



MICROSOFT TRAINING

Sql Server Hybrid Cloud Microsoft Cloud Workshop

Master SQL Server hybrid cloud deployment and management. Learn to integrate on-premises and Azure for optimal data solutions.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

The "SQL Server Hybrid Cloud Microsoft Cloud Workshop" is an intermediate-level, intensive 2-hour program designed for IT professionals seeking to master the intricacies of extending and managing SQL Server deployments across on-premises and Microsoft Azure environments. This workshop provides a deep dive into leveraging Azure services to enhance the capabilities of your existing SQL Server infrastructure, covering essential topics such as migration strategies, disaster recovery, high availability, and performance optimization in a hybrid setting. Participants will gain practical experience in integrating on-premises SQL Server instances with Azure SQL offerings, ensuring data consistency, security, and scalability across your entire data estate. This course covers core technologies such as SQL Server (various versions), Azure SQL Database, Azure SQL Managed Instance, Azure Virtual Machines, and Azure Arc. You will explore how these services work together to create a seamless, resilient, and high-performing data platform. The professional benefits of this workshop are substantial. By equipping you with the skills to design, implement, and manage hybrid data solutions, this course empowers you to modernize your organization's data infrastructure, reduce operational costs through cloud efficiencies, improve business continuity with robust disaster recovery plans, and ensure data security in a complex hybrid landscape. You will be able to drive digital transformation initiatives, making your data infrastructure more agile and capable of meeting evolving business demands. This expertise is crucial for organizations looking to optimize their IT investments and leverage the best of both worlds: the control of on-premises systems and the flexibility and power of the cloud.

Duration	2 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to SQL Server Hybrid Cloud Concepts

- Understanding the benefits and challenges of hybrid cloud data strategies
- Overview of Microsoft Azure services for SQL Server (Azure SQL DB, Managed Instance, VMs)
- Key considerations for extending on-premises SQL Server to Azure
- Introduction to Azure Arc-enabled data services for SQL Server

02 Module 2: Extending On-Premises SQL Server to Azure

- Strategies for migrating SQL Server workloads to Azure (lift-and-shift vs. modernization)
- Implementing Azure File Sync for SQL Server backup and recovery
- Utilizing Azure Virtual Machines for SQL Server deployments
- Connecting on-premises SQL Server to Azure through VPN Gateway or ExpressRoute

03 Module 3: Hybrid High Availability and Disaster Recovery

- Configuring SQL Server Always On Availability Groups with Azure
- Implementing Azure Site Recovery for SQL Server databases
- Utilizing SQL Server Log Shipping and Database Mirroring in a hybrid context
- Developing robust business continuity plans for hybrid SQL Server environments

04 Module 4: Managing and Securing Hybrid SQL Server Environments

- Centralized management of hybrid SQL Server instances using Azure Arc
- Implementing Azure Active Directory authentication for hybrid SQL Server
- Data encryption and security best practices for hybrid deployments

- Monitoring hybrid SQL Server performance with Azure Monitor and Log Analytics

05 Module 5: Performance Optimization and Cost Management

- Optimizing SQL Server performance in Azure Virtual Machines
- Leveraging Azure Hybrid Benefit for cost savings
- Analyzing and optimizing resource allocation for hybrid SQL workloads
- Best practices for cost-effective data storage in Azure

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Hybrid Cloud Database Administrator**
- > **Azure Data Solutions Architect**
- > **Database Modernization Specialist**

FREQUENTLY ASKED QUESTIONS

Q: What specific Azure services and SQL Server functionalities will I gain hands-on experience with to manage a hybrid environment?

This workshop provides practical exposure to integrating on-premises SQL Server with Azure SQL Managed Instance, Azure Virtual Machines, and Azure Arc-enabled SQL Server. You will gain hands-on experience configuring high availability with Always On Availability Groups across hybrid boundaries, setting up disaster recovery using Azure Site Recovery, and implementing centralized management through Azure Arc. The focus is on real-world scenarios for extending, securing, and optimizing your SQL Server data estate.

Q: How does this workshop specifically prepare me to make informed architectural decisions for migrating or modernizing existing on-premises SQL Server workloads to a hybrid cloud model?

The workshop is designed to equip you with the knowledge to evaluate different migration strategies, including lift-and-shift to Azure VMs versus modernizing to Azure SQL Managed Instance or Azure SQL Database. You will learn how to assess existing SQL Server environments, identify suitable Azure counterparts, and understand the implications of each choice regarding cost, performance, security, and manageability. This practical understanding will enable you to design resilient and efficient hybrid architectures tailored to your organization's specific needs.

Q: What are the recommended technical prerequisites for someone looking to get the most out of the SQL Server Hybrid Cloud Microsoft Cloud Workshop?

To fully benefit from this intermediate-level workshop, participants should have a foundational understanding of SQL Server administration, including database management, backup/restore operations, and basic troubleshooting. Familiarity with fundamental networking concepts (VPN, firewalls) and an introductory understanding of Azure core services (Virtual Machines, networking, storage) would be highly advantageous. While not strictly required, prior experience with Azure portal navigation will enhance the learning experience significantly.

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+

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10,000+

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READY TO ENROL?

Take the next step in your technology career.

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