Document Generated: 04/01/2026

Learning Style: Virtual Classroom

Technology: Microsoft

Difficulty: Beginner

Course Duration: 1 Day

Secure Azure services and workloads with Microsoft Defender for Cloud regulatory compliance controls (SC-5002)

About This Course:

This course offers comprehensive guidance on enhancing the security of Azure

services and workloads by leveraging the Microsoft Cloud Security Benchmark controls. Using Microsoft Defender for Cloud, you will learn to assess, monitor, and implement best practices for securing your cloud environment. The course focuses on utilizing the Azure portal to configure and apply these security controls effectively, helping you identify vulnerabilities, address compliance requirements, and safeguard critical workloads against potential threats.

Course Objectives:

- Azure resource group
- Azure Virtual Network
- How network security groups filter network traffic
- Application security groups
- Defender for Cloud monitoring components
- Implement Microsoft Defender for Cloud
- Security posture
- Workload protections
- Deploy Microsoft Defender for Cloud
- Azure Arc
- Azure Arc capabilities
- Microsoft cloud security benchmark
- Improve your regulatory compliance.
- Configure Microsoft Defender for Cloud policies
- View and edit security policies
- Manage and implement Microsoft Defender for Cloud recommendations
- Explore secure score
- MITRE Attack matrix
- Define brute force attacks
- Understand just-in-time VM access
- Implement just-in-time VM access

- Collect data from your workloads with the Log Analytics agent
- Configure the Log Analytics agent and workspace
- Azure Key Vault basic concepts
- Best practices for Azure Key Vault
- Azure Key Vault security
- Configure Azure Key Vault firewalls and virtual networks
- Azure Key Vault soft delete overview
- Virtual network service endpoints for Azure Key Vault

Audience:

- Cloud Security Professionals
- Azure Administrators
- Security Engineers

Prerequisites:

The Microsoft SC-5002 course, "Secure Azure Services and Workloads with Microsoft Defender for Cloud," has no formal prerequisites. However, to qualify for the Microsoft Applied Skills credential, candidates are encouraged to have familiarity with the following: Azure Infrastructure as a Service (IaaS) and Platform as a Service (PaaS), Azure security capabilities, and regulatory compliance standards.

Course Outline:

- Filter network traffic with a network security group using the Azure portal
- Create a Log Analytics workspace for Microsoft Defender for Cloud
- Set up Microsoft Defender for Cloud
- Configure and integrate a Log Analytics agent and workspace in Defender for Cloud

- Configure Azure Key Vault networking settings
- Connect an Azure SQL server using an Azure Private Endpoint using the Azure portal