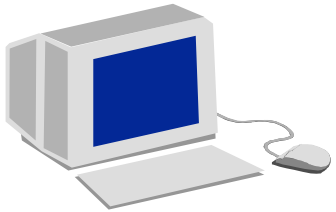
9.2.0.8 Database

9.2.0.8 or 10gR2 ORACLE_HOME

R12 Architecture – Components

Release 12

Client Tier



Web HTTP Servers

Native Sun JRE

Application Technology Stack

Middle Tier

Instance Home

Concurrent Processing Server

Apache 1.3.34

Forms Server 10g

Reports Server 10g

10.1.3.0.0 ORACLE_HOME

10.1.2.0.2 ORACLE_HOME

Database Tier

10.2.0.2 Database

10.2.0.2 ORACLE_HOME

Changes from EBS 11*i* to R12

- New versions of middle tier technology:
  - Applications server: from version 1.0.2.2.2 to version 10.1.3.0.0 (J2EE)
  - Apache: from version 1.3.19 to version 1.3.34
  - Forms and Reports: from version 6*i* to version 10.1.2.0.2
  - Discoverer: from version 4*i* to version 10g (10.1.2.0.2)
  - Servlet Container: from JServ to OC4J
  - JDK version - 1.5.0_08

Changes from EBS 11*i* to R12

- New versions of middle tier technology:
  - Technologies External to EBS R12
    - SSO and OID version 10.1.2.0.2
    - Portal version 10.1.4
- Instance Home (INST_TOP) file system:
  - $INST_TOP = $HOME/inst/apps/<context_name>
- JInitiator is not certified or supported in R12
- New version of database - 10g R2 available with Rapid Install
  - Tablespace model in R12 - OATM

Tasks to complete on EBS 11*i* to ease R12 upgrade:

- Upgrade EBS 11*i* database to 10g R2
  - 10g R2 database is part of EBS R12 technology stack
  - 10g R2 is certified to run with EBS release 11.5.9 (without Demand Planning) and release 11.5.10
  - The latest certified 10g R2 database release- 10.2.0.3 with EBS 11*i*
  - Premier Support ended for database version 9*i* on 7/31/07
  - Oracle waived an Extended Support fee for 9*i* database from August 1, 2007 to July 31, 2008
  - To upgrade follow Metalink Note: Oracle Applications Release 11i with Oracle Database 10g Release 2 (10.2.0), Doc ID: 362203.1

Tasks to complete on EBS 11*i* to ease R12 upgrade:

- Convert tablespaces to OATM model
  - OATM is the new Tablespace model certified with EBS 11*i*.
  - Available out-of-the-box with 11.5.10 Rapid Install
  - Reduces number of tablespaces from 2 per product to 12 tablespaces (including 3 systems tablespaces: undo, system and temp) for all modules
  - Supports locally managed tablespaces
  - Database objects mapped to tablespaces bases on: object size, life span, access methods and locking granularity

Tasks to complete on EBS 11*i* to ease R12 upgrade:

- Convert tablespaces to OATM
  - Eases maintenance and reduces space usages
  - Supports RAC (Real Application Clusters)
  - OATM Migration Utility is available on earlier 11***i*** releases
  - To migrate to OATM as a standalone patch 3381489, with a prerequisite of AD.H minipack and a minimum database version 9.2.0.4.

Tasks to complete on EBS 11*i* to ease R12 upgrade:

- Evaluate impact of R12 on customizations and extensions
  - Catalog all customizations deployed in production
  - Technologies disabled in Release 12:
    - "mod_plsql"
    - Oracle Reports Server Reports
    - Oracle Graphics Integration with Oracle Forms
    - Oracle Applications Framework pages in AK repository
  - Review Metalink Note: Preparing Custom Development for Next EBS Release, Doc ID: 374398.1

Tasks to complete on EBS 11*i* to ease R12 upgrade:

- Introduce XML Publisher and JDeveloper to developers
  - In R12 HTML reports should be converted to XML Publisher, so start early
  - Reports Server only accessible from Concurrent Manager in R12
  - Any Reports integrated Oracle Graphics need to be re implemented with XML Publisher
  - Use JDeveloper release 10.1.3 for OA- Framework Personalization
    - Oracle JDeveloper 10g with OA Extension- Patch 5856648 available on Metalink

Tasks to complete on EBS 11*i* to ease R12 upgrade:

- Integrate Discoverer Server Release 10g with EBS 11*i*
  - Supported version of Discoverer for EBS 11*i* and R12 – 10.1.2.0.2
  - Discoverer Server 4*i* desupported on 10/31/06
  - Implement Discoverer 10g on a separate server. Conflict between 4*i* and 10g Visibroker releases
  - For implementation steps and tasks review Metalink Note: Discoverer 10.1.2 with Oracle Applications 11*i*, Doc ID: 313418.1

Tasks to complete on EBS 11*i* to ease R12 upgrade:

- Configure Oracle iAS Release 10g for external apps (SSO, OID, Portal) and integrate with EBS 11*i*
  - Supported version of SSO and OID for EBS 11*i* and R12 – 10.1.2.0.2
    - For implementation steps and tasks review Metalink Note: Installing Oracle Application Server 10g with Oracle E-Business Suite Release 11*i*, Doc ID: 233436.1.
  - Supported version of Portal for EBS 11*i* and R12 – 10.1.4.0.0
    - For implementation steps and tasks review Metalink Note: Using Oracle Portal 10g with Oracle E-Business Suite 11*i*, Doc ID: 305918.1

Tasks to complete on EBS 11*i* to ease R12 upgrade:

- Position for high availability and scalability
  - For scalability and to reduce maintenance cost implement "shared appl tier" in your multi-node 11*i* environment:
    - Review Oracle Metalink Note: Sharing the Application Tier File System in Oracle Applications 11*i*, Doc ID: 233428.1 for implementation steps and tips
  - For high availability consider implementing RAC for your 10g R2 EBS 11*i* database
    - If you plan to use ASM feature of 10g R2 database, review Metalink Note: Configuring Oracle Applications Release 11*i* with 10g R2 RAC and ASM, Doc ID: 362135.1

Tasks to complete on EBS 11*i* to ease R12 upgrade:

- Evaluate and complete platform change based on ROI analysis
  - Upgrade to R12 may require a new hardware
  - Evaluate existing hardware and complete capacity planning for R12 ahead of time
  - If determined a new hardware is needed, evaluate options and consider migration to Linux OS
  - Proven migration process to Linux:
    - To migrate 10g database review Metalink Note:362205.1
    - To migrate EBS 11*i* review Metalink Note:238276.1

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http://blogs.oracle.com/schan

Questions

Thank You

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