Oracle Database Administration with RAC: Mastering 12c/19c

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Barcelona (Spain)



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Why This Course

High availability, scalability, and performance are critical for enterprise database environments. This intensive 1-week program equips database administrators with the skills to install, configure, and manage Oracle Real Application Clusters RAC environments effectively. Covering both Oracle 12c and 19c, the course combines hands-on exercises, practical scenarios, and best practices to ensure participants can optimize RAC performance, implement robust backup and recovery strategies, and maintain resilient enterprise databases.

What You'll Learn and Practice

By attending this course, you will be able to:

- Install and configure Oracle RAC environments from scratch.
- Manage and administer RAC databases efficiently.
- Implement backup, recovery, and disaster recovery strategies.
- Optimize RAC performance and troubleshoot common issues.
- Understand RAC architecture and components in depth.
- Apply best practices for RAC administration and maintenance.

The Program Flow

Day 1: Introduction to Oracle RAC

- RAC architecture and core components
- Overview of Grid Infrastructure
- Fundamentals of Clusterware and ASM
- Installation prerequisites and planning

Day 2: RAC Installation and Configuration

- Installing Grid Infrastructure
- Creating and configuring RAC databases
- Setting up networking for RAC
- Managing services and workload distribution



Day 3: RAC Administration and Management

- Starting, stopping, and managing RAC instances
- Adding and removing nodes in a RAC cluster
- Administering RAC with Enterprise Manager
- Implementing RAC One Node configurations

Day 4: Backup, Recovery, and High Availability

- RMAN backup strategies for RAC environments
- Performing RAC database recovery
- Implementing Data Guard with RAC
- Configuring Fast Application Notification FAN

Day 5: Performance Tuning and Troubleshooting

- Monitoring RAC performance metrics
- Tuning global cache and enqueue services
- Resolving common RAC issues
- Best practices for ongoing RAC administration

Individual Impact

Participants will leave this program with:

- The ability to design, implement, and maintain highly available RAC environments.
- Skills to optimize RAC performance for critical enterprise applications.
- Expertise in backup, recovery, and disaster recovery strategies.
- Proficiency in troubleshooting and resolving complex RAC issues.

Organizational Impact

Organizations will benefit from:

- Highly resilient and scalable RAC environments for business-critical applications.
- Improved database performance, availability, and reliability.
- Reduced downtime and faster recovery in case of failures.
- Standardized best practices for RAC administration and maintenance.



Training Methodology

- Interactive lectures with practical examples
- Hands-on installation, configuration, and administration exercises
- Scenario-based troubleshooting and problem-solving
- Step-by-step guidance on RAC best practices

Beyond the Course

By the end of this 1-week program, participants will be ready to:

- Deploy and manage RAC environments confidently in production settings.
- Optimize database performance across multiple RAC nodes.
- Implement robust backup, recovery, and high-availability strategies.
- Troubleshoot complex RAC issues and apply best practices for ongoing operations.

