



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

Sie erreichen uns hier

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Administering Microsoft Azure SQL Solutions

| CODE: | LÄNGE: | PREIS: |
|---------------|-------------------|-----------|
| MCS_DP-300T00 | 32 Hours (4 Tage) | €2,650.00 |

Description

Dieser Training vermittelt Ihnen die Kenntnisse und Fähigkeiten zur Verwaltung einer SQL Server-Datenbankinfrastruktur für Cloud-, lokale und hybride relationale Datenbanken, die mit den Angeboten für relationale Microsoft PaaS-Datenbanken arbeiten. Darüber hinaus ist dieser Training auch für Personen von Nutzen, die Anwendungen entwickeln, die Inhalte aus SQL-basierten relationalen Datenbanken bereitstellen.

Nach Abschluss diesen Training haben Sie Wissen zu folgenden Themen aufgebaut:

- Planen, Bereitstellen und Konfigurieren von Azure SQL-Angeboten
- Überwachen Sie die Datenbankleistung und optimieren Sie eine Datenbank und Abfragen, um eine optimale Leistung zu erzielen
- Planen und konfigurieren Sie eine Hochverfügbarkeitslösung

Zielgruppe

Die Zielgruppe diesen Training sind Datenfachleute, die Daten und Datenbanken verwalten und mehr über die Verwaltung der in Microsoft Azure verfügbaren Datenplattformtechnologien erfahren möchten

Dieser Kurs ist auch für Datenarchitekt*innen und Anwendungsentwickler*innen hilfreich, die verstehen müssen, welche Technologien für die Datenplattform mit Azure verfügbar sind und wie man mit diesen Technologien über Anwendungen arbeiten kann

Voraussetzungen

Erfolgreiche Azure-Datenbankadministratoren beginnen diese Rolle mit professioneller Erfahrung in der Datenbankverwaltung und technischen Kenntnissen von Cloudtechnologien.

Dies gilt insbesondere in folgenden Fällen:

- Arbeit und Entwicklung mit SQL Server und Wartung von SQL Server
- Erfahrung mit Azure, z. B. dem Bereitstellen und Verwalten von Ressourcen

Inhalt

| | |
|--|---|
| | Describe Microsoft Intelligent Data Platform roles |
| | Understand SQL Server in an Azure virtual machine |
| | Design Azure SQL Database for cloud-native applications |
| Prepare to maintain SQL databases on Azure | Explore Azure SQL Database Managed Instance |
| | Explain IaaS options to deploy SQL Server in Azure |
| | Understand hybrid scenarios |
| | Explore performance and security |
| Deploy IaaS solutions with Azure SQL | Explain high availability and disaster recovery options |
| | Explain PaaS options for deploying SQL Server in Azure |
| | Explore single SQL database |
| | Deploy SQL database elastic pool |
| | Understand SQL database hyperscale |
| | Examine SQL managed instance |
| Deploy PaaS solutions with Azure SQL | Describe SQL Edge |
| | Understand compatibility level |
| | Understand Azure preview features |
| Evaluate strategies for migrating to Azure SQL | Describe Azure database migration options |

