

KOENIG SOLUTIONS • COURSE OUTLINE

Zero Trust

Learn to design and implement Zero Trust security across identity, devices, networks, data and applications using Microsoft technologies.

24 Hours

DURATION

10

MODULES

45

TOPICS

7

HANDS-ON LABS

COURSE OVERVIEW

The Microsoft Zero Trust training is a comprehensive program designed to equip participants with the knowledge and skills necessary to implement a Zero Trust security approach within their organizations. Zero Trust is a security model that focuses on protecting digital assets by assuming that no user or device should be trusted by default, regardless of their location or network environment. This training provides a deep understanding of Zero Trust concepts, principles, and best practices, along with hands-on experience in implementing Zero Trust solutions using Microsoft technologies.

WHO THIS COURSE IS FOR

Security Engineers

Network Administrators

Identity and Access Administrators

IT Security Architects

Security Operations Analysts

Systems Administrators

What You Will Learn

- Understand the fundamentals of Zero Trust security and its importance in today's evolving threat landscape
- Explore the core principles and components of the Microsoft Zero Trust framework
- Gain insights into identity-centric security and learn how to implement strong identity and access controls using Microsoft Azure Active Directory and related tools
- Discover techniques to secure devices and endpoints, including secure configuration, device health monitoring, and conditional access policies using Microsoft Endpoint Manager
- Learn about network segmentation, micro-segmentation, and secure network connectivity using Microsoft technologies such as Azure Virtual Networks and Azure Firewall
- Explore data protection strategies in a Zero Trust environment, including data classification, encryption, and data loss prevention (DLP) using Microsoft Information Protection tools
- Understand the application-level security considerations in a Zero Trust architecture and learn to protect applications using Microsoft solutions such as Azure App Service and Azure Kubernetes Service
- Gain practical knowledge in monitoring, logging, and threat detection in a Zero Trust environment using Microsoft Defender for Endpoint and Azure Sentinel
- Learn best practices for incident response, remediation, and continuous security assessment and improvement within the context of Zero Trust
- Explore real-world case studies and examples to understand the practical implementation of Zero Trust using Microsoft technologies

COURSE SYLLABUS

10 Modules, 45 Topics

01

Introduction to Zero Trust

TOPICS

Understanding the Zero Trust security model · Benefits and principles of Zero Trust · Evolution of security architectures

02**Lab**

Zero Trust Identity

TOPICS

- Identity as the foundation of Zero Trust
- Identity verification and authentication
- Role-based access control (RBAC)
- Multi-factor authentication (MFA)
- Identity and access management (IAM) solutions

03**Lab**

Zero Trust Device

TOPICS

Device identification and trust evaluation · Device health and security assessment · Endpoint protection and management · Conditional access policies for devices · Device identity and access controls

04**Lab**

Zero Trust Network

TOPICS

Network segmentation and micro-segmentation · Secure network connectivity (VPNs, SD-WAN) · Network monitoring and traffic analysis · Network access controls and policies · Software-defined perimeters (SDPs)

05**Lab**

Zero Trust Data

TOPICS

- Data classification and protection
- Data encryption and data loss prevention (DLP)
- Data access controls and permissions
- Data governance and compliance
- Data-centric security solutions

06**Lab**

Zero Trust Application

TOPICS

Application-level security controls · Application identity and authentication · Application security testing and scanning · Secure software development lifecycle (SDLC) · Application isolation and containerization

07**Lab**

Zero Trust Operations and Analytics

TOPICS

- Zero Trust monitoring and logging
- Threat intelligence and detection
- Security analytics and behavior analysis
- Incident response and remediation
- Continuous security assessment and improvement

08**Lab**

Implementing Microsoft Zero Trust Solutions

TOPICS

- Microsoft Zero Trust framework and architecture
- Microsoft technologies and solutions for Zero Trust
- Deploying and configuring Zero Trust components
- Best practices for implementing Zero Trust with Microsoft tools
- Case studies and real-world examples

09

Future Trends in Zero Trust

TOPICS

- Emerging technologies in the Zero Trust space
- Evolving threats and security challenges
- Advancements in Zero Trust frameworks and solutions
- Industry trends and predictions

10

Conclusion

TOPICS

- Recap of key concepts and takeaways
- Importance of adopting a Zero Trust approach
- Next steps for implementing Zero Trust in your organization

Practise What You Learn

#	MODULE	ACTIVITY
02	Zero Trust Identity	Implementing Zero Trust Identity Solutions
03	Zero Trust Device	Securing Devices in a Zero Trust Environment
04	Zero Trust Network	Implementing Zero Trust Networking Solutions
05	Zero Trust Data	Securing Data in a Zero Trust Environment
06	Zero Trust Application	Protecting Applications in a Zero Trust Environment
07	Zero Trust Operations and Analytics	Monitoring and Responding to Threats in a Zero Trust Environment
08	Implementing Microsoft Zero Trust Solutions	Implementing Microsoft Zero Trust Solutions

WHAT IS INCLUDED

Everything You Need to Succeed

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

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

Visit koenig-solutions.com

✉ info@koenig-solutions.com