Mongo DB Administration Training

Duration: **4 Day**

BILGINÇ IT Academy
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The MongoDB Administration course provides in-depth knowledge on how to install, configure, secure, monitor, and manage MongoDB databases in enterprise environments. Tailored for system administrators, DBAs, and DevOps engineers, this course ensures participants can confidently manage replica sets, backups, high availability, and performance tuning in both on-prem and cloud setups.

Prerequisites

- Basic familiarity with the Linux command line
- General understanding of database concepts
- Prior exposure to MongoDB fundamentals is helpful but not required

Who Should Attend

- System Administrators
- Database Administrators (DBAs)
- DevOps Engineers
- Cloud and Infrastructure Professionals
- Anyone seeking hands-on expertise in MongoDB management and security

What You Will Learn

- Installing and configuring MongoDB in production environments
- Setting up and managing replica sets and sharding
- Performing backups and restores effectively
- Monitoring, tuning, and optimizing MongoDB performance
- Managing roles, users, and access control
- Utilizing MongoDB Atlas for cloud-based administration

Training Outline

Module 1: Introduction to MongoDB Architecture & Admin Tools

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- NoSQL concepts and MongoDB overview
- Mongo Shell, Compass, and Atlas interfaces
- MongoDB core components explained

Module 2: Installation & Configuration

- Installing MongoDB (Windows, Linux, Docker)
- Configuration files and key startup parameters
- Tips for production-grade deployments

Module 3: Database & Collection Management

- Creating and managing databases and collections
- Access control and user role assignment
- Logging and configuration audits

Module 4: Replica Set Administration

- Replica Set theory and configuration
- Election process and role distribution
- Failover testing and recovery scenarios

Module 5: Backup and Restore

- Using mongodump & mongorestore
- Working with Ops Manager and Atlas backup features
- Snapshot and disaster recovery strategies

Module 6: Sharding and Scalability

- Understanding sharded cluster architecture
- Choosing an appropriate shard key
- Managing mongos routers and shard nodes

Module 7: Security & Access Control

- Authentication methods and role-based access control (RBAC)
- Enabling TLS/SSL encryption
- IP whitelisting and certificate handling

Module 8: Monitoring and Performance Diagnostics

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- Analyzing slow queries
- Using MongoDB monitoring commands
- Performance visualization in MongoDB Atlas

Module 9: Automation & Maintenance

- Automating tasks with cron jobs
- Data archiving and compacting collections
- Updates, versioning, and log rotation

Module 10: Managing MongoDB Atlas

- Creating and managing cloud clusters
- IP access, users, and cloud backup strategies
- Scaling resources and performance tuning in the cloud