
Microsoft Cybersecurity Architect

Duration: 4 Days **Course Code: M-SC100**

Overview:

This course prepares students with the background to design and evaluate cybersecurity strategies in the following areas: Zero Trust, Governance Risk Compliance (GRC), security operations (SecOps), and data and applications. Students will also learn how to design and architect solutions using zero trust principles and specify security requirements for cloud infrastructure in different service models (SaaS, PaaS, IaaS).

Target Audience:

IT professionals with advanced experience and knowledge in a wide range of security engineering areas, including identity and access, platform protection, security operations, securing data, and securing applications. They should also have experience with hybrid and cloud implementations.

Objectives:

- Design a Zero Trust strategy and architecture
 - Evaluate Governance Risk Compliance (GRC) technical strategies and security operations strategies
 - Design security for infrastructure
 - Design a strategy for data and applications
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Prerequisites:

- Advanced experience and knowledge in identity and access, platform protection, security operations, securing data and securing applications.
 - Experience with hybrid and cloud implementations.
 - M-SC300 - Microsoft Identity and Access Administrator
 - M-SC400 - Microsoft Information Protection Administrator
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Content:

Module 1: Build an overall security strategy and architecture

Learn how to build an overall security strategy and architecture.

Lessons M1

- Introduction
- Zero Trust overview
- Develop Integration points in an architecture
- Develop security requirements based on business goals
- Translate security requirements into technical capabilities
- Design security for a resiliency strategy
- Design a security strategy for hybrid and multi-tenant environments
- Design technical and governance strategies for traffic filtering and segmentation
- Understand security for protocols
- Exercise: Build an overall security strategy and architecture
- Knowledge check
- Summary

After completing module 1, students will be able to:

- Develop Integration points in an architecture
- Develop security requirements based on business goals
- Translate security requirements into technical capabilities
- Design security for a resiliency strategy
- Design security strategy for hybrid and multi-tenant environments
- Design technical and governance strategies for traffic filtering and segmentation

Module 2: Design a security operations strategy

Learn how to design a security operations strategy.

Lessons M2

- Introduction
- Understand security operations frameworks, processes, and procedures
- Design a logging and auditing security strategy
- Develop security operations for hybrid and multi-cloud environments
- Design a strategy for Security Information and Event Management (SIEM) and Security Orchestration,
- Evaluate security workflows
- Review security strategies for incident

Lessons M4

- Introduction
- Interpret compliance requirements and their technical capabilities
- Evaluate infrastructure compliance by using Microsoft Defender for Cloud
- Interpret compliance scores and recommend actions to resolve issues or improve security
- Design and validate implementation of Azure Policy
- Design for data residency Requirements
- Translate privacy requirements into requirements for security solutions

After completing module 4, students will be able to:

- Interpret compliance requirements and their technical capabilities
- Evaluate infrastructure compliance by using Microsoft Defender for Cloud
- Interpret compliance scores and recommend actions to resolve issues or improve security
- Design and validate implementation of Azure Policy
- Design for data residency requirements
- Translate privacy requirements into requirements for security solutions

Module 5: Evaluate security posture and recommend technical strategies to manage risk

Learn how to evaluate security posture and recommend technical strategies to manage risk.

Lessons M5

- Introduction
- Evaluate security postures by using benchmarks
- Evaluate security postures by using Microsoft Defender for Cloud
- Evaluate security postures by using Secure Scores
- Evaluate security hygiene of Cloud Workloads
- Design security for an Azure Landing Zone
- Interpret technical threat intelligence and recommend risk mitigations
- Recommend security capabilities or controls to mitigate identified risks

After completing module 5, students will be able to:

Module 8: Design a strategy for securing PaaS, IaaS, and SaaS services

Learn how to design a strategy for securing PaaS, IaaS, and SaaS services.

Lessons M8

- Introduction
- Specify security baselines for PaaS services
- Specify security baselines for IaaS services
- Specify security baselines for SaaS services
- Specify security requirements for IoT workloads
- Specify security requirements for data workloads
- Specify security requirements for web workloads
- Specify security requirements for storage workloads
- Specify security requirements for containers
- Specify security requirements for container orchestration

After completing module 8, students will be able to:

- Specify security baselines for PaaS, SaaS and IaaS services
- Specify security requirements for IoT, data, storage, and web workloads
- Specify security requirements for containers and container orchestration

Module 9: Specify security requirements for applications

Learn how to specify security requirements for applications.

