

Oracle Database 11g: RAC Administration

Duración: 5 días

Lo que aprenderá

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.

This course counts toward the Hands-on course requirement for the following certifications

Oracle Database 11g Administrator Certification

Oracle Database 10g: Real Application Clusters Administrator Certified Expert

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.

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

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

Data Warehouse Administrator
Database Administrators
Support Engineer
Technical Administrator

Prerequisitos

Prerequisitos Requeridos

Oracle Database 11g: New Features for Administrators

Oracle Database 11g: Administration Workshop I

Prerequisitos Sugeridos

General understanding of database administration

Objetivos Del Curso

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

Temas Del Curso

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