

## **Managing Oracle on Linux**

**Duration** 3 Days

### **What you will learn:**

This course is designed to give the Database Administrator a firm understanding of the components required to successfully deploy an Oracle9i Database on Linux. Students will learn how to configure the Linux operating system for optimal performance with an Oracle9i database. Then they will install and create an Oracle9i database on Linux. The students will also learn how to tune the Oracle9i database to take advantage of the Linux operating system and the Enterprise level features of the OS. Basic administration OS tasks as they relate to the database will also be covered; file system choices, automated startup and shutdown scripts, network configuration, customizing the database for Linux, and configuring Oracle Enterprise Manager. Lectures are reinforced with hands-on practices designed to walk the student through the entire installation, tuning and configuration process.

This course counts towards the Hands-on course requirement for the Oracle 9i Database Administrator and Oracle Database 10g Administrator Certification. Only instructor-led inclass or instructor-led online formats of this course will meet the Certification Hands-on Requirement. Self Study CD-Rom and Knowledge Center courses are excellent study and reference tools but DO NOT meet the Hands-on Requirement for certification.

### **Audience:**

- Technical Consultant
- Database Designers
- Database Administrators

### **Course Objectives:**

- Install Oracle9i on the Linux
- Configure Oracle9i on Linux
- Manage and Tune Oracle9i on Linux
- Configure the Linux OS for Oracle 9i

### **Course Topics:**

#### **Oracle9i on Linux: Overview**

- Select a supported Linux distribution and version
- Select the proper Oracle database versions

- Identify Enterprise Linux level distributions

## **Preparing the Operating System**

- Configure the operating system (OS) kernel
- Install the required OS patches
- Configure the Linux network
- Select a file system
- Configure the X Window System

## **Installing Oracle9i Software**

- Create the OS user oracle
- Configure the Oracle9i OS environment
- Install Oracle9i software by using the Oracle Universal Installer (OUI)
- Create a General Purpose database with OUI
- Install patch sets and temporary patches

## **Creating a Custom Oracle9i Database**

- Create a custom Oracle9i database
- Configure and start Oracle Net components

## **Installing and Configuring Enterprise Manager**

- Configure Oracle Management Server (OMS)
- Discover Oracle9i databases and nodes
- Configure the HTTP server and Enterprise Manager Reporting
- Configure and test jobs and events by using Oracle Enterprise Manager

## **Customizing the Oracle9i Database**

- Create automated startup/shutdown scripts
- Automate tasks using scheduling tools
- Configure Linux startup and shutdown sequence
- Create automated startup/shutdown scripts

## **Linux Measurement Tools**

- Identify and use basic measurement tools
- Measure the CPU load
- Gather memory usage statistics
- Gather input/output (I/O) load statistics
- Collect network activity statistics

## **Oracle9i Measurement Tools**

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- Use Statspack with operating system (OS) tools
  - Use Oracle Enterprise Manager tools with OS tools
  - Configure and measure System Global Area (SGA) and Program Global Area (PGA) usage

### **Tuning Oracle9i and Linux**

- Evaluate file systems
- Tune supported file systems
- Configure initialization parameters
- Implement asynchronous input/output (I/O)
- Implement advanced memory management techniques