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Learning Style: On Demand

Technology: Microsoft

Difficulty: Intermediate

Course Duration: 12 Hours

Securing Data in Azure and SQL Server



About this course:

Given the ever-growing job of an administrator of the SQL Server database in the present security scene, it's critical to realize how to keep information secure.

With this course, connect the specialists for a look at authentication for the user—who they are—and approval—what they are permitted to do. Besides, get some answers concerning examining framework access and information encryption, to ensure your information is appropriately protected.

You'll inspect these topics through the focal points of different platforms lenses, contrasting what they resemble in SQL Server v.Next on Linux, SQL Server 2016,

and Azure SQL Databases.

This course of computer science presents technologies and features for securing databases. Themes include: Auditing Access to Data, Authorizing Users to Access Resources, Authenticating Users and Connections, and Encrypting Data. You will figure out how to secure information in SQL Server v.Next on Linux, SQL Server 2016, and Databases of Azure SQL.

Course Objective:

You will learn:

- The most effective way to authenticate user logins and connections.
- How to authorize users for resource access.
- The most effective method to review access to information.
- The way to encrypt data at rest and over the wire

Audience:

- Azure developer
- Cybersecurity officer
- IT Support officer
- Microsoft SQL server expert

Prerequisite:

To finish the hands-on components of this course, students will require a subscription to Azure. You can pursue a free Azure preliminary membership (a credit card is compulsory for confirmation, however, you won't be charged for the services of Azure. Note that the free experiment isn't accessible in all locales. It is probable to finish the course and gain a credential without finishing the hands-on rehearses. Recognition with the concepts of database and essential query syntax of SQL.

An eagerness to adapt effectively and drive forward while troubleshooting specialized issues are required.

Course Outline:

1 | Authenticating Users

- Authenticating Connections to SQL Server
- Authorizing Logins to Connect to Databases
- Lab 1
- Knowledge Check

2 | Authorizing Users to Access Resources

- Working with Server Roles

- Working with Database Roles
- Authorizing User Access to Objects
- Lab 2
- Knowledge Check

3 | Auditing Access

- Options for Auditing Data Access in SQL Server
- Implementing SQL Server Audit
- Lab 3
- Knowledge Check

4 | Encrypting Data

- Protecting Data With Encryption
- Lab 4
- Knowledge Check

Final Exam

- Final Exam?