Oracle Database 11g: RAC Administration Release 2

Duration: 3 Days

What you will learn

This Oracle Database 11g: RAC Administration course deep dives into RAC database administration in the Oracle Grid Infrastructure environment. You'll learn to administer cluster databases using Enterprise Manager and command-line utilities like SRVCTL, CRSCTL and SQL*Plus.

Learn To:

Administer both policy and administrator-managed RAC databases.

Install and configure 11gR2 RAC software.

Describe backup and recovery in a RAC environment.

Create and configure a RAC database.

Use services.

Describe Oracle Database 11gR2 RAC enhancements and new features.

Study the new connection architecture and how to make those connections highly available.

Explore Backup and Recovery Issues

Expert Oracle University instructors will also help you develop an understanding of backup and recovery issues relative to cluster database environments. It's recommended that you attend the prerequisite Oracle Grid Infrastructure 11g: Manage Clusterware and ASM course before this RAC Administration course. This course is based on Oracle Database 11g Release 2.

Fulfills Oracle Certification Requirements

This course fulfills the training requirement for an Oracle Certification Path. Only Live Virtual Class, Classroom Training or Training On Demand courses will fulfill the requirement. Self-Study Courses and Knowledge Center courses do not fulfill the training requirement.

Audience
Data Warehouse Administrator
Database Administrators
Database Designers
Functional Implementer
Support Engineer
System Analysts
Technical Administrator
Technical Consultant

Required Prerequisites

Oracle Database Administration experience

Oracle Database 11g: Administration Workshop I Release 2

Oracle Grid Infrastructure 11g: Manage Clusterware and ASM Release 2 NEW

Suggested Prerequisites
Oracle Database 11g: Administration Workshop II Release 2

Course Objectives

Install Oracle 11gR2 software and create RAC database

Manage RAC databases

Manage backup and recovery for RAC

Determine RAC-specific tuning components

Configure and manage services in a RAC environment

Describe high availability architectures

Course Topics

Real Application Clusters Database Installation
Installing The Oracle Database Software
Creating A Cluster Database
Post–database Creation Tasks
Single-Instance Conversion Using the DBCA
Single-Instance Conversion Using rconfig
Background Processes Specific to Oracle RAC

Oracle RAC Administration
Enterprise Manager Cluster Database Pages
Redo Log Files In A RAC Environment
Undo Tablespaces In A RAC Environment
Starting And Stopping RAC Databases And Instances
Initialization Parameters In A RAC Environment
Transparent Data Encryption and Wallets in RAC
Quiescing RAC Databases

Managing Backup and Recovery for RAC
Protecting Against Media Failure
Parallel Recovery in RAC
Archived Log File Configurations

RAC Backup and Recovery Using EM
Archived Redo File Conventions in RAC
Channel Connections to Cluster Instances
Distribution of Backups

Monitoring and Tuning the RAC Database
Determining RAC-Specific Tuning Components
Tuning Instance Recovery in RAC
RAC-Specific Wait Events, Global Enqueues, and System Statistics
Implementing the Most Common RAC Tuning Tips
Using the Cluster Database Performance Pages
Using the Automatic Workload Repository in RAC
Using Automatic Database Diagnostic Monitor in RAC

Services
Configure and Manage Services in a RAC environment
Using Services with Client Applications
Using Services with the Database Resource Manager
Use Services with the Scheduler
Configuring Services Aggregation and Tracing
Managing Services From the Command Line
Managing Services With Enterprise Manager

Design for High Availability
Designing a Maximum Availability Architecture
Determine the Best RAC and Data Guard Topologies
Data Guard Broker Configuration files in a RAC Environment
Identifying Successful Disk I/O strategies