

AZ-500T00-Microsoft Azure Security Technologies

Course Duration: 4 Days

Class times: 9am-4pm

Course Level: intermediate

Language: English

Mode of Training: Virtually Instructor-Led

Prerequisites

Job Role: Security Engineer

Related Exam: AZ-500

Audience Profile: This course is for Azure Security Engineers who are planning to take the associated certification exam, or who are performing security tasks in their day-to-day job. This course would also be helpful to an engineer that wants to specialize in providing security for Azure-based digital platforms and play an integral role in protecting an organization's data.

Course Outline

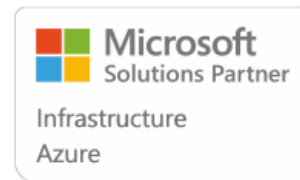
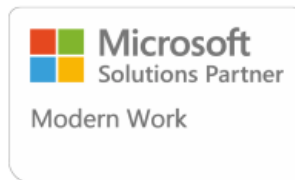
Module 1: Secure Azure solutions with Azure Active Directory

Explore how to securely configure and administer your Azure Active Directory instance.

Learning objectives

By the end of this module, you will be able to:

- Configure Azure AD and Azure AD Domain Services for security
- Create users and groups that enable secure usage of your tenant
- Use MFA to protect user's identities
- Configure passwordless security options



Module 2: Implement Hybrid identity

Explore how to deploy and configure Azure AD Connect to create a hybrid identity solution for your company.

Learning objectives

By the end of this module, you will be able to:

- Deploy Azure AD Connect
- Pick and configure that best authentication option for your security needs
- Configure password writeback

Module 3: Deploy Azure AD identity protection

Protect identities in Azure AD using Conditional Access, MFA, access reviews, and other capabilities.

Learning objectives

By the end of this module, you will be able to:

- Deploy and configure Identity Protection
- Configure MFA for users, groups, and applications
- Create Conditional Access policies to ensure your security
- Create and follow an access review process

Module 4: Configure Azure AD privileged identity management

Ensure that your privileged identities have extra protection and are accessed only with the least amount of access needed to do the job.

Learning objectives

By the end of this module, you'll be able to:

- Describe Zero Trust and how it impacts security
- Configure and deploy roles using Privileged Identity Management (PIM)
- Evaluate the usefulness of each PIM setting as it relates to your security goals



Module 5: Design an enterprise governance strategy

Learn to use RBAC and Azure Policy to limit access to your Azure solutions, and determine which method is right for your security goals.

Learning objectives

By the end of this module, you will be able to:

- Explain the shared responsibility model and how it impacts your security configuration
- Create Azure policies to protect your solutions
- Configure and deploy access to services using RBAC

Module 6: Implement perimeter security

Prevent attacks before they get to your Azure solutions. Use the concepts of defense in depth and zero trust to secure Azure perimeter.

Learning objectives

By the end of this module, you will be able to:

- Define defense in depth
- Protect your environment from denial-of-service attacks
- Secure your solutions using firewalls and VPNs
- Explore your end-to-end perimeter security configuration based on your security posture

Module 7: Configure network security

Use Azure network capabilities to secure your network and applications from external and internal attacks.

Learning objectives

By the end of this module, you will be able to:

- Deploy and configure network security groups to protect your Azure solutions
- Configure and lockdown service endpoints and private links
- Secure your applications with Application Gateway, Web App Firewall, and Front Door
- Configure ExpressRoute to help protect your network traffic



Module 8: Configure and manage host security

Learn to lock down the devices, virtual machines, and other components that run your applications in Azure.

Learning objectives

By the end of this module, you will be able to:

- Configure and deploy Endpoint Protection
- Deploy a privileged access strategy for devices and privileged workstations
- Secure your virtual machines and access to them
- Deploy Windows Defender
- Practice layered security by reviewing and implementing Security Center and Security Benchmarks

Module 9: Enable Containers security

Explore how to secure your applications running within containers and how to securely connect to them.

Learning objectives

By the end of this module, you will be able to:

- Define the available security tools for containers in Azure
- Configure security settings for containers and Kubernetes services
- Lock down network, storage, and identity resources connected to your containers
- Deploy RBAC to control access to containers

Module 10: Deploy and secure Azure Key Vault

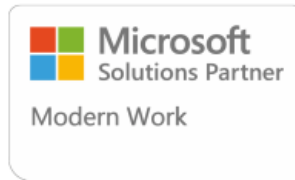
Protect your keys, certificates, and secrets in Azure Key Vault. Learn to configure key vault for the most secure deployment.

Learning objectives

By the end of this module, you will be able to:

- Define what a key vault is and how it protects certificates and secrets
- Deploy and configure Azure Key Vault
- Secure access and administration of your key vault

www.ctl.net
transform@ctl.net
1-868-678-2885



- Store keys and secrets in your key vault
- Explore key security considers like key rotation and backup / recovery

Module 11: Configure application security features

Register your company applications then use Azure security features to configure and monitor secure access to the application.

Learning objectives

By the end of this module, you will be able to:

- Register an application in Azure using app registration
- Select and configure which Azure AD users can access each application
- Configure and deploy web app certificates

Module 11: Implement storage security

Ensure your data is stored, transferred, and accessed in a secure way using Azure storage and file security features.

Learning objectives

By the end of this module, you will be able to:

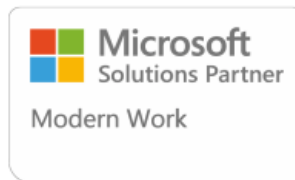
- Define data sovereignty and how that is achieved in Azure
- Configure Azure Storage access in a secure and managed way
- Encrypt your data while it is at rest and in transit
- Apply rules for data retention

Module 12: Configure and manage SQL database security

Configure and lock down your SQL database on Azure to protect your corporate data while it's stored.

Learning objectives

- By the end of this module, you'll be able to:
- Configure which users and applications have access to your SQL databases
- Block access to your servers using firewalls
- Discover, classify, and audit the use of your data
- Encrypt and protect your data while it is stored in the database.



Module 13: Configure and manage Azure Monitor

Use Azure Monitor, Log Analytics, and other Azure tools to monitor the secure operation of your Azure solutions.

Learning objectives

By the end of this module, you will be able to:

- Configure and monitor Azure Monitor
- Define metrics and logs you want to track for your Azure applications
- Connect data sources to and configure Log Analytics
- Create and monitor alerts associated with your solutions security

Module 14: Enable and manage Microsoft Defender for Cloud

Use Microsoft Defender for Cloud to strengthen security posture and protect workloads against modern threats in Azure.

Learning objectives

By the end of this module, you're able to:

- Define the most common types of cyber-attacks
- Configure Microsoft Defender for cloud based on your security posture
- Review Secure Score and raise it
- Lock down your solutions using Microsoft Defender for Cloud's workload protection
- Enable Just-in-Time access and other security features

Module 15: Configure and monitor Microsