

## 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