

Oracle Database 11g: RAC Administration

Days of Training: 5

Overview

This course offers students an introduction to the general features and capabilities of Oracle Database 11g Release 1 for Oracle Real Application Clusters (RAC). Students learn how to install and administer Oracle Clusterware, Real Application Clusters, and Automatic Storage Management. Students also learn how to administer their Database in a Real Application Clusters environment using Enterprise Manager Grid Control. Increase your efficiency by learning how to configure and use database services as well as the Load Balancing Advisory in a RAC environment. Learn how to add and remove nodes in clusters and how to patch both Oracle Clusterware and Real Application Clusters software in a rolling fashion.

Prerequisites

- General understanding of database administration
- Oracle Database 11g: Administration Workshop I
- Oracle Database 11g: New Features for Administrators

At Course Completion

Upon successful completion of this course, students will be able to:

- Install Oracle Clusterware and Real Application Clusters.
- Administer a RAC Database.
- Administer Database Services in a RAC environment.
- Administer Oracle Clusterware.
- Add/Remove a node to/from a cluster.
- Patch Oracle Clusterware and RAC software.

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Lesson 1: Oracle Clusterware Installation

Oracle RAC 11g Installation
Cluster Setup Tasks
Using Raw Partitions
Cluster Configuration

Lesson 2: RAC Installation

Installing Automatic Storage Management
Configure ASM Storage
Install the Database Software

Lesson 3: Database Creation

Management Agent Installation
Storage Options for Database Files
Create the Database
Single Instance to RAC Conversion

Lesson 4: RAC DB Administration

Cluster Database Instance Administration
Topology Viewer
Automatic Undo Management and RAC Quiescing RAC Databases
Transparent Data Encryption and Wallets in RAC
ASM Instance and Crash Recovery in RAC
Backup and Recover a RAC DB
Protecting Against Media Failure
Oracle Recovery Manager

Lesson 5: RAC DB Monitoring and Tuning

CPU and Wait Time Tuning Dimensions
Dynamic Reconfiguration
ADDM Analysis

Lesson 6: Services

Workload Dispatching
High Availability of Services in RAC
Services and Resource Manager with EM
Change Service Thresholds
Using Distributed Transactions with RAC

Lesson 7: High Availability of Connections

Fast Application Notification
Load Balancing Advisory
Transparent Application Failover

Lesson 8: Oracle Clusterware Administration

Controlling the Oracle Clusterware Stack
Back Up and Recover Your Voting Disks
Back Up and Recover Oracle Cluster Registry
Prevent Automatic Instance Restarts

Lesson 9: Diagnosing the Oracle

Clusterware components
Oracle Clusterware Main Log Files
RAC Diagnostic Infrastructure

Lesson 10: Node Addition/Removal

Add and Delete Nodes and Instances
Clone Oracle Clusterware

Lesson 11: Design for High Availability

Maximum Availability Architecture
RAC and Data Guard Topologies
Extended RAC Connectivity
Extended RAC disk mirroring
Patch your RAC system in a rolling fashion

Lesson 12: Workshop

Extend your cluster using Grid Control
Patch Oracle Clusterware

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