



MICROSOFT TRAINING

SC-5002: Secure Azure Services and Workloads with Microsoft Defender for Cloud

Secure Azure services and workloads with Microsoft Defender for Cloud. Master threat protection and compliance to achieve SC-5002 certification.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | www.computer-pride.co.ke

COURSE OVERVIEW

This intermediate-level course, SC-5002: Secure Azure Services and Workloads with Microsoft Defender for Cloud, is meticulously designed for IT professionals seeking to master the robust security capabilities within the Microsoft Azure ecosystem. Over two intensive hours, you will gain deep insights into leveraging Microsoft Defender for Cloud to enhance the security posture of your Azure deployments. The curriculum focuses on practical application, covering everything from initial setup and configuration to advanced threat protection, security policy management, and compliance adherence for various Azure services.

Participants will learn to proactively identify and remediate security vulnerabilities, protect diverse Azure workloads – including virtual machines, storage accounts, SQL databases, and containerized applications – and effectively respond to security threats. This course equips you with the essential skills to implement comprehensive cloud security strategies, ensuring your organization's assets are protected against evolving cyber threats. By completing this program, you will significantly elevate your ability to design, implement, and maintain a secure Azure environment, directly contributing to your professional growth and an organization's resilient security posture.

Duration	2 hours
Level	Intermediate
Vendor	Microsoft
Exam Code	SC-5002

COURSE CURRICULUM

01 Module 1: Introduction to Microsoft Defender for Cloud

- Overview of cloud security challenges and shared responsibility model
- Understanding Microsoft Defender for Cloud's role and capabilities
- Distinction between Cloud Security Posture Management (CSPM) and Cloud Workload Protection (CWP)
- Onboarding and initial configuration of Defender for Cloud in an Azure subscription
- Navigating the Defender for Cloud dashboard and security score

02 Module 2: Managing Security Posture with CSPM

- Implementing security recommendations to improve security score
- Customizing and assigning security policies and initiatives
- Utilizing the asset inventory for comprehensive visibility
- Monitoring regulatory compliance standards and generating reports
- Configuring data collection and workspace integration

03 Module 3: Protecting Azure Compute Workloads

- Securing Azure Virtual Machines and hybrid servers with Defender for Servers
- Implementing Just-in-Time (JIT) VM access
- Enforcing adaptive application controls
- Monitoring file integrity and host-level security events
- Protecting containerized workloads (Azure Kubernetes Service, Azure Container Instances) with Defender for Containers

04 Module 4: Securing Azure Data and Storage Services

- Implementing threat protection for Azure Storage accounts with Defender for Storage
- Securing Azure SQL Databases and SQL Servers on Azure VMs with Defender for SQL

- Protecting Azure Key Vaults with Defender for Key Vault
- Monitoring for sensitive data exposure and suspicious access patterns

05 Module 5: Threat Detection and Incident Response

- Understanding and investigating security alerts within Defender for Cloud
- Integrating Defender for Cloud with Microsoft Sentinel for extended SIEM capabilities
- Configuring automation workflows using Logic Apps for alert remediation
- Creating custom alert rules and suppressing false positives
- Leveraging continuous export for security data analysis

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure Security Engineer**
- > **Cloud Security Analyst**
- > **Security Operations Center (SOC) Specialist - Cloud Focus**

FREQUENTLY ASKED QUESTIONS

Q: What specific Azure services will I learn to protect using Microsoft Defender for Cloud in this SC-5002 course?

In this SC-5002 course, you will gain hands-on expertise in securing a wide array of Azure services, including Azure Virtual Machines (VMs), Azure Storage accounts, Azure SQL Databases, Azure Key Vaults, and containerized workloads such as those running on Azure Kubernetes Service (AKS). The course covers specific Defender plans tailored to these services, enabling you to implement robust, granular protection.

Q: What foundational Azure or security knowledge is recommended before enrolling in the SC-5002: Secure Azure Services and Workloads with Microsoft Defender for Cloud course?

While not strictly mandatory, it is highly recommended that participants have a basic understanding of Azure services, including networking, virtual machines, and storage. Familiarity with fundamental security concepts, such as firewalls, access control, and threat detection, will also be beneficial. This course builds upon these foundational concepts to delve into specialized cloud security practices.

Q: How does mastering Microsoft Defender for Cloud through this course enhance my ability to achieve continuous compliance and governance for Azure workloads?

Mastering Microsoft Defender for Cloud through this course significantly enhances your ability to achieve continuous compliance by teaching you how to utilize its regulatory compliance dashboard. You will learn to map your Azure environment against industry standards like CIS, NIST, and PCI DSS, receive actionable recommendations for compliance gaps, and automate remediation tasks. This empowers you to proactively maintain a strong compliance posture and simplify audit processes for your Azure workloads.

ABOUT COMPUTER PRIDE

**computerpride****East Africa's Premier IT Training Center**

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

Location

1st Flr, ICEA Building
Kenyatta Ave, Nairobi

Email

info@computer-pride.co.ke

Phone

+254 705 900 900

www.computer-pride.co.ke