Module Title	:	AZ-200T04-A: Implement Security in Azure Development Solutions
Duration	:	1 day

Overview

This course is part of a series of four courses to help you prepare for Microsoft's Azure Developer certification exam AZ-200: Develop Core Microsoft Azure Cloud Solutions. These courses are designed for developers who already know how to code in at least one of the Azure-supported languages.

The coursework covers how authentication and authorization work in Azure, and how to implement secure data solutions with: encryption; Azure Key Vault; and SSL and TLS communications.

Audience profile

These courses are for experienced programmers who want to develop and host solutions in Azure. Learners should have some experience with Azure and must be able to program in at least one Azure-supported language. These course focus on C#, Node.js, Azure CLI, Azure PowerShell, and JavaScript.

At course completion

After completing this course, students will be able to:

- Learn about the different authentication options, including multi-factor, available in Azure and how they operate
- Learn about implementing access control in your solution including claims- and role-based authorization
- Implement secure data solutions by using encryption, Azure confidential computing, and SSL/TLS communications
- Manage cryptographic keys in Azure Key Vault

Course Outline

Module 1: Implementing authentication

Lessons

- Implement authentication in applications
- Implement multi-factor authentication

After completing this module, students will be able to:

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- Learn about the different authentication options, including multi-factor, available in Azure and how they operate

Module 2: Implementing access control

Lessons

- Claims-based authorization
- Role-based access control (RBAC) authorization

After completing this module, students will be able to:

- Learn about implementing access control in your solution including claims- and role-based authorization

Module 3: Implementing secure data solutions

Lessons

- Encryption options
- End-to-end encryption
- Implement Azure confidential computing
- Manage cryptographic keys in Azure Key Vault

After completing this module, students will be able to:

- Implement secure data solutions by using encryption, Azure confidential computing, and SSL/TLS communications