

# Oracle Database 10g/11g RAC for Administrators Course (15 Hours)

## 1. Identify Real Application Clusters Components

- Understand Real Application Clusters
- Clusters Scalability and High Availability
- The Necessity of Global Resources
- Parallel Execution with RAC
- RAC Software and Database Principles
- RAC and Shared Storage Technologies
- Understand VIPs
- Describe the benefits of Fast Application Notification

## 2. Install, Create, Administer, and Monitor a Real Application Clusters Database

- Describe the installation of Oracle RAC 10g
- Perform RAC pre-installation tasks
- Perform cluster setup tasks
- Install Oracle Clusterware
- Install and configure Automatic Storage Management (ASM)
- Install the Oracle database software
- Create a cluster database

## 3. Use Configuration and Management tools for Real Application Clusters Database

- Define redo log files in a RAC environment
- Define undo tablespaces in a RAC environment
- Start and stop RAC databases and instances
- Modify initialization parameters in a RAC environment

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- Manage ASM instances in a RAC environment
- Determine RAC-specific wait events, global enqueues, and system statistics
- Implement the most common RAC tuning tips

#### **4. Setup Services for Workloads Management and Applications high Availability**

- Configure and manage services in a RAC environment
- Set performance-metric thresholds on services
- Configure services aggregation and tracing
- Configure server-side connect-time load balancing
- Use the Load Balancing Advisory
- Configure server-side callouts
- Configure the server- and client-side ONS
- Configure Transparent Application Failover (TAF)

#### **5. Develop a Backup and Recovery Strategy for Real Application Clusters Databases**

- Configure the RAC database to use ARCHIVELOG mode and the flash recovery area
- Configure RMAN for the RAC environment

#### **6. Configure and Monitor Oracle Clusterware Resources**

- Manually control the Oracle Clusterware stack
- Change voting disk and OCR configuration
- Back up or recover your voting disks and OCR files
- Change VIP addresses
- Use the CRS framework
- Collect Oracle Clusterware diagnostic files
- Enable Oracle Clusterware debugging

#### **7. Review High Availability best practices**

- Add a new node to your cluster database

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- Remove a node from your cluster database
- Design a Maximum Availability Architecture in your environment
- Decide on the best ASM configuration to use
- Patch your RAC system in a rolling fashion



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