



Activate Azure SQL Security & Governance

Educational Testing Services
August 22nd – 24th, 2023
9:00am – 5:00pm EST





John Deardurff

Cloud Solution Architect (Global Delivery Team)

Microsoft Certified Trainer (2000 – Current)

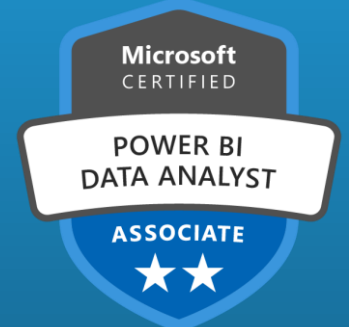
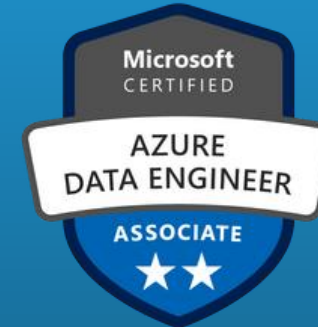
MVP: Data Platform (2016 – 2018)

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GitHub: github.com/SQLMCT



Facilities

Class
hours

Building
hours

Parking

Restrooms

Meals

Phones

Messages

Recycling

Modules

Introduction to
Azure SQL

Managed Instance
Platform and
Network Security

Azure SQL
Business
Continuity

Azure SQL
Security Model

Data Encryption
and Data Security

Auditing and
Advance Data
Security



Agenda Day 1

Introduction to Azure SQL Platform as a Service (PaaS)

- Basic concepts of Azure SQL
- Managing Azure SQL Databases
- Scaling Azure SQL Databases
- Working with Managed Instances

Azure MI Platform and Network Security

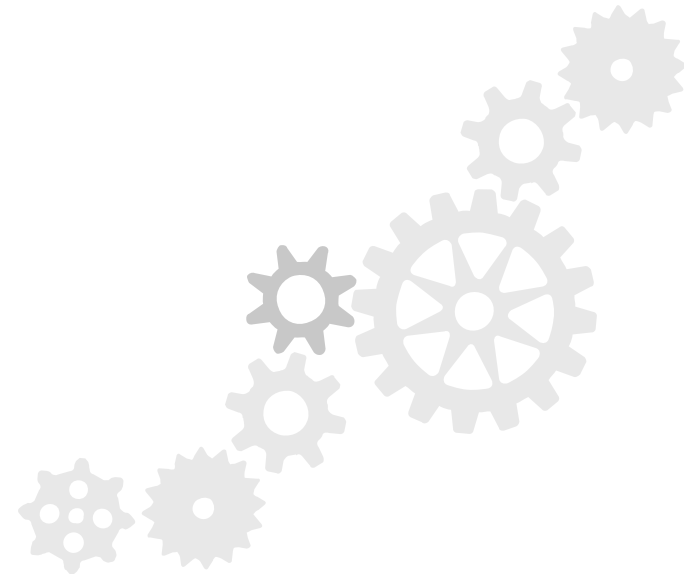
- Overview of Azure SQL MI security
- Isolation and Connectivity
- Azure Virtual Network and Security Rules
- Network Peering



Agenda Day 2

Azure SQL MI Business Continuity

- Business Continuity
- Auto-Failover Groups
- Automated Backups and Retention
- Long-Term Backup Retention
- Database Restores
- Accelerated Database Recovery



Agenda Day 3

Manage Security for Azure SQL MI

- SQL Security Overview
- Authentication and Authorization
- Azure Active Directory and RBAC
- SQL Logins and Users
- SQL Roles
- SQL Permissions and Schemas

Data Encryption and Data Security

- Azure Key Vault
- Transparent Data Encryption (TDE)
- Always Encrypted
- Row Level Security
- Dynamic Data Masking




Agenda Day 4

Auditing and Advanced Data Security

- Introduction to xEvents and SQL Audit
- Implement Auditing for Azure SQL MI
- Azure SQL MI Vulnerability Assessment
- Advanced Threat Protection
- Data Discovery and Classification

Monitoring and Tuning Azure SQL Database

- Lesson 1: Monitoring and Troubleshooting Azure SQL Database
 - Lesson 2: Monitoring Query Performance using Query Performance Insight
 - Lesson 3: Azure SQL Database Tuning using Automatic Tuning
 - Lesson 4: Monitoring Azure SQL Database Performance using Extended Events
 - Lesson 5: Configure Alerts through Azure Portal
- 

Attendee Introductions

Name

Job/Team/Specialty

Time Zone

Experience

Expectations



Get Ready to Participate

Close email and Update Status

Make it interactive

Check all equipment



Dankie Faleminderit **Shukran** Chnorakaloutioun Hvala Blagodaria

Děkuji **Tak** Dank u Tānan Kiitos **Merci** Danke Ευχαριστώ A dank

Mahalo מודה. **Dhanyavād** Köszönöm Takk Terima kasih **Grazie** Grazzi

Thank you!

감사합니다 Paldies Choukrane Ačiū **Благодарам** ありがとうございます

谢谢 Баярлалаа **Dziękuję** Obrigado Mulțumesc **Спасибо** Ngiyabonga

Ďakujem Tack Nandri Kop khun **Teşekkür ederim** Дякую Хвала Diolch

