Oracle on VMware Infrastructure and Implementation for Administrators

Course Summary

Description
This foundation course provides for the installation of Oracle on VMware and customizing it for a particular environment. This class will cover the architecture and function of each layer of Oracle, VMware and Linux. This course includes hands-on labs and workshops where the student can become familiar with Oracle, VMware and Linux.

Objectives
At the end of this course, students will be able to:

- Installing and configuring Oracle in a VMware environment
- Migration of Oracle to a VMware Environment
- Planning for High Availability, Fail-Over, Disaster Recovery and Backups using VMware and Oracle tools.
- Monitoring and Administering Oracle in a VMware environment using VMware, Oracle and Linux tools.

Topics

- Overview of Physical Infrastructure
- Overview of Virtual Infrastructure
- Overview of Linux Kernel
- Overview of the Oracle Architecture
- Configuration of Oracle on VMware vSphere
- Administration of Oracle on VMware
- Monitoring Oracle on VMware
- Troubleshooting Oracle on VMware

Audience
This class is designed for the DBA, system administrator, developer, storage administrator or technical consultant who wishes to learn how to implement, monitor and administer Oracle in a VMware environment for maximum performance.

Prerequisites
Working knowledge of Oracle 11gR2 database and some experience of VMware is highly recommended.

Duration
Five days
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Course Outline

I. Overview of Physical Infrastructure

II. Overview of Virtual Infrastructure

III. Overview of Linux Kernel

IV. Overview of the Oracle Architecture

V. Configuration of Oracle on VMware vSphere
   A. Installation Considerations
   B. High Availability and Disaster Recovery
   C. Oracle RAC on VMware
   D. Oracle Data Guard
   E. Oracle Golden Gate

VI. Administration of Oracle on VMware
   A. Backups – Oracle, Database, Operating System
   B. VMware vSphere Utilities
   C. Snapshots on VMware
   D. Cloning on VMware

VII. Monitoring Oracle on Vmware
    A. Resource considerations
    B. Oracle tools
    C. OEM Cloud Control 12c
    D. OEM Database Control
    E. AWR Reports
    F. Linux Tools
    G. VMware vSphere/ESXi tools
    H. vCenter and vCenter Operations
    I. 3rd Party Tools

VIII. Troubleshooting Oracle on Vmware
     A. Determining origin of issue (Oracle, Linux, VMware)
     B. Storage Performance
     C. Infrastructure Performance