

MySQL 8.0 Database Administrator



Online Course

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Course Modules

1. Architecture

- Configure client connections to the server
- Understand how MySQL stores data
- Understand how InnoDB stores data and logs
- Configure buffers and caches
- Understand and use the Data Dictionary

2. Server Installation and Configuration

- Install and use the MySQL server and client programs
- Identify the files and folders created during installation
- Start and stop MySQL
- Upgrade MySQL
- Configure MySQL by using options and option files
- Configure MySQL variables
- Launch multiple MySQL servers on the same host



3.Security

- Create user accounts and roles
- Use authentication plug-ins
- Control user and role permissions
- Recognize common security risks
- Secure MySQL server connections
- Provide password and login security
- Secure the MySQL host environment
- Prevent SQL injection attacks
- Encrypt MySQL data
- Configure MySQL Enterprise Firewall

4.Monitoring and Maintenance

- Configure and view MySQL log files
- Monitor MySQL processes and status
- Configure MySQL Enterprise Audit
- Use MySQL Enterprise Monitor to view activity in MySQL
- Monitor database growth and explain capacity planning
- Troubleshoot problems with locked resources



5.Query Optimization

- Examine how MySQL optimizes queries
- Analyze queries with MySQL Enterprise Monitor
- Create indexes to improve server performance
- Monitor and understand index statistics

6.Backups and Recovery

- Distinguish between the different types of backup
- Implement a backup strategy
- Backup and restore data with MySQL Enterprise Backup
- Use mysqldump and mysqlpump to perform logical backups
- Explain when and how to use raw file backups
- Back up the binary log

7.High Availability Techniques

- Configure replication
- Explain the role of the binary log in replication
- Configure multisource replication
- Explain the role of replication threads
- Monitor and troubleshoot replication
- Describe MySQL InnoDB cluster and Group Replication
- Configure a MySQL InnoDB cluster
- Perform an InnoDB cluster recovery



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