Oracle Database 11g: RAC Administration

Duration: 5 Days

What you will learn

This course will introduce you to the general features and capabilities of Oracle Database 11g Release 1 for Oracle Real Application Clusters (RAC). You'll learn how to install and administer Oracle Clusterware and more.

Learn 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.

Administer your Database in a Real Application Clusters environment using Enterprise Manager Grid Control.

Configure and use database services, along with the Load Balancing Advisory in a RAC environment.

Benefits to You

Ensure fast, reliable, secure and easy to manage performance. Optimize database workloads, lower IT costs and deliver a higher quality of service by enabling smooth and rapid consolidation within your Datacenter.

Add & Remove Nodes in Clusters

This course will also teach you how to add and remove nodes in clusters. Learn how to patch both Oracle Clusterware and Real Application Clusters software in a rolling fashion.

This course is appropriate for a 10g audience, too. There are few minor changes between 10g and 11g features.

Audience
Data Warehouse Administrator
Database Administrators
Support Engineer
Technical Administrator

Related Training

Required Prerequisites

General understanding of database administration

Identify Real Application Clusters components

Install, create, administer, and monitor a Real Application Clusters database

Use configuration and management tools for Real Application Clusters databases

Setup services for workloads management, and applications high availability

Develop a backup and recovery strategy for Real Application Clusters databases

Configure and monitor Oracle Clusterware resources

Review high availability best practices

Course Topics

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

RAC Installation
Installing Automatic Storage Management
Configure ASM Storage
Install the Database Software

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

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

RAC DB Monitoring and Tuning
CPU and Wait Time Tuning Dimensions
Dynamic Reconfiguration
ADDM Analysis

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

High Availability of Connections
Fast Application Notification
Load Balancing Advisory
Transparent Application Failover

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

Diagnosing the Oracle Clusterware components
Oracle Clusterware Main Log Files
RAC Diagnostic Infrastructure

Node Addition/Removal
Add and Delete Nodes and Instances
Clone Oracle Clusterware

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

Workshop
Extend your cluster using Grid Control
Patch Oracle Clusterware