

Oracle Database 11g: RAC Administration Release 2

Duration: 3 Days

What you will learn

In this course, students will learn about RAC database administration in the Oracle Grid Infrastructure environment. Students will learn to administer cluster databases using Enterprise Manager and command-line utilities like SRVCTL, CRSCTL, and SQL*Plus. Students will study the new connection architecture and how to make those connections highly available. Backup and recovery issues relative to cluster database environments will also be studied. Students are strongly advised to 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.

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

This course counts towards the Hands-on course requirement for the Oracle Database 10g Administrator Certification.

Only instructor-led in-class or instructor-led online formats of this course will meet the Certification Hands-on Requirement. Self Study CD-Rom and Knowledge Center courses DO NOT meet the Hands-on Requirement.

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Data Warehouse Administrator

Database Administrators

Database Designers

Functional Implementer

Support Engineer

System Analysts

Technical Administrator

Technical Consultant

Prerequisites

Required Prerequisites

Oracle Database Administration experience

Suggested Prerequisites

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

Oracle Database 11g: Administration Workshop II DBA Release 2

Oracle Database 11g: Administration Workshop I DBA 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

Related Courses

Oracle Database 11g: RAC Administration - Self-Study Course