BLACKBIRD FOR TRAINING

Azure Database Administration

21 – 25 June 2027
Düsseldorf (Germany)



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Introduction

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

Course Objectives

By the end of this course, participants will:

- 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.
- 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.

Why Attend this Course: Wins & Losses!

- Gain a comprehensive understanding of Azure Database Administrator responsibilities and skills.
- Prepare for the Azure Database Administrator Certification with expert-led training and hands-on practice.
- Learn how to optimize Azure SQL databases for performance and scalability.
- Master automation and scripting to enhance efficiency in database administration tasks.
- Understand how to manage Azure database replication and ensure data security.
- Explore Azure administrative roles, including the Azure AD Global Administrator and Security Administrator Role Azure.
- Discover best practices for migration, replication, and hybrid scenarios within Azure environments.
- Get equipped to handle real-world challenges in Azure Database Administration, positioning yourself for career advancement.



Conclusion

The Advanced Azure Database Administration Course equips participants with comprehensive knowledge and practical skills in Azure Database Administration. Covering essential topics such as database optimization, automation, and security, this course provides the technical expertise necessary to manage and secure Azure databases effectively. Participants will confidently tackle challenges related to performance, scalability, and hybrid integration, making this course ideal for those aiming to achieve Azure Database Administrator Certification or seeking to advance their expertise in Azure database management. By completing this course, you'll be prepared to drive efficiency and reliability in cloud-based database environments.

Join us to master Azure Database Administration and elevate your career in the cloud!

