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# Oracle Exadata Database Machine Implementation and Administration

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This course covers all facets of Exadata Database Machine implementation and administration, with lecture content and lab environment validated against the latest release of Oracle Exadata Database Machine X8M.

After completing this course, you should be able to:

- Describe the key capabilities of Exadata Database Machine
- Identify the benefits of using Exadata Database Machine for different application classes
- Describe the architecture of Exadata Database Machine and its integration with Oracle Database, Clusterware, and ASM
- Complete the initial configuration of Exadata Database Machine
- Describe various recommended approaches for migrating to Exadata Database Machine
- Configure I/O Resource Management
- Monitor Exadata Database Machine health and optimize performance

## Objectives

- Perform Exadata Database Machine Initial Configuration
- Perform Exadata Storage Server Configuration
- Manage I/O Resources
- Optimize Database Performance
- Examine Exadata Smart Scan statistics observed within Oracle Database
- Consolidation Options and Recommendations
- Migrate Databases to Exadata Database Machine
- Load Bulk Data on Exadata Database Machine
- Monitor Exadata System Software Components
- Configure EMCC to Monitor Exadata Database Machine
- Monitor Exadata Storage Servers
- Monitor Exadata Database Machine Database Servers
- Monitor Other Exadata Database Machine Components
- Perform Backup and Recovery on Exadata Database Machine Components

- Perform Exadata Database Machine Maintenance Tasks
- Patch Exadata Database Machine
- Configure Exadata Database Machine for ASR

## Topics

- Exadata Database Machine: Overview
- Exadata Database Machine Architecture
- Key Capabilities of Exadata Database Machine
- Exadata Database Machine Initial Configuration
- Exadata Storage Server Configuration
- I/O Resource Management
- Recommendations for Optimizing Database Performance
- Using Smart Scan
- Consolidation Options and Recommendations
- Migrating Databases to Exadata Database Machine
- Bulk Data Loading
- Exadata Database Machine Platform Monitoring: Introduction
- Monitoring Exadata System Software Components
- Configuring Enterprise Manager Cloud Control to Monitor Exadata Database Machine
- Monitoring Exadata Storage Servers
- Monitoring Exadata Database Machine Database Servers
- Monitoring Other Exadata Database Machine Components
- Other Useful Exadata Monitoring Tools
- Backup and Recovery
- Exadata Database Machine Maintenance Tasks
- Patching Exadata Database Machine
- Exadata Database Machine Automated Support Ecosystem