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MySQL for Database Administrators

Learn to

- ✓ Install and configure MySQL Server and client programs
- ✓ Recognize the key components of the MySQL architecture
- ✓ Manage user accounts and secure your server
- ✓ Troubleshoot server slowdowns and other issues
- ✓ Backup and recover MySQL database
- ✓ Configure and administer a variety of replication topologies

Objectives

- Install the MySQL server and client programs
- Upgrade MySQL on a running server
- Describe MySQL architecture
- Explain how MySQL processes, stores, and transmits data
- Configure MySQL server and client programs
- Use server logs and other tools to monitor database activity
- Create and manage users and roles
- Protect your data from common security risks
- Troubleshoot server slowdowns and other common problems

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- Identify and optimize poorly performing queries
- Define and implement a backup strategy
- Perform physical and logical backups of your data
- Describe MySQL replication and its role in high availability and scalability
- Configure simple and complex replication topologies
- Administer a replication topology
- Configure and administer InnoDB Cluster

Topics

- ❖ Introduction to MySQL
- ❖ Installing and Upgrading MySQL
- ❖ Understanding MySQL Architecture
- ❖ Configuring MySQL
- ❖ Monitoring MySQL
- ❖ Managing MySQL Users
- ❖ Securing MySQL
- ❖ Maintaining a Stable System
- ❖ Optimizing Query Performance
- ❖ Choosing a Backup Strategy
- ❖ Performing Backups
- ❖ Configuring a Replication Topology
- ❖ Administering a Replication Topology
- ❖ Achieving High Availability with MySQL InnoDB Cluster
- ❖ Conclusion