



MICROSOFT TRAINING

Migrate Sql Server To Azure Sql Database Course

Master the skills to efficiently migrate SQL Server instances to Azure SQL Database. Achieve scalable, high-performance cloud data solutions.

DURATION

16 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This intermediate-level "Migrate SQL Server to Azure SQL Database" course is designed for IT professionals aiming to modernize their data infrastructure by moving on-premises SQL Server databases to Microsoft Azure. Participants will gain comprehensive knowledge of various migration strategies, tools, and best practices, including understanding the differences between Azure SQL Database, Azure SQL Managed Instance, and SQL Server on Azure Virtual Machines. The course delves into critical pre-migration assessment techniques, identifying potential compatibility issues, and selecting the most appropriate migration method based on business requirements, downtime tolerance, and complexity. Throughout the 16-hour program, learners will explore hands-on labs covering tools like Azure Data Migration Service (DMS), Data Migration Assistant (DMA), and transactional replication. You'll learn how to execute seamless online and offline migrations, ensuring data integrity and minimal disruption. Post-migration, the course covers essential optimization and management techniques, including performance tuning, security configurations, monitoring with Azure Monitor, and high availability strategies. By mastering these skills, you'll be equipped to drive significant cost savings, enhance database scalability and resilience, and contribute to your organization's cloud transformation journey, solidifying your expertise in cloud database administration.

Duration	16 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to Azure SQL Database and Migration Overview

- Understanding Azure SQL Database offerings: Single Database, Elastic Pools, Managed Instance, SQL Server on Azure VMs
- Key benefits of migrating to Azure SQL Database
- Overview of the migration process and methodologies
- Identifying common migration challenges and considerations

02 Module 2: Pre-Migration Assessment and Planning

- Using Data Migration Assistant (DMA) for assessment
- Assessing database compatibility and identifying remediation steps
- Performance baselining and capacity planning for Azure SQL Database
- Choosing the right Azure SQL Database deployment option
- Estimating costs and resource requirements

03 Module 3: Executing Database Migrations

- Offline migration strategies using Azure Data Migration Service (DMS)
- Online migration strategies using Azure DMS for minimal downtime
- Leveraging transactional replication for continuous synchronization
- Migrating data using BACPAC files and manual methods
- Troubleshooting common migration errors

04 Module 4: Post-Migration Optimization and Management

- Configuring security, firewall rules, and authentication
- Performance tuning and query optimization for Azure SQL Database
- Monitoring Azure SQL Database with Azure Monitor and SQL Analytics
- Implementing high availability and disaster recovery solutions
- Backup and restore strategies in Azure SQL Database

05 Module 5: Advanced Migration Scenarios and Best Practices

- Migrating complex schemas and applications
- Data synchronization between on-premises and Azure using SQL Data Sync
- PowerShell and Azure CLI for automating migration tasks
- Best practices for large-scale enterprise migrations
- Security and compliance considerations in Azure SQL Database

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure Database Administrator**
- > **Cloud Solutions Architect (Data & AI)**
- > **Data Migration Specialist**

FREQUENTLY ASKED QUESTIONS

Q: What foundational knowledge is recommended before taking this course?

This intermediate course assumes you have a solid understanding of SQL Server database administration, including T-SQL querying, database design, backup/restore operations, and basic networking concepts. Familiarity with Azure fundamentals is beneficial but not strictly required, as relevant Azure concepts will be introduced.

Q: What practical skills will I gain that are immediately applicable in a professional role?

Upon completion, you will be able to perform comprehensive pre-migration assessments, identify compatibility issues, plan optimal migration strategies (online/offline), and execute migrations using tools like Azure Data Migration Service (DMS) and Data Migration Assistant (DMA). You'll also learn to configure, optimize, secure, and monitor migrated Azure SQL Databases, enabling you to effectively manage cloud database environments.

Q: How does mastering SQL Server to Azure SQL Database migration enhance my career prospects?

Proficiency in database migration to Azure is a highly sought-after skill in today's cloud-first IT landscape. This course directly enables roles such as Azure Database Administrator, Cloud Solutions Architect, or Data Migration Specialist, positioning you as an expert in cloud adoption and modernization. You'll be instrumental in helping organizations leverage the scalability, cost-efficiency, and high availability of Azure SQL Database, significantly boosting your value in the job market.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading

technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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