Lessons M9

- Introduction
- Understand application threat modeling
- Specify priorities for mitigating threats to applications
- Specify a security standard for onboarding a new application
- Specify a security strategy for applications and APIs

After completing module 9, students will be able to:

- Specify priorities for mitigating threats to

management

- Evaluate security operations strategy for sharing technical threat intelligence
- Monitor sources for insights on threats and mitigations

After completing module 2, students will be able to:

- Design a logging and auditing security strategy
- Develop security operations for hybrid and multi-cloud environments.
- Design a strategy for Security Information and Event Management (SIEM) and Security Orchestration, A
- Evaluate security workflows.
- Review security strategies for incident management.
- Evaluate security operations for technical threat intelligence.
- Monitor sources for insights on threats and mitigations.

Module 3: Design an identity security strategy

Learn how to design an identity security strategy.

Lessons M3

- Introduction
- Secure access to cloud resources
- Recommend an identity store for security
- Recommend secure authentication and security authorization strategies
- Secure conditional access
- Design a strategy for role assignment and delegation
- Define Identity governance for access reviews and entitlement management
- Design a security strategy for privileged role access to infrastructure
- Design a security strategy for privileged activities
- Understand security for protocols

After completing module 3, students will be able to:

- Recommend an identity store for security.
- Recommend secure authentication and security authorization strategies.
- Secure conditional access.
- Design a strategy for role assignment and delegation.
- Define Identity governance for access reviews and entitlement management.
- Design a security strategy for privileged role access to infrastructure.
- Design a security strategy for privileged access.

- Evaluate security postures by using benchmarks
- Evaluate security postures by using Microsoft Defender for Cloud
- Evaluate security postures by using Secure Scores
- Evaluate security hygiene of Cloud Workloads
- Design security for an Azure Landing Zone
- Interpret technical threat intelligence and recommend risk mitigations
- Recommend security capabilities or controls to mitigate identified risks

Module 6: Understand architecture best practices and how they are changing with the Cloud

Learn about architecture best practices and how they are changing with the Cloud.

Lessons M6

- Introduction
- Plan and implement a security strategy across teams
- Establish a strategy and process for proactive and continuous evolution of a security strategy
- Understand network protocols and best practices for network segmentation and traffic filtering

After completing module 6, students will be able to:

- Describe best practices for network segmentation and traffic filtering.
- Plan and implement a security strategy across teams.
- Establish a strategy and process for proactive and continuous evaluation of security strategy.

Module 7: Design a strategy for securing server and client endpoints

Learn how to design a strategy for securing server and client endpoints.

Lessons M7

- Introduction
- Specify security baselines for server and client endpoints
- Specify security requirements for servers
- Specify security requirements for mobile devices and clients
- Specify requirements for securing Active Directory Domain Services

applications

- Specify a security standard for onboarding a new application
- Specify a security strategy for applications and APIs

Module 10: Design a strategy for securing data

Learn how to design a strategy for securing data.

Lessons M10

- Introduction
- Prioritize mitigating threats to data
- Design a strategy to identify and protect sensitive data
- Specify an encryption standard for data at rest and in motion

After completing module 10, students will be able to:

- Prioritize mitigating threats to data
- Design a strategy to identify and protect sensitive data
- Specify an encryption standard for data at rest and in motion

Module 4: Evaluate a regulatory compliance strategy

Learn how to evaluate a regulatory compliance strategy.

- Design a strategy to manage secrets, keys, and certificates
- Design a strategy for secure remote access
- Understand security operations frameworks, processes, and procedures
- Understand deep forensics procedures by resource type

After completing module 7, students will be able to:

- Specify security baselines for server and client endpoints
- Specify security requirements for servers
- Specify security requirements for mobile devices and clients
- Specify requirements for securing Active Directory Domain Services
- Design a strategy to manage secrets, keys, and certificates
- Design a strategy for secure remote access
- Understand security operations frameworks, processes, and procedures
- Understand deep forensics procedures by resource type

Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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