Provisioning SQL Databases:

COURSE OVERVIEW

This course provides you with the knowledge and to provision SQL Server databases both on premise and in SQL Azure. This course incorporates material from the Official Microsoft Learning Product 20765: Provisioning SQL Databases.

WHAT YOU'LL LEARN

- Provision a database server.
- Upgrade SQL Server.
- Configure SQL Server.
- Manage databases and files (shared).
- Provision, migrate and manage databases in cloud

OUTLINE

1. SQL Server 2016 Components

- Introduction to the SQL Server Platform
- Overview of SQL Server Architecture
- SQL Server Services and Configuration Options

2. Installing SQL Server 2016

- Considerations for Installing SQL Server
- TempDB Files
- Installing SQL Server 2016
- Automating Installation

3. Upgrading SQL Server to SQL Server 2017

- Upgrade Requirements
- Upgrade SQL Server Services
- Migrating SQL Server Data and Applications

4. Working with Databases

- Introduction to Data Storage with SQL Server
- Managing Storage for System Databases
- Managing Storage for User Databses
- Moving and Copying Database Files
- Buffer Pool Extension

5. Perform Data Maintenance

- Ensuring Database Integrity
- Maintaining Indexes
- Automating Routine Database Maintenance

6. Database Storage Options

- SQL Server Storage Performance
- SMB Fileshare
- SQL Server Storage in Azure
- Stretch Databases

7. Planning to Deploy SQL Server on Microsoft Azure

- SQL Server Virtual Machines in Azure
- Azure Storage
- Azure SQL Authentication
- Deploying an Azure SQL Database

8. Migrating Databases to Azure SQL Database

- Database Migration Testing Tools
- Database Migration Compatibility Issues
- Migrating a SQL Server Database to Azure SQL Database

9. Deploying SQL Server on a Microsoft Azure Virtual Machine

- Deploying SQL Server on an Azure VM
- The Deploy Database to a Microsoft Azure VM Wizard

10. Managing databases in the Cloud

- Managing Azure SQL Database Security
- Configure Azure storage
- Azure Automation

PREREQUISITES

- Basic knowledge of the Microsoft Windows operating system and its core functionality.

- Working knowledge of Transact-SQL.
- Working knowledge of relational databases.
- Some experience with database design.

WHO SHOULD ATTEND

- Individuals who administer and maintain SQL Server databases, performing database administration and maintenance as their primary area of responsibility, or who work in environments where databases play a key role in their primary job.
- Individuals who develop applications that deliver content from SQL Server databases.