



55247: DESIGNING AND IMPLEMENTING CLOUD DATA PLATFORM SOLUTIONS TRAINING

Duration: 3 Days

Course Description

55247: Designing and Implementing Cloud Data Platform Solutions Training is designed to help professionals develop a conceptual understanding of designing and implementing database solutions on Microsoft Azure and SQL Server. This technical course demonstrates various options, including disaster recovery, availability, security, monitoring, and troubleshooting. Our Enterprise training program allows a team upgrade with a skill set that leads to the firm's overall development. It teaches trainees to build security solutions for cloud databases and on-premises and configure high availability, scalability, and disaster recovery options for databases. This training program is suitable for data professionals whose work involves designing and implementing on-premises and Azure data solutions. By the end of the course, individuals will know how to build Microsoft Azure data solutions and SQL Server and monitor and manage database solutions.

This training is designed based on the objectives of the course variant 55247A.

Who should attend this course?

This training is aimed at data professionals who have experience in designing big data analytics solutions on Microsoft Azure.

Prerequisites

- Experience working with databases
- Experience using SQL

What you will learn

- Creating Microsoft Azure and SQL Server data solutions
- Creating Security solutions for cloud databases and on-premises
- Configuring Scalability, Disaster Recovery, and High-Availability options for databases
- Automating, Managing, and Monitoring database solutions

Curriculum

Module 1: Designing and Implementing Database Solutions for SQL Server and Microsoft Azure

This module explains how to design a database solution for SQL Server and Microsoft Azure databases.

Lessons

- Design and Implement Hybrid SQL Server solutions
- Design and Implement Azure SQL Database solutions
- Design and Implement MySQL and PostgreSQL database solutions in Azure
- Review

Lab 1: Designing and Implementing Database Solutions for SQL Server and Microsoft Azure

- Implement a Hybrid SQL Server solution
- Implement an Azure SQL Database solution
- Implement a MySQL database solution
- Implement a PostgreSQL database solution

After completing this module, students will be able to:

- Install and configure SQL Server on an Azure VM
- Install and configure Azure databases
- Install and configure MySQL and PostgreSQL databases

Module 2: Manage, Design and Implement Database Security

This module explains how to setup security for an on-premises or Azure database

Lessons

- Design and Implement SQL Server database security
- Design and Implement Azure SQL Database security
- Review

Lab 1: Manage, Design and Implement Database Security

- Implement SQL Server database security
- Implement Azure SQL Database security

After completing this module, students will be able to:

- Configure SQL Server database security
- Configure Azure SQL Database security

Module 3: Design for High-Availability, Disaster Recovery and Scalability

This module explains how to configure database solutions for High-Availability, Disaster Recovery and Scalability.

Lessons

- Design and Implement High-Availability Solutions
- Design and Implement Disaster Recovery Solutions
- Design and Implement Scalability Solutions
- Review

Lab 1: Create Microsoft Azure Data Objects using Python

- Implement a High-Availability Solution
- Implement a Disaster Recovery Solution
- Implement a Scalability Solution

After completing this module, students will be able to:

- Configure a High-Availability solution
- Configure a Disaster Recovery Solution
- Configure a Scalability Solution

Module 4: Monitor and Troubleshoot Database Implementations in Azure

This module explains how to monitor and troubleshoot database implementations.

Lessons

- Monitor and Troubleshoot SQL Server VMs on Azure
- Monitor and Troubleshoot Azure SQL Databases
- Review

Lab 1: Create Microsoft Azure Data Processes using Python

- Monitor and Troubleshoot SQL Server
- Monitor and Troubleshoot Azure SQL Databases

After completing this module, students will be able to:

- Monitor and Troubleshoot SQL Servers
- Monitor and Troubleshoot Azure SQL Databases

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