

Oracle NoSQL Database for Administrators Ed 2

Course Duration: 16 Hours

Course Code: D88738GC20

1. Course Overview

The *Oracle NoSQL Database for Administrators Ed 2* course is designed to equip participants with the knowledge and skills required to install, configure, and manage Oracle NoSQL Database environments. This course focuses on administration tasks such as monitoring performance, managing security, configuring topologies, handling backup and recovery, and troubleshooting. Through a blend of theoretical concepts and practical exercises, learners will gain hands-on experience to effectively maintain high availability and scalability of NoSQL databases in enterprise-level applications.

2. What You'll Learn?

By the end of this course, you will be able to:

- Install and configure Oracle NoSQL Database.
- Understand key architecture components and deployment models.
- Manage clusters, storage nodes, and replication for scalability and availability.
- Monitor and optimize system performance.
- Implement user authentication, authorization, and secure communication.
- Perform backup, restore, and disaster recovery operations.
- Troubleshoot common administrative issues.
- Apply best practices for database maintenance and high availability.

3. Target Audience

This course is ideal for:

- Database Administrators (DBAs) responsible for managing Oracle NoSQL environments.
- System Administrators handling distributed database deployments.
- IT professionals and engineers looking to enhance their NoSQL administration skills.
- Technical architects involved in designing and maintaining large-scale data systems.

4. Pre-Requisites

Before attending this course, participants should have:

- Basic understanding of database concepts and administration.
- Familiarity with Linux/Unix operating systems and command-line utilities.
- Knowledge of distributed systems and networking fundamentals is beneficial but not mandatory.

5. Course Content

Module 1: Introduction to Oracle NoSQL Database

- Overview of NoSQL databases
- Key features and use cases of Oracle NoSQL
- Architecture and components

Module 2: Installation and Configuration

- System requirements

- Installing Oracle NoSQL Database
- Initial configuration and setup

Module 3: Managing Topology and Deployment

- Storage nodes and replication nodes
- Configuring and modifying topologies
- Deploying clusters and replication groups

Module 4: Security Management

- Authentication and authorization
- Configuring secure communication
- Role-based access control

Module 5: Monitoring and Performance Tuning

- Monitoring tools and metrics
- Identifying and resolving performance bottlenecks
- Optimizing system performance

Module 6: Backup and Recovery

- Backup strategies
- Restoring data and system recovery
- Disaster recovery best practices

Module 7: Troubleshooting and Maintenance

- Common issues and resolutions
- Log management and analysis
- Best practices for maintenance and high availability