Sign up

Oracle Exadata training

3 days (21 hours)

Presentation

Our Oracle Exadata training course will teach you to master and understand Oracle databases. Deepen your knowledge and skills in managing system resources, **costs** and cloud resources.

Exadata training covers best practices for database , SQL query optimization and integration with other Oracle services.

Learn how to analyze performance with Oracle Enterprise Manager and integrate it with Exadata to optimize performance.

By the end of our training course, you'll have mastered migration, data management and data understanding.

Objectives

- Understanding Oracle Exadata hardware architecture
- Master Oracle database migration and optimization
- Understanding redundancy and disaster recovery mechanisms
- Acquire the knowledge needed to analyze and manage data

Target audience

- Cloud architects
- Data Engineers
- Network administrators
- Big Data developers

Prerequisites

- Knowledge of databases
- Familiarity with SQL

Oracle Exedata Training Program

Introduction to Exadata

- What is Oracle Exadata
- Architecture
- main components
    - calculation
    - storage
    - network
- Differences between Oracle Exadata and other infrastructures
- Use and applications

Oracle Exadata hardware architecture

- Calculation server features and specifications
- Structure
- Capacity
- InfiniBand internal network
- Optimizing hardware resources in multi-load environments
- Redundancy management

Installing and configuring Exadata

- Initial configuration of Oracle Exadata
- Customize settings
- Integration with existing Oracle databases
- Solving installation problems

Advanced administration and management of Oracle Exadata

- Introduction to Exadata Command Line Interface
- Performance monitoring
- Resource monitoring
- Backups
- Restorations
- Automation of routine administration tasks

Performance optimization

- Use of intelligent storage functions.
- Typical data compression
- SQL query optimization
- System resources with Database Resource Manager
- Mixed OLTP and analytical work

Enhanced security mechanisms and high availability

- Redundancy and disaster recovery mechanisms
- Integrated safety features
  - Data Vault
  - encryption
- Setting up automatic backups with RMAN

Problem solving and troubleshooting

- Common problems and diagnostic tools
- Performance analysis with Oracle Enterprise Manager
- Setting up alerts and monitoring thresholds

Exadata in the cloud

- Migrating a traditional Oracle database to the Exadata cloud
- Cost management and optimization of cloud resources
- Integration with other Oracle Cloud services
- The difference between cloud and on-premises deployment

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.