



Azure

AZ-500: Microsoft Azure Security Technologies

\$2,595.00

- 4 Days

Upcoming Dates

May 19 - May 22

Sep 08 - Sep 11

Nov 17 - Nov 20

Course Description

This course provides IT Security Professionals with the knowledge and skills needed to implement security controls, maintain an organization's security posture, and identify and remediate security vulnerabilities. This course includes security for identity and access, platform protection, data and applications, and security operations.

Course Outline

Learning Path 1: Security Identity and Access

Master identity and access management in Microsoft Entra ID, securing users, groups, and external identities, implementing authentication and authorization controls, and managing application access and security.

Modules

- Manage security controls for identities and access
- Manage Microsoft Entra application access

Lab:

- Role-Based Access Control

Learning Path 2: Secure Networking

Master the intricacies of securing Azure networks, encompassing virtual networks, encryption, firewall setup, private access, and DDoS protection, with this comprehensive training.

Modules

- Plan and implement security for virtual networks
- Plan and implement security for private access to Azure resources
- Plan and implement security for public access to Azure resources

Labs:

- Network Security Groups and Application Security Groups

- Azure Firewall

Learning Path 3: Secure Compute, Storage, and Databases

Master the art of securing Azure compute resources, storage, and databases, including advanced security measures, encryption, access control, and database protection.

Modules

- Plan and implement advanced security for compute
- Plan and implement security for storage
- Plan and implement security for Azure SQL Database and Azure SQL Managed Instance

Labs:

- Configuring and securing ACR and AKS
- Securing Azure SQL Database
- Service Endpoints and Securing Storage

Learning Path 4: Manage Secure using Microsoft Defender for Cloud and Microsoft Sentinel

Master the art of managing security operations in Azure, from governance and policy creation to infrastructure security, key management, security posture, threat protection, and advanced security monitoring and automation.

Modules

- Implement, and manage enforcement of cloud governance policies
- Microsoft Defender for Cloud Manage security posture by using Microsoft Defender for Cloud
- Configure and manage threat protection by using Microsoft Defender for Cloud
- Configure and manage security monitoring and automation solutions

Labs:

- Key Vault
- Create a Log Analytics Workspace, Azure Storage Account, and Data Collection Rule (DCR)
- Configuring Microsoft Defender for Cloud Enhanced Security Features for Servers
- Enable just-in-time access on VMs
- Microsoft Sentinel

Audience

This course is for Azure Security Engineers who are planning to take the associated certification exam, or who are performing security tasks in their day-to-day job. This course would also be helpful to an engineer that wants to specialize in providing security for Azure-based digital platforms and plays an integral role in protecting an organization's data.

Prerequisites

To get the most out of this course students should:

- Understand security best practices and industry security requirements such as defense in depth, least privileged access, role-based access control, multi-factor authentication, shared responsibility, and zero trust model.
- Be familiar with security protocols such as Virtual Private Networks (VPN), Internet Security Protocol (IPsec), Secure Socket Layer (SSL), disk and data encryption methods.
- Have some experience deploying Azure workloads. This course does not cover the basics of Azure administration, instead the course content builds on that knowledge by adding security specific information.

- Have experience with Windows and Linux operating systems and scripting languages. This course will use PowerShell and the command-line interface (CLI).

To get ready for class, consider the following classes:

- AZ-900: Microsoft Azure Fundamentals
- AZ-104: Microsoft Azure Administrator

What You Will Learn