Training Course on Oracle RAC (Real Application Clusters) Administration Training

Professional Development Training Course Outline

Category	Development	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today’s fast-paced digital environment, businesses demand high availability, fault tolerance, and seamless scalability from their database infrastructures. Oracle RAC (Real Application Clusters) is a powerful solution that enables multiple servers to access a single database, providing a resilient and scalable platform. Training Course on Oracle RAC (Real Application Clusters) Administration Training offers a deep dive into Oracle RAC administration, equipping IT professionals with the skills to install, configure, manage, and troubleshoot RAC environments across enterprise-level systems.

Through a blended learning experience that includes expert-led lectures, interactive labs, and real-world case studies, learners will gain hands-on experience in cluster management, performance tuning, load balancing, and automatic storage management (ASM). By the end of this course, participants will have the practical knowledge to optimize RAC implementations and ensure maximum database uptime and performance.

Programme Curriculum

Training Course on Oracle RAC (Real Application Clusters) Administration Training

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Course Objectives:

1. Understand the architecture and core components of Oracle RAC.
2. Install and configure Oracle Grid Infrastructure and Oracle RAC on Linux.
3. Set up and manage Oracle ASM (Automatic Storage Management).
4. Use SRVCTL and CRSCTL utilities for cluster and resource management.
5. Implement real-time performance tuning and diagnostics.
6. Configure and manage Oracle Clusterware.
7. Ensure high availability and fault tolerance in RAC environments.
8. Monitor and analyze RAC performance using AWR/ASH reports.
9. Configure and use Oracle Enterprise Manager (OEM) for RAC.
10. Troubleshoot common cluster, node, and network issues.
11. Understand and apply load balancing and failover strategies.
12. Perform rolling patch upgrades and cluster node additions.
13. Secure RAC environments with role-based access control (RBAC) and auditing.

Target Audience

1. Oracle Database Administrators (DBAs)
2. System Engineers
3. Cloud Infrastructure Specialists
4. IT Operations Managers
5. Database Architects
6. DevOps Professionals
7. Performance Engineers
8. Enterprise Application Developers

Course Duration:

- 5 days

Course Modules

Module 1: Introduction to Oracle RAC

- Overview of Oracle RAC architecture
- Benefits and use cases
- Oracle Grid Infrastructure overview
- Core RAC components and services
- RAC vs Single Instance Database

Module 2: Installation and Configuration

- Preparing the Linux environment
- Oracle RAC installation steps
- Configuring Oracle Grid Infrastructure
- Post-installation tasks and verification
- Common installation issues and fixes

Module 3: ASM and Storage Management

- Introduction to ASM architecture
- Creating and managing disk groups
- Using ASMCMD and ASMCA
- Redundancy and mirroring concepts
- ASM best practices for performance

Module 4: Clusterware Management

- Cluster startup and shutdown
- Managing resources with SRVCTL
- Using CRSCTL for troubleshooting
- Cluster node addition/removal
- Understanding OCR and Voting Disk

Module 5: RAC Database Administration

- Creating a RAC database
- Administering RAC instances
- Monitoring RAC health
- Managing undo and redo logs
- Backup and recovery in RAC

Module 6: Performance Tuning and Monitoring

- Interconnect and cache fusion concepts
- AWR, ADDM, and ASH reports
- Diagnosing performance bottlenecks
- Load balancing configuration
- Tools for RAC diagnostics

Module 7: Troubleshooting and Maintenance

- Node eviction analysis

- Network and storage issue resolution
- Log file analysis (alert/log/trace)
- Applying rolling patches
- High-availability testing techniques

Module 8: Security and Automation

- Configuring RBAC for Oracle RAC
- Auditing cluster activity
- Automating tasks with shell scripts
- Integration with OEM Cloud Control
- Future trends in RAC and cloud deployment

Training Methodology:

- **Instructor-Led Training:** Structured sessions led by Oracle RAC experts to explain core concepts and architecture.
- **Interactive Discussions:** Engaging conversations to explore key topics, clarify doubts, and encourage knowledge sharing.
- **Case-Based Learning:** Real-world Oracle RAC scenarios are analyzed to connect theory with practical application.
- **Hands-On Labs:** Guided lab exercises simulating real-world environments for participants to practice configurations and troubleshooting.
- **Collaborative Problem-Solving:** Team-based activities to reinforce learning through shared exploration of challenges and solutions.
- **Guided Lab Activities:** Step-by-step instruction and supervision to build confidence and ensure accurate application of skills.
- **Optional: Post-Training Support:** Continued access to lab environments, course resources, and discussion forums for extended learning.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

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