

Oracle Database 12c R2: High Availability New Features Ed 1 NEW

Duration: 4 Days

What you will learn

The Oracle Database 12c R2: High Availability New Features course covers High Availability new features introduced in the Oracle Database 12c Release 2. Focus areas include Clusterware, ASM, ACFS, RAC, and Data Guard.

Learn To:

Configure and administer the Oracle Database 12c R2 high availability new features contained in Oracle Clusterware Infrastructure (including Automatic Storage Management [ASM] and Cloud FS).

Configure and administer RAC new features.

Describe the new features contained in Oracle Data Guard.

Describe Oracle Data Guard Enhancements.

Gain an understanding of the Oracle Database Exadata Cloud Service.

Gain an understanding of Clusterware Manageability Enhancements.

Gain an understanding of ASM New Features.

Gain an understanding of ACFS Manageability New Features & Performance Enhancements.

Gain an understanding of Real Application Cluster New Features.

Gain an understanding of Data Guard and Broker New Features.

Benefits To You

By enrolling in this course, you'll be able to practice using Oracle's new clustering technologies and gain valuable experience through hands-on demos and labs.

Audience

Administrator

Data Warehouse Administrator

Database Administrators

Sales Consultants

Support Engineer

Technical Administrator

Related Training

Required Prerequisites

Working knowledge of Oracle Database 12c Clusterware, ASM and RAC

Course Objectives

Describe the Oracle Database 12c R2 high availability new features contained in Clusterware Infrastructure

Gain an understanding of the Oracle Database Exadata Cloud Service

Learn how to perform essential administration tasks for each new feature

Learn how to perform essential installation and configuration tasks for each new feature

Describe Data Guard Enhancements

Course Topics

Cluster Types and Installation Options

Stand-alone (Traditional Cluster)

Oracle Domain Services Cluster

Oracle Member Clusters

Oracle Extended Clusters (Stretch Cluster)

Installation Options

Shared Grid Naming Service (GNS) High Availability

Shared GIMR

Rapid Home Provisioning Enhancements

Clusterware Manageability Enhancements

Enhanced (Reasoned) Command Evaluation (Why-If)

Clusterware Resource Groups

Server Weight-Based Node Eviction

Load-Aware Resource Placement

Clusterware Monitoring and Miscellaneous Enhancements

Oracle Autonomous Health Framework

Cluster Resource Activity Log

Private Network IPv6 Support

Oracle ASM Manageability New Features

Flex Disk Groups

File Groups

Quota Groups

Prioritized Rebalancing for Oracle ASM File Groups

Oracle ASM Mirror Splitting

Prioritized Rebalancing for File Groups

Oracle ASM Extended Support for 4K Sector Size

Oracle IOServer: DBs on Leaf Nodes

ACFS Manageability New Features

Snapshot Enhancements

Oracle ACFS Automatic Resize

Oracle ACFS Metadata Acceleration

Oracle ACFS NAS Maximum Availability eXtensions

ACFS Performance Enhancements

- Oracle ACFS Defragger
- Oracle ACFS Compression
- Oracle ACFS Sparse Files
- Oracle ACFS Metadata Acceleration

Oracle RAC New Features

- Separation of Duty for Administering Oracle RAC
- Oracle Real Application Clusters Reader Nodes
- SCAN Listener and HTTP Protocol
- Service-Oriented Buffer Cache Access
- In-Memory FastStart
- QoS Support for Administrator-Managed Databases

Data Guard Configuration Enhancements

- Standby Database Creation Using DBCA
- New Initialization Parameters
- Detecting Lost Writes Using DBMS_DBCOMP.DBCOMP
- Rolling Upgrade Support for Multitenant Databases
- Upgrading Databases Using Oracle Label Security or Database Vault With Oracle Data Guard
- Far Sync Instance Creation using RMAN DUPLICATE with FARSYNC Option
- Automatic Propagation of Password File Changes
- Support of In-Memory Column Store in Active Data Guard Environments

Data Guard Broker Enhancements

- Multiple Fast-Start Failover Target Selection
- High Availability Observer Configuration
- Configurable Property, DataGuardSyncLatency
- Data Validation and Lost Write Detection using VALIDATE DATABASE DATAFILE
- Validation of Database Files on both Primary and Standby using the VALIDATE DATABASE DATAFILE command
- Using Broker Property ApplyInstances to Engage Multi-Instance Redo Apply
- DGMGRL Command Script Support @name
- Enhanced Broker Support for Application Continuity