

MySQL for Database Administrators

Course Duration: 5 days; Instructor-led

WHAT YOU WILL LEARN

The MySQL for Database Administrators enables DBAs and other database professionals to maximize their organization's investment in MySQL. Learn to configure the MySQL Server, set up replication and security, perform database backups and recoveries, optimize query performance, and configure for high availability.

- 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 recovery MySQL database
- Configure and administer a variety of replication topologies

AUDIENCE

- Cloud Administrators
- Database Administrators
- Database Designers
- Web Administrators

PREREQUISITES

Experience with relational database concepts; knowledge of basic SQL statements; understand how to execute Linux/Unix commands.

METHODOLOGY

This program will be conducted with interactive lectures, PowerPoint presentation, discussion and practical exercise.

COURSE 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
- 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

OUTLINES

Module 1: Introduction to MySQL

Module 2: Installing and Upgrading MySQL

Module 3: Understanding MySQL Architecture

Module 4: Configuring MySQL

Module 5: Monitoring MySQL

Module 6: Managing MySQL Users

Module 7: Securing MySQL

Module 8: Maintaining a Stable System

Module 9: Optimizing Query Performance

Module 10: Choosing a Backup Strategy

Module 11: Performing Backups

Module 12: Configuring a Replication Topology

Module 13: Administering a Replication Topology

Module 14: Achieving High Availability with MySQL
InnoDB Cluster

Module 15: Conclusion