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# Microsoft 70-765 SQL Server 2016 Provisioning SQL Databases

## 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 3: Deploy SQL Server Instances

Deploy a SQL Server Instance in IaaS and On-Premises

Restoring AdventureWorks 2016 Database Lab

Provision an Azure Virtual Machine to Host a SQL Server Instance

Provisioning an Azure Virtual Machine to Host a SQL Server Lab

Manually Install SQL Server on an Azure Virtual Machine

Installing SQL 2016 Lab Part 1

Installing SQL 2016 Lab Part 2

Automate the Deployment of SQL Server Databases

Exploring Azure SQL Database Automation Lab

Deploy SQL Server by Using Templates

## Module 4: Deploy SQL Server Databases to Azure Virtual Machines

- Migrate an On-Premises SQL Server Database to an Azure Virtual Machine
- Migrate an On-Premises SQL Server Database to an Azure Virtual Machine Lab Part 1
- Migrate an On-Premises SQL Server Database to an Azure Virtual Machine Lab Part 2
- Migrate an On-Premises SQL Server Database to an Azure Virtual Machine Lab Part 3
- Migrate an On-Premises SQL Server Database to an Azure Virtual Machine Lab Part 4
- Generate Benchmark Data for Performance Needs
- Generating Benchmark Data Lab Part 1
- Generating Benchmark Data Lab Part 2
- Perform Performance Tuning on Azure IaaS
- Perform Performance Tuning on Azure IaaS Lab Part 1
- Perform Performance Tuning on Azure IaaS Lab Part 2
- Support Availability Sets in Azure Part 1
- Support Availability Sets in Azure Part 2
- Manage High Availability Lab Part 1
- Manage High Availability Lab Part 2
- Manage High Availability Lab Part 3
- Manage High Availability Lab Part 4
- Manage High Availability Lab Part 5

## Module 5: Configure Secure Access to Microsoft Azure SQL Databases

- Configure Firewall Rules
- Creating Firewall Rules Lab
- Configure Always Encrypted for Azure SQL Database
- Implementing Always Encrypted Lab
- Configure Cell-Level Encryption
- Cell-Level Encryption Lab
- Configure Dynamic Data Masking
- Dynamic Data Masking Lab
- Configure Transparent Data Encryption (TDE)
- Transparent Data Encryption (TDE) Lab

## Module 6: Configure SQL Server performance settings

- Configure SQL Performance Settings
- Configuring SQL Performance Settings Lab
- Configure Max Server Memory
- Configuring SQL Memory Lab
- Configure Database Performance Settings
- Configure Database Performance Settings Lab
- Configure Operators and Alerts
- Configure alerts in Azure and On-Premise SQL Server Lab

## Module 7: Manage SQL Server instances

- Create Databases
- Creating Databases Lab

- Manage Files and File Groups
- Managing Files and File Groups Lab
- Manage System Database Files
- Manage System Database Files Lab
- Configure tempdb
- Configure tempdb Lab

## Module 8: Manage SQL Storage

- Manage SMB File Shares
- Manage SMB File Shares Lab
- Manage Stretch Databases
- Configure Azure Storage
- Change Service Tiers
- Change Service Tiers Lab Part 1
- Review Wait Statistics
- Manage Storage Pools
- Recover from Failed Storage
- Managing Storage Lab Part 1
- Managing Storage Lab Part 2

## Module 9: Perform Database Maintenance

- Monitoring Tools
- Using Monitoring Tools Lab Part 1
- Using Monitoring Tools Lab Part 2
- Azure Performance Tuning
- Automate Maintenance Tasks
- Update Statistics and Indexes
- Update Statistics and Indexes Lab Part 1
- Update Statistics and Indexes Lab Part 2
- Verify Database Integrity
- Verify Database Integrity Lab
- Recover from Database Corruption
- Recover from Database Corruption Lab
- Conclusion