



Provisioning SQL Databases

This five-day instructor-led course is designed to teach participants how to provision SQL Server databases both on Premise and in SQL Azure.

Who Should Attend:

This course is intended for individuals who:

- Administer & maintain SQL Server databases
- Perform database administration & maintenance or work in environments where databases play a key role in their job
- develop applications that deliver content from SQL Server databases

Course Prerequisites:

Before attending this course, participants must have, in addition to their professional experience:

- A basic knowledge of the Microsoft Windows operating system
- Working knowledge of Transact-SQL
- Working knowledge of relational databases
- Some experience with database design

Course Objectives:

After completing this course, participants will be able to:

- Provision a Database Server
- Upgrade SQL Server
- Configure SQL Server
- Manage Databases and files (shared)
- Provision, migrate and manage databases in the Cloud

Course Code: 20765B
Course Duration: 5 Days

Course Summary

Module 1: SQL Server 2016 Components

Module 2: Installing SQL Server 2016

Module 3: Upgrading SQL Server to SQL Server 2016

Module 4: Working with Databases

Module 5: performing Database Maintenance

Module 6: Database Storage Options

Module 7: Planning to Deploy SQL Server on Microsoft Azure

Module 8: Migrating Databases to Azure SQL Database

Module 9: Deploying SQL Server on a Microsoft Azure Virtual Machine

Module 10: Managing Databases in the Cloud

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Call 1300 927 394 to register for this course today as places are strictly limited.



Course Outline

Module 1: SQL Server 2016 Components

This module describes the various SQL Server 2016 components and versions

Lessons

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

Lab

- SQL Server Versions (Discussion Session)

Module 2: Installing SQL Server 2016

This module describes the process to install SQL Server 2016

Lessons

- Consideration for installing SQL Server
- TempDB Files
- Installing SQL Server 2016
- Automating Installation

Lab

- Installing SQL Server

Module 3: Upgrading SQL Server to SQL Server 2016

This module describes the process for upgrading to SQL Server 2016

Lessons

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

Lab

- Upgrading SQL Server

Module 4: Working with Databases

This module describes the preinstalled system databases, the physical structure of databases and the most common configuration options related to them.

Lessons

- Introduction to Data Storage with SQL Server
- Managing Storage for System Databases
- Managing Storage for User Databases
- Moving & Copying Database Files
- Side-by-Side Upgrade: Migrating SQL Server Data & Applications
- Buffer Pool Extension

Lab

- Managing Database Storage

Module 5: Performing Database Maintenance

This module covers database maintenance

Lessons

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

Lab

- Performing Ongoing Database Maintenance

Module 6: Database Storage Options

This modules describes the database storage options

Lessons

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

Lab

- Implementing Stretch Database



Module 7: Planning to Deploy SQL Server on Microsoft Azure

This module describes how to plan to deploy SQL Server on Azure

Lessons

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

Lab

- Plan and Deploy an Azure SQL Database

Module 8: Migration Databases to Azure SQL Database

This module describes how to migrate databases to Azure SQL Database

Lessons

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

Lab

- Migrating SQL Server Databases to Azure

Module 9: Deploying SQL Server on a Microsoft Azure Virtual Machine

This module describes how to deploy SQL Server on Microsoft Azure VMs.

Lessons

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

Lab

- Deploying SQL Server on an Azure Virtual Machine

Module 10: Managing Databases in the Cloud

This module describes how to manage SQL Server on Azure

Lessons

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

Lab

- Managing Databases in the Cloud