Oracle Exadata Mastery: Architecture and Administration

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Accra (Ghana)



Oracle Exadata Mastery: Architecture and Administration

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Why This Course

Managing high-performance databases requires specialized knowledge and practical expertise. This intensive 1-week Oracle Exadata training course equips participants with the skills to implement, administer, and optimize the Exadata Database Machine. Through a combination of theoretical concepts and hands-on exercises, attendees will learn to maximize performance, ensure reliability, and manage mission-critical database workloads effectively.

What You'll Learn and Practice

By attending this course, you will be able to:

- Understand Oracle Exadata architecture and its core components.
- Implement and configure Exadata Database Machine for optimal operation.
- Manage storage, optimize resource allocation, and leverage Exadata-specific features.
- Perform backup, recovery, and troubleshooting tasks efficiently.
- Apply best practices for Exadata administration, maintenance, and high availability.

The Program Flow

Day 1: Exadata Architecture and Overview

- Introduction to Oracle Exadata
- Hardware components and configuration options
- Software stack and integration with Oracle Database
- Unique Exadata features and capabilities

Day 2: Exadata Implementation and Configuration

- Initial setup and configuration of Exadata
- Storage cell server configuration
- Database and ASM configuration for Exadata
- Network configuration and management



Day 3: Exadata Storage Management and Optimization

- Exadata storage architecture and Smart Scan technology
- I/O Resource Management IORM
- Hybrid Columnar Compression
- Smart Flash Cache and Smart Flash Log

Day 4: Database Administration on Exadata

- Backup and recovery strategies for Exadata
- Patching and upgrade procedures
- Performance monitoring and tuning
- Troubleshooting common issues

Day 5: Advanced Topics and Best Practices

- Exadata consolidation strategies
- High Availability and Disaster Recovery options
- Security best practices for Exadata
- Overview of Exadata Cloud solutions

Individual Impact

Participants will leave this program with:

- The ability to implement and manage Oracle Exadata Database Machines confidently.
- Skills to optimize database performance using Exadata-specific features.
- Expertise in troubleshooting and resolving Exadata-related issues.
- Knowledge to design and execute effective backup, recovery, and high-availability strategies.

Organizational Impact

Organizations will benefit from:

- Efficient management of mission-critical database workloads.
- Optimized resource allocation and improved database performance.
- Reduced downtime through effective backup, recovery, and troubleshooting practices.
- Implementation of industry best practices for secure, high-availability database environments.



Training Methodology

- Interactive lectures with practical, hands-on exercises
- Real-world case studies and scenario-based learning
- Group discussions and collaborative problem-solving
- Application of best practices for Exadata administration and optimization

Beyond the Course

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

- Deploy and manage Oracle Exadata Database Machines in enterprise environments.
- Optimize storage, performance, and resource utilization.
- Lead troubleshooting and performance tuning initiatives.
- Implement robust backup, recovery, and high-availability strategies for critical databases.

