MS20764 - Administering a SQL Database Infrastructure

Microsoft - SQL Server - Sistemistica

Durata:	Lingue:	Certificazione:
5 Giorni	**Italiano**	**MCSA SQL 2016 Database Administration**

Descrizione del corso

This five-day instructor-led course provides students who administer and maintain SQL Server databases with the knowledge and skills to administer a SQL server database infrastructure. Additionally, it will be of use to individuals who develop applications that deliver content from SQL Server databases.

Programma

1. Authenticating and Authorizing Users
    1. Authenticating connections to SQL Server
    2. Authorizing logins to access databases
    3. Authorization across servers
    4. Partially contained databases
2. Assigning Server and Database Roles
    1. Working with server roles
    2. Working with Fixed database roles
    3. Creating user-defined database roles
3. Authorizing Users to Access Resources
    1. Authorizing user access to objects
    2. Authorizing users to execute code
    3. Configuring permissions at the schema level
4. Protecting Data with Encryption and Auditing
    1. Options for auditing data access in SQL Server
    2. Implementing SQL Server audit
    3. Managing SQL Server audit

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4. Protecting data with encryption

5. SQL Server Recovery Models
    1. Backup strategies
    2. Understanding SQL Server transaction login
    3. Planning a SQL Server backup strategy
6. Backup of SQL Server Databases
    1. Backing up databases and transaction logs
    2. Managing database backups
    3. Working with backup options
7. Restoring SQL Server Databases
    1. Understanding the restore process
    2. Restoring databases
    3. Working with point-in-time recovery
    4. Restoring system databases and individual files
8. Automating SQL Server Management
    1. Automating SQL Server management
    2. Working with SQL Server agent
    3. Managing SQL Server agent jobs
    4. Multi-server management
9. Configuring Security for SQL Server Agent
    1. Understanding SQL Server Agent Security
    2. Configuring credentials
    3. Configuring proxy accounts
10. Monitoring SQL Server with Alerts and Notifications
    1. Configuration of database mail
    2. Monitoring SQL Server errors
    3. Configuring operators, alerts, and notifications
    4. Alerts in Azure SQL database
11. Introduction to Managing SQL Server by using PowerShell
    1. Configure SQL Server using PowerShell
    2. Administer SQL Server using PowerShell
    3. Maintain the SQL Server environment using PowerShell
    4. Managing Azure SQL Server databases using PowerShell
12. Tracing Access to SQL Server
    1. Capturing activity using SQL Server profiler
    2. Improving performance with the database engine tuning advisor
    3. Working with tracing options

4. Distributed replay
5. Monitoring locks

13. Monitoring SQL Server
    1. Monitoring activity
    2. Capturing and managing performance data
    3. Analyzing collected performance data
    4. SQL Server utility
14. Troubleshooting SQL Server
    1. SQL Server troubleshooting methodology
    2. Resolving service related issues
    3. Resolving login and connectivity issues
    4. Troubleshooting common issues
15. Importing and Exporting Data
    1. Transferring data to/from SQL Server
    2. Importing and exporting table data
    3. Using BCP and BULK INSERT to import data
    4. Deploying and upgrading data-tier applications