

KOENIG SOLUTIONS • COURSE OUTLINE

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

Learn to secure Azure services and workloads using Microsoft Defender for Cloud and regulatory compliance controls.

6

MODULES

37

TOPICS

8

HANDS-ON EXERCISES

COURSE OVERVIEW

This course covers filtering network traffic with network security groups and application security groups in the Azure portal, and creating a Log Analytics workspace for Microsoft Defender for Cloud. It then addresses setting up Microsoft Defender for Cloud, including security posture, workload protections, Azure Arc, the Microsoft cloud security benchmark, regulatory compliance, security policies, recommendations, secure score, the MITRE Attack matrix, and just-in-time VM access. It continues with configuring and integrating a Log Analytics agent and workspace in Defender for Cloud, configuring Azure Key Vault networking settings including firewalls, virtual networks, and soft delete, and connecting an Azure SQL server using an Azure Private Endpoint and Private Link.

WHO THIS COURSE IS FOR

Cloud Security Engineers

Security Administrators

Azure Administrators

Compliance Officers

Network Engineers

LEARNING OBJECTIVES

- Configure network and application security groups to filter traffic
- Create a Log Analytics workspace for Microsoft Defender for Cloud
- Implement Microsoft Defender for Cloud and assess security posture
- Configure Microsoft Defender for Cloud policies and recommendations
- Explain secure score and the MITRE Attack matrix
- Implement just-in-time VM access to reduce exposure
- Configure a Log Analytics agent and workspace integration
- Configure Azure Key Vault networking, firewalls, and soft delete

6 Modules, 37 Topics

01

Exercise

Filter Network Traffic with a Network Security Group Using the Azure Portal

TOPICS

- Introduction
- Azure resource group
- Azure Virtual Network
- How network security groups filter network traffic
- Application security groups

02

Exercise

Create a Log Analytics Workspace for Microsoft Defender for Cloud

TOPICS

Introduction · Defender for Cloud monitoring components

03

2 Exercises

Set up Microsoft Defender for Cloud

TOPICS

- Introduction
- 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

04

Exercise

Configure and Integrate a Log Analytics Agent and Workspace in Defender for Cloud

TOPICS

- Introduction
- Collect data from your workloads with the Log Analytics agent
- Configure the Log Analytics agent and workspace

05

2 Exercises

Configure Azure Key Vault Networking Settings

TOPICS

- Introduction
- 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

06

Exercise

Connect an Azure SQL Server Using an Azure Private Endpoint Using the Azure Portal

TOPICS

Introduction · Azure Private Endpoint · Azure Private Link

HANDS-ON EXERCISES

Practise What You Learn

#	MODULE	ACTIVITY
01	Filter Network Traffic with a Network Security Group Using the Azure Portal	Create a virtual network infrastructure
02	Create a Log Analytics Workspace for Microsoft Defender for Cloud	Create a workspace
03	Set up Microsoft Defender for Cloud	■ Enable Defender for Cloud on your Azure subscription ■ Enable just-in-time access on Virtual Machines

#	MODULE	ACTIVITY
04	Configure and Integrate a Log Analytics Agent and Workspace in Defender for Cloud	Collect data from your workloads with the Log Analytics agent
05	Configure Azure Key Vault Networking Settings	■ Configure Key Vault firewall and virtual networks ■ Configure Azure Key Vault recovery management with soft delete and purge protection
06	Connect an Azure SQL Server Using an Azure Private Endpoint Using the Azure Portal	Deploy a virtual machine to test connectivity privately and securely to the SQL server across the private endpoint

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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