SQL Server 2014, Part 6 of 9: Permissions and Data Protection

Meet the expert: Don Kiely is a featured instructor on many of our SQL Server and Visual Studio courses. He is a nationally recognized author, instructor, and consultant specializing in Microsoft technologies. Don has many years of teaching experience, is the author or co-author of several programming books, and has spoken at many industry conferences and user groups. In addition, Don is a consultant for a variety of companies that develop distributed applications for public and private organizations.

Prerequisites: This course assumes that you have at least a basic familiarity with the concept of relational databases and a basic understanding of what SQL Server is and the high-level tools in it, as well as how to create and manage objects using Management Studio.

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Course description: In the SQL Server 2014: Permissions and Data Protection course you will understand permissions in SQL Server and how they provide granular control over data and objects. Then you will learn how to provide a final layer of defense by encrypting data.

Course outline:

Permissions
- Introduction
- Permissions
- Permission Types
- Permission Statements
- Granting Permissions
- Demo: Assigning Permissions
- Roles, Permissions and Schemas
- Demo: Granting Permissions
- Summary

Default Schemas
- Introduction
- Default Schemas for Users
- Demo: How Schemas Work
- Default Schemas for Groups
- Demo: Potential Problems
- Summary

Execution and Metadata
- Introduction
- Execution Context
- Ownership Chaining
- Changing the Execution Content
- Demo: Execution content
- Metadata Security
- Demo: Permissions and Metadata
- Summary

Data Encryption
- Introduction
- Data Encryption
- Encryption Keys
- Demo: How Encryption Works
- Key Management
- Summary

Encrypting Data
- Introduction
- Demo: Table Creation
- Demo: Certificate Keys
- Demo: Asymmetric Keys
- Demo: Symmetric Keys
- Summary