BLACKBIRD FOR TRAINING

Building and Managing High Availability Solutions With SQL Server 2022

29 August – 2 September 2027
Cairo (Egypt)

UK Traininig
PARTNER



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Introduction

This intensive course is designed to provide participants with advanced knowledge and practical skills in building and managing high-availability solutions using SQL Server 2022. Through a blend of theoretical discussions, hands-on exercises, and real-world scenarios, participants will gain in-depth insight into the latest features, SQL Server 2022 changes, and best practices to ensure maximum availability, reliability, and resilience for critical databases.

With the evolution of SQL Server 2022 versions and the introduction of new features, understanding how to configure, deploy, and maintain high-availability environments is crucial for IT professionals. Whether you're working with SQL Server 2022 editions or exploring SQL Server 2022 build versions, this course equips you with the knowledge to meet business continuity goals effectively.

Course Objectives

- Understand high availability and disaster recovery HA/DR concepts within the context of SQL Server 2022.
- Explore advanced features and new enhancements in SQL Server 2022 to improve high-availability solutions.
- Learn to design and implement high-availability architectures that align with SQL Server 2022 requirements and specific business needs.
- Master the configuration and management of Always On Availability Groups for seamless failover and data protection.
- Gain skills in using SQL Server 2022 features like Failover Clustering and Log Shipping to secure high availability.
- Develop expertise in monitoring, troubleshooting, and optimizing solutions to ensure peak performance.
- Learn SQL Server 2022 best practices for maintaining and updating high-availability environments.
- Prepare for real-world challenges in deploying and managing SQL Server 2022 high availability solutions.



Course Outlines

Day 1: Introduction to High Availability Concepts

- Overview of high availability and disaster recovery HA/DR concepts.
- Understanding the importance of high availability in modern database environments.
- Review of SQL Server 2022 features, including updates related to high availability.
- Introduction to what is SQL Server 2022 and its role in enterprise environments.

Day 2: Always On Availability Groups

- In-depth exploration of Always On Availability Groups architecture in SQL Server 2022.
- Configuring and setting up Availability Groups using SQL Server 2022 Configuration Manager.
- Managing Availability Group replicas, failover modes, and ensuring data protection.
- Monitoring and troubleshooting Availability Groups using SQL Server 2022 reporting services.

Day 3: Failover Clustering

- Introduction to Failover Clustering in SQL Server 2022.
- Configuring and managing Failover Clusters for high availability.
- Understanding quorum models and configurations to ensure reliability.
- SQL Server 2022 best practices for deploying Failover Clustering in production environments.

Day 4: Log Shipping and Database Mirroring

- Overview of Log Shipping and Database Mirroring techniques in SQL Server 2022.
- Configuring and managing Log Shipping for disaster recovery.
- Implementing Database Mirroring for high availability and seamless failover.
- Comparing Log Shipping, Database Mirroring, and Always On Availability Groups in different SQL Server 2022 editions.

Day 5: Advanced Topics and Best Practices

- Performance tuning and optimization for SQL Server 2022 high availability solutions.
- Using automation and scripting for managing high-availability environments.
- Disaster recovery planning and testing in SQL Server 2022 lifecycle.
- Exploring future trends and innovations in SQL Server 2022 high availability.



Why Attend This Course: Wins & Losses!

- Master advanced features and SQL Server 2022 best practices for high-availability environments.
- Gain hands-on experience with SQL Server 2022 configuration manager and reporting tools.
- Enhance your ability to troubleshoot and optimize SQL Server 2022 high availability solutions.
- Prepare for SQL Server 2022 certification with comprehensive training and real-world applications.
- Understand the nuances of different SQL Server 2022 versions and how they impact high-availability solutions.

Conclusion

This comprehensive course on SQL Server 2022 high availability equips participants with the knowledge and skills to design, implement, and manage robust database solutions. From setting up Always On Availability Groups to mastering Failover Clustering and Log Shipping, attendees will gain practical expertise in ensuring seamless workflow and data resilience. Whether you're preparing for SQL Server 2022 certification or looking to optimize your organization's database infrastructure, this course offers the essential training to excel in the evolving landscape of SQL Server 2022.

Join us to become a leader in SQL Server 2022 high availability and take your database management skills to the next level!