Choose the right SQL Server Instance option in Azure
 Migrate SQL Server to Azure SQL Database offline
 Migrate SQL Server to Azure SQL Database online
 Migrate SQL workloads to Azure SQL databases Load and move data to Azure SQL Database
 Evaluate migration scenarios to SQL Database Managed Instance
 Migrate to SQL Database Managed Instance
 Migrate SQL workloads to Azure Managed Instance Load and Move data to SQL Database Managed Instance
 Describe Active Directory and Azure Active Directory
 Describe authentication and identities
 Describe Security Principals
 Describe database and object permissions
 Configure database authentication and authorization Identify authentication and authorization failures
 Explore Transparent Data Encryption
 Configure server and database firewall rules
 Explain object encryption and secure enclaves
 Enable encrypted connections
 Describe SQL injection
 Protect data in-transit and at rest Understand Azure Key Vault Implement compliance controls for sensitive data
 Explore data classification
 Explore server and database audit Describe performance monitoring tools
 Implement Dynamic Data Masking Describe critical performance metrics
 Implement Row Level security Establish baseline metrics
 Understand Microsoft Defender for SQL Explore extended events
 Explore Azure SQL Database Ledger Describe Azure SQL Insights
 Implement Azure Purview Describe performance monitoring Explore Query Performance Insight
 Explain how to optimize Azure storage for SQL Server virtual machines
 Describe virtual machine resizing
 Optimize database storage
 Configure SQL Server resources for optimal performance Control SQL Server resources
 Explore database maintenance checks
 Describe database scoped configuration options
 Describe automatic tuning
 Configure databases for optimal performance Describe intelligent query processing
 Understand query plans
 Explain estimated and actual query plans
 Describe dynamic management views and functions
 Explore Query Store
 Identify problematic query plans
 Explore query performance optimization Describe blocking and locking
 Describe wait statistics
 Tune and maintain indexes
 Evaluate performance improvements Understand query hints Explore performance-based design
 Describe normalization
 Choose appropriate data types
 Design indexes Automate deployment of database resources
 Describe deployment models in Azure
 Automate deployment by using Azure Resource Manager templates and Bicep
 Automate deployment by using PowerShell
 Automate deployment by using Azure CLI Create and manage SQL Agent jobs
 Create a SQL Server maintenance plan
 Describe task status notifications Manage Azure PaaS tasks using automation
 Explore Elastic jobs
 Understand Azure Automation
 Build an automation runbook
 Automate database workflows by using Logic Apps
 Monitor automated tasks Describe high availability and disaster recovery strategies
 Describe recovery time objective and recovery point objective
 Explore high availability and disaster recovery options
 Describe Azure high availability and disaster recovery features for Azure Virtual Machines
 Describe high availability and disaster recovery options for PaaS deployments
 Explore an IaaS high availability and disaster recovery solution
 Describe hybrid solutions
 Explore IaaS and PaaS solutions for high availability and disaster recovery
 Describe failover clusters in Windows Server
 Configure Always-on availability groups
 Describe temporal tables in Azure SQL Database
 Describe active geo-replication for Azure SQL Database
 Explore auto-failover groups for Azure SQL Database and Azure SQL Managed Instance Back up and restore databases

- Back up and restore SQL Server running on Azure virtual machines
- Back up a SQL Server virtual machine
- Back up and restore a database using Azure SQL Database

Test und Zertifizierung

Wichtige Information

Dieser Training behandelt prüfungsrelevante Themen zum Examen: DP-300: Administering Relational Databases on Microsoft Azure

Kurstermine

| Datum | Lokation | Time Zone | Sprache | Type | Durchführungsgarantie | PREIS |
|-------------|----------|-----------|---------|-----------------------|-----------------------|-----------|
| 09 Dec 2024 | Wien | CET | German | Classroom | | €2,650.00 |
| 09 Dec 2024 | Wien | CET | German | Instructor Led Online | | €2,650.00 |
| 28 Jan 2025 | Wien | CET | German | Classroom | | €2,650.00 |
| 28 Jan 2025 | Wien | CET | German | Instructor Led Online | | €2,650.00 |
| 14 Apr 2025 | Wien | CEDT | German | Classroom | | €2,650.00 |
| 14 Apr 2025 | Wien | CEDT | German | Instructor Led Online | | €2,650.00 |
| 20 May 2025 | Wien | CEDT | German | Classroom | Yes | €2,650.00 |
| 20 May 2025 | Wien | CEDT | German | Instructor Led Online | Yes | €2,650.00 |
| 15 Jul 2025 | Wien | CEDT | German | Classroom | | €2,650.00 |
| 15 Jul 2025 | Wien | CEDT | German | Instructor Led Online | | €2,650.00 |
| 19 Aug 2025 | Wien | CEDT | German | Classroom | | €2,650.00 |
| 19 Aug 2025 | Wien | CEDT | German | Instructor Led Online | | €2,650.00 |
| 21 Oct 2025 | Wien | CEDT | German | Classroom | | €2,650.00 |
| 21 Oct 2025 | Wien | CEDT | German | Instructor Led Online | | €2,650.00 |
| 17 Nov 2025 | Wien | CET | German | Classroom | | €2,650.00 |
| 17 Nov 2025 | Wien | CET | German | Instructor Led Online | | €2,650.00 |

Zusätzliche Information

[Diese Schulung ist auch als Vor-Ort-Schulung verfügbar. Bitte kontaktieren Sie uns, um mehr zu erfahren.](#)