Azure Database Administration

London (UK)

12 - 16 May 2025

UK Traininig
PARTNER

Azure Database Administration

Code: IT28 From: 12 - 16 May 2025 City: London (UK) Fees: 5100 Pound

Introduction

This Advanced Azure Database Administration course provides an intensive program for participants to gain advanced knowledge and skills in Azure Database Administration. Participants will explore the latest technologies, tools, and best practices for managing and optimizing databases within the Azure cloud environment. Through a combination of lectures, hands-on exercises, and real-world scenarios, attendees will acquire the expertise needed to administer Azure databases effectively, ensuring optimal performance, availability, and security.

Course Objectives

- Develop an in-depth understanding of Azure database services and their features.
- Learn advanced techniques for designing and implementing database solutions on Azure.
- Gain proficiency in managing and optimizing Azure SQL databases for high performance and scalability.
- Explore strategies to ensure data security, compliance, and disaster recovery in Azure.
- Master automation and scripting techniques to streamline database administration tasks.
- Acquire skills in monitoring, troubleshooting, and tuning Azure databases to meet business needs.
- Understand best practices for migration, replication, and hybrid scenarios within Azure database environments.

Course Outlines

Day 1: Introduction to Azure Database Services

- Overview of Azure database offerings
- Comparing Azure SQL Database, Azure SQL Managed Instance, and other database services
- Planning and designing database solutions on Azure
- Implementing high availability and disaster recovery strategies

Day 2: Advanced Azure SQL Database Administration

- Optimizing database performance and scalability
- Managing security and access controls in Azure SQL Database
- Implementing advanced data protection features
- Monitoring and troubleshooting Azure SQL Database

Day 3: Automation and Scripting in Azure Database Administration

- Introduction to Azure Automation and PowerShell
- Automating database provisioning and configuration tasks
- Scripting common administration tasks for efficiency

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- Programmatic management of Azure resources

Day 4: Data Management and Integration in Azure

- Implementing data storage and backup solutions in Azure
- Data migration strategies and tools for Azure databases
- Replication and synchronization techniques for distributed databases
- Hybrid cloud scenarios: integrating on-premises and Azure databases

Day 5: Advanced Topics in Azure Database Administration

- Advanced performance tuning and optimization techniques
- Implementing advanced security features in Azure databases
- Scaling and managing large-scale database workloads in Azure
- Best practices for cost optimization and resource management

Conclusion

The Advanced Azure Database Administration course equips participants with comprehensive knowledge in Azure Database Administration, covering essential topics such as database optimization, automation, and security. Participants will gain the technical skills necessary to manage and secure Azure databases effectively and confidently tackle challenges related to performance, scalability, and hybrid integration. This course is ideal for those aiming to achieve Azure Database Administrator certification or those seeking to advance their expertise in Azure database management, enabling them to drive efficiency and reliability in cloud-based database environments.

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