

## Oracle RAC Course Content

### Overview of the Oracle RAC

- ❖ 11a:
- ❖ Grid Infrastructure Concepts
- ❖ What is a Cluster
- ❖ Grid Foundation Components
- ❖ Oracle Clusterware Architecture
- ❖ Oracle Clusterware Software and Storage
- ❖ Describe ASM Architecture
- ❖ Creating and Managing ASM Disk Groups
- ❖ Creating and Managing ASM Cluster Filesystems
- ❖ Job Role Separation
- ❖ Grid Infrastructure Installation and Configuration
- ❖ Hardware Requirements
- ❖ Network Requirements
- ❖ DNS and DHCP Configuration
- ❖ Grid Plug and Play Considerations
- ❖ Single Client Access Names
- ❖ Post installation tasks
- ❖ 12b:

### Administering Oracle Clusterware

- ❖ Managing Clusterware with Enterprise Manager
- ❖ Determining the Location of the Oracle
- ❖ Clusterware Configuration Files
- ❖ Backing Up and Recovering the Voting Disk
- ❖ Adding, Deleting, or Migrating Voting Disks
- ❖ Locating the OCR Automatic Backups
- ❖ Oracle Local Registry
- ❖ Migrating OCR Locations to ASM
- ❖ Managing Network Settings
- ❖ Managing Oracle Clusterware
- ❖ 13c:

### Prerequisite Steps for Extending a Cluster

- ❖ Using addNode.sh to Add a Node to a Cluster
- ❖ Rolling Patches, And Rolling Upgrades
- ❖ Comparing Software Versions With the Active Version
- ❖ Installing A Patchset With the OUI Utility
- ❖ Installing A Patch With The opatch Utility
- ❖ Oracle Clusterware High Availability
- ❖ Oracle Clusterware high availability components
- ❖ Contrasting policy-managed and administration managed databases
- ❖ Troubleshooting Oracle Clusterware
- ❖ Oracle Clusterware Log Files
- ❖ Component-level Debugging
- ❖ Troubleshooting the Oracle Cluster Registry
- ❖ 14d:

### Administering ASM Instances

- ❖ ASM Initialization Parameters
- ❖ Adjusting ASM Instance Parameters in SPFILEs
- ❖ Starting and Stopping ASM Instances Using srvctl
- ❖ Starting and Stopping ASM Instances Using ASMCA and ASMCMD
- ❖ Starting and Stopping ASM Instances
- ❖ Containing Cluster Files
- ❖ Starting and Stopping the ASM Listener
- ❖ Administering ASM Disk Groups
- ❖ Creating And Deleting ASM Disk Groups
- ❖ ASM Disk Group Attributes
- ❖ ASM Disk Group Maintenance Tasks
- ❖ Preferred Read Failure Groups
- ❖ Viewing ASM Disk Statistics
- ❖ Performance And Scalability Considerations
- ❖ For ASM Disk Groups

### Using the DBCA

- ❖ ASM Files, Directories, and Templates
- ❖ Using Different Client Tools to Access ASM Files
- ❖ Fully Qualified ASM File Name Format
- ❖ Creating and Managing ASM files, Directories and Aliases
- ❖ Managing Disk Group Templates
- ❖ Managing ASM ACL With Command Line Utilities
- ❖ Managing ASM ACL with Enterprise Manager
- ❖ Administering ASM Cluster File Systems
- ❖ ASM Dynamic Volume Manager
- ❖ Managing ASM Volumes
- ❖ Implementing ASM Cluster File System
- ❖ Managing ASM Cluster File System (ACFS)
- ❖ Using Command Line Tools To Manage ACFS
- ❖ Real Application Clusters Database Installation
- ❖ Installing The Oracle Database Software
- ❖ Creating A Cluster Database
- ❖ Post-database Creation Tasks
- ❖ 15e:

### Single-Instance Conversion Using the DBCA

- ❖ Single-Instance Conversion Using rconfig
- ❖ Background Processes Specific to Oracle RAC
- ❖ Oracle RAC Administration
- ❖ Enterprise Manager Cluster Database Pages
- ❖ Redo Log Files In A RAC Environment
- ❖ Undo Tablespace In A RAC Environment
- ❖ Starting And Stopping RAC Databases And Instances
- ❖ Initialization Parameters In A RAC Environment
- ❖ Quiescing RAC Databases
- ❖ Managing Backup and Recovery for RAC
- ❖ Protecting Against Media Failure
- ❖ Parallel Recovery in RAC
- ❖ Archived Log File Configurations
- ❖ RAC Backup and Recovery Using EM
- ❖ Archived Redo File Conventions in RAC
- ❖ Channel Connections to Cluster Instances
- ❖ Monitoring and Tuning the RAC Database
- ❖ Determining RAC-Specific Tuning Components
- ❖ Tuning Instance Recovery in RAC
- ❖ RAC-Specific Wait Events, Global Enqueues, and System Statistics
- ❖ Implementing the Most Common RAC Tuning Tips
- ❖ Using the Cluster Database Performance Pages
- ❖ Using the Automatic Workload Repository in RAC
- ❖ Using Automatic Database Diagnostic Monitor in RAC
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### Services

- ❖ Configure and Manage Services in a RAC environment
- ❖ Using Services with Client Applications
- ❖ Managing Services From the Command Line
- ❖ Maximum Availability Architecture