

## Implement scalable database solutions using Azure SQL (DP-300)

**Varighed: 4 Days    Kursus Kode: M-DP300    Leveringsmetode: Virtuel deltagelse**

### Beskrivelse:

**This course provides students with the knowledge and skills to administer a SQL Server database infrastructure.**

This course provides students with the knowledge and skills to administer a SQL Server database infrastructure for cloud, on-premises and hybrid relational databases and who work with the Microsoft PaaS relational database offerings. Additionally, it will be of use to individuals who develop applications that deliver content from SQL-based relational databases.

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Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

### Målgruppe:

The audience for this course is data professionals managing data and databases who want to learn about administering the data platform technologies that are available on Microsoft Azure. This course is also valuable for data architects and application developers who need to understand what technologies are available for the data platform with Azure and how to work with those technologies through applications.

### Agenda:

- |                                                       |                                                                               |
|-------------------------------------------------------|-------------------------------------------------------------------------------|
| ■ Students will learn to:                             | ■ Configure SQL Server resources for optimal performance                      |
| ■ Prepare to maintain SQL databases on Azure          | ■ Configure databases for optimal performance                                 |
| ■ Deploy IaaS solutions with Azure SQL                | ■ Explore query performance optimization                                      |
| ■ Deploy PaaS solutions with Azure SQL                | ■ Evaluate performance improvements                                           |
| ■ Evaluate strategies for migrating to Azure SQL      | ■ Explore performance-based design                                            |
| ■ Migrate SQL Server workloads to Azure SQL Database  | ■ Automate deployment of database resources                                   |
| ■ Migrate SQL workloads to Azure Managed Instances    | ■ Create and manage SQL Agent jobs                                            |
| ■ Configure database authentication and authorization | ■ Manage Azure PaaS tasks using automation                                    |
| ■ Protect data in-transit and at rest                 | ■ Describe high availability and disaster recovery strategies                 |
| ■ Implement compliance controls for sensitive data    | ■ Explore IaaS and PaaS solutions for high availability and disaster recovery |
| ■ Describe performance monitoring                     | ■ Back up and restore databases                                               |

### Forudsætninger:

**Participants should have:**

- Experience with SQL Server databases and database administration.

### Test og certificering

**Exam DP-300: Implement scalable database solutions using Azure SQL**

- [Microsoft Certified: Azure Database Administrator Associate](#)

- Knowledge of relational database concepts and Transact-SQL (T-SQL).
- Familiarity with Microsoft Azure and Azure data services.
- Understanding of database security, backup and recovery, monitoring, and performance optimization.
- M-AZ900 - Introduction to Cloud Infrastructure (AZ-900)
- M-DP900 - Introduction to Microsoft Azure Data (DP-900)

## Yderligere Kurser:

- M-DP3015 - Get started with Azure Cosmos DB NoSQL development (DP-3015)
- M-DP3020 - Develop data-driven applications with Azure SQL Database

## Indhold:

### Module 1 : Plan and implement data platform resources

- Deploy IaaS solutions with Azure SQL
- Deploy PaaS solutions with Azure SQL
- Migrate SQL Server workloads to Azure SQL Database
- Migrate SQL Server workloads to Azure SQL Managed Instance

### Module 2 : Implement a secure environment for a database service

- Configure database authentication and authorization
- Protect data in-transit and at rest
- Implement compliance controls for sensitive data

### Module 3 : Monitor and optimize operational resources in Azure SQL

- Describe performance monitoring
- Configure SQL Server resources for optimal performance
- Configure databases for optimal performance

### Module 4 : Optimize query performance in Azure SQL

- Explore query performance optimization
- Explore performance-based database design
- Evaluate performance improvements

### Module 5 : Automate database tasks for Azure SQL

- Automate database deployment
- Create and manage SQL Agent jobs
- Manage Azure PaaS tasks using automation

### Module 6 : Plan and implement a high availability and disaster recovery environment

- Describe high availability and disaster recovery strategies
- Explore IaaS and PaaS solutions for high availability and disaster recovery
- Back up and restore databases

## Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

[training@globalknowledge.dk](mailto:training@globalknowledge.dk)

[www.globalknowledge.com/da-dk/](http://www.globalknowledge.com/da-dk/)

Global Knowledge, Stamholmen 110, 2650 Hvidovre