

# ORACLE DEV 11G RAC



## CURRICULUM

### » Oracle Grid Infrastructure Architecture

- Oracle Clusterware Concepts
- What is Clustere?
- Oracle Clusterware?
- Oracle Clusterware Architecture
- Grid Plug and Play (GPnP)
- Grid Naming Service (GNS)
- Single Client Access Name (SCAN)

### » Grid Infrastructure Installation

- Shared Storage Planning for Grid Infrastructure 2-4
- OCR and Voting Disk in ASM
- Checking System Requirements
- Checking Network Requirements
- Software Requirements (Kernel)
- Software Requirements: Packages
- Creating Groups and Users

### » Administering ASM

- ASM Initialization Parameters
- Starting and Stopping ASM Instances by Using srvctl.
- Starting and Stopping ASM Instances by Using SQL\*Plus.
- Starting and Stopping ASM Instances by Using ASMCA and ASMCMD.
- Creating a New Disk Group
- Mounting and Dismounting Disk Groups
- Dropping Disk Groups
- ASM Dynamic Performance Views

### » Real Application Clusters Database Installation

- Installing the Oracle Database Software 11-3
- Creating the Cluster Database 11-7
- Cluster Database Management Options 11-10
- Initialization Parameters 11-15
- Database Storage Options 11-16
- Create the Database 11-17
- Background Processes Specific to Oracle RAC 11-21
- Single Instance to RAC Conversion 11-23

## » **Administering Oracle Clusterware**

- CRSCTL : manages clusterware-related operations
- SRVCTL : manages Oracle resource-related operations

## » **Managing Oracle Clusterware**

- Adding the Node in the Cluster.
- Deleting the Node in the Cluster.

## » **Troubleshooting Oracle Clusterware**

- Golden Rule in Debugging Oracle Clusterware
- Oracle Clusterware Main Log Files
- Diagnostics Collection Script
- Cluster Verify Utility
- Determining Which Process Caused Reboot
- Using ocrdump to View Logical Contents of the OCR
- Checking the Integrity of the OCR
- OCR-Related Tools for Debugging

## » **Upgrading and Patching Oracle RAC**

- Configuring the Software Library
- Setting Up Patching
- Obtaining Oracle RAC Patches
- Downloading Patches
- Reduced Down-Time Patching for Cluster Environments
- Rolling Patches

## » **Oracle RAC Administration**

- Redo Log Files and RAC
- Automatic Undo Management and RAC
- Starting and Stopping RAC Instances
- Starting and Stopping RAC Instances with SQL\*Plus
- Starting and Stopping RAC Instances with srvctl
- Terminating Sessions on a Specific Instance
- How SQL\*Plus Commands Affect Instances

## » **Managing Backup and Recovery for RAC**

- Protecting Against Media Failure
- Media Recovery in Oracle RAC
- Parallel Recovery in RAC
- Archived Log File Configurations
- RAC and the Fast Recovery Area

## » **RAC Database Monitoring and Tuning**

- CPU and Wait Time Tuning Dimensions
- RAC-Specific Tuning
- RAC and Instance or Crash Recovery
- Instance Recovery and Database Availability
- Instance Recovery and RAC
- Analyzing Cache Fusion Impact in RAC
- Typical Latencies for RAC Operations
- Wait Events for RAC
- Wait Event Views
- Global Enqueue Waits: Overview

## » Services

- Oracle Services
- Services for Policy- and Administrator-Managed Databases
- Default Service Connections
- Create Service with Enterprise Manager
- Create Services with SRVCTL
- Manage Services with Enterprise Manager
- Managing Services with EM
- Manage Services with srvctl

## » Design for High Availability

- Causes of Unplanned Down Time
- Causes of Planned Down Time
- Oracle's Solution to Down Time
- RAC and Data Guard Complementarity
- Maximum Availability Architecture
- RAC and Data Guard Topologies
- RAC and Data Guard Architecture
- Data Guard Broker (DGB) and Oracle Clusterware (OC) Integration

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