# 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.

