

# Microsoft 70-765 Provisioning SQL Databases

## Structured technical training and certification preparation

A practical, student-friendly outline covering deploy a Microsoft Azure SQL Database, plan for SQL Server Installation, deploy SQL Server Instances, deploy ...

### MODULES

9

### LESSONS

102

### FORMAT

Self-paced

## Module Breakdown

### MODULE 1

#### Deploy a Microsoft Azure SQL Database

- Introduction
- Introducing the Azure SQL Database Part 1
- Introducing the Azure SQL Database Part 2
- Setting Up Azure Lab
- Chose a Service Tier Part 1
- Chose a Service Tier Part 2
- Create Servers and Databases Part 1
- Creating a Azure SQL Server and Database Lab
- Create Servers and Databases Part 2
- Create Servers and Databases Part 3
- Connecting SSMS to Azure SQL Lab Part 1
- Connecting SSMS to Azure SQL Lab Part 2
- Create a Sysadmin Account
- Creating Azure SQL Logins and Users Lab
- Congure Elastic Pools
- Creating and Conguring an Elastic Pool Lab

### MODULE 2

#### Plan for SQL Server Installation

- Plan for an IaaS or On-Premises Deployment Part 1
- Plan for an IaaS or On-Premises Deployment Part 2
- Select the Appropriate Size for a Virtual Machine
- Plan Storage Pools Based on Performance Requirements Part 1
- Plan Storage Pools Based on Performance Requirements Part 2
- Evaluate Best Practices for Installation
- Design a Storage Layout for a SQL Server Virtual Machine

## Module Breakdown (continued)

<p><b>MODULE 3</b></p> <p><b>Deploy SQL Server Instances</b></p> <ul style="list-style-type: none"> <li>Deploy a SQL Server Instance in IaaS and On-Premises</li> <li>Restoring AdventureWorks 2016 Database Lab</li> <li>Provision an Azure Virtual Machine to Host a SQL Server Instance</li> <li>Provisioning an Azure Virtual Machine to Host a SQL Server Lab</li> <li>Manually Install SQL Server on an Azure Virtual Machine</li> <li>Installing SQL 2016 Lab Part 1</li> <li>Installing SQL 2016 Lab Part 2</li> <li>Automate the Deployment of SQL Server Databases</li> <li>Exploring Azure SQL Database Automation Lab</li> <li>Deploy SQL Server by Using Templates</li> <li>Managing JSON Templates Lab</li> </ul>	<p><b>MODULE 4</b></p> <p><b>Deploy SQL Server Databases to Azure Virtual Machines</b></p> <ul style="list-style-type: none"> <li>Migrate an On-Premises SQL Server Database to an Azure Virtual Machine</li> <li>Migrate an On-Premises SQL Server Database to an Azure Virtual Machine Lab Part 1</li> <li>Migrate an On-Premises SQL Server Database to an Azure Virtual Machine Lab Part 2</li> <li>Migrate an On-Premises SQL Server Database to an Azure Virtual Machine Lab Part 3</li> <li>Migrate an On-Premises SQL Server Database to an Azure Virtual Machine Lab Part 4</li> <li>Generate Benchmark Data for Performance Needs</li> <li>Generating Benchmark Data Lab Part 1</li> <li>Generating Benchmark Data Lab Part 2</li> <li>Perform Performance Tuning on Azure IaaS</li> <li>Perform Performance Tuning on Azure IaaS Lab Part 1</li> <li>Perform Performance Tuning on Azure IaaS Lab Part 2</li> <li>Support Availability Sets in Azure Part 1</li> </ul>
<p><b>MODULE 4</b></p> <p><b>Deploy SQL Server Databases to Azure Virtual Machines (continued)</b></p> <ul style="list-style-type: none"> <li>Support Availability Sets in Azure Part 2</li> <li>Manage High Availability Lab Part 1</li> <li>Manage High Availability Lab Part 2</li> <li>Manage High Availability Lab Part 3</li> <li>Manage High Availability Lab Part 4</li> <li>Manage High Availability Lab Part 5</li> </ul>	<p><b>MODULE 5</b></p> <p><b>Configure Secure Access to Microsoft Azure SQL Databases</b></p> <ul style="list-style-type: none"> <li>Configure Firewall Rules</li> <li>Creating Firewall Rules Lab</li> <li>Configure Always Encrypted for Azure SQL Database</li> <li>Implementing Always Encrypted Lab</li> <li>Configure Cell-Level Encryption</li> <li>Cell-Level Encryption Lab</li> <li>Configure Dynamic Data Masking</li> <li>Dynamic Data Masking Lab</li> <li>Configure Transparent Data Encryption (TDE)</li> <li>Transparent Data Encryption (TDE) Lab</li> </ul>
<p><b>MODULE 6</b></p> <p><b>Configure SQL Server performance settings</b></p> <ul style="list-style-type: none"> <li>Configure SQL Performance Settings</li> <li>Configuring SQL Performance Settings Lab</li> <li>Configure Max Server Memory</li> <li>Configuring SQL Memory Lab</li> <li>Configure Database Performance Settings</li> <li>Configure Database Performance Settings Lab</li> <li>Configure Operators and Alerts</li> <li>Configure alerts in Azure and On-Premise SQL Server Lab</li> </ul>	<p><b>MODULE 7</b></p> <p><b>Manage SQL Server instances</b></p> <ul style="list-style-type: none"> <li>Create Databases</li> <li>Creating Databases Lab</li> <li>Manage Files and File Groups</li> <li>Managing Files and File Groups Lab</li> <li>Manage System Database Files</li> <li>Manage System Database Files Lab</li> <li>Configure tempdb</li> <li>Configure tempdb Lab</li> </ul>

## Module Breakdown (continued)

<b>MODULE 8</b>	<b>MODULE 9</b>
<p><b>Manage SQL Storage</b></p> <ul style="list-style-type: none"><li>Manage SMB File Shares</li><li>Manage SMB File Shares Lab</li><li>Manage Stretch Databases</li><li>Configure Azure Storage</li><li>Change Service Tiers</li><li>Change Service Tiers Lab Part 1</li><li>Review Wait Statistics</li><li>Manage Storage Pools</li><li>Recover from Failed Storage</li><li>Managing Storage Lab Part 1</li><li>Managing Storage Lab Part 2</li></ul>	<p><b>Perform Database Maintenance</b></p> <ul style="list-style-type: none"><li>Monitoring Tools</li><li>Using Monitoring Tools Lab Part 1</li><li>Using Monitoring Tools Lab Part 2</li><li>Azure Performance Tuning</li><li>Automate Maintenance Tasks</li><li>Update Statistics and Indexes</li><li>Update Statistics and Indexes Lab Part 1</li><li>Update Statistics and Indexes Lab Part 2</li><li>Verify Database Integrity</li><li>Verify Database Integrity Lab</li><li>Recover from Database Corruption</li><li>Recover from Database Corruption Lab</li><li>Conclusion</li></ul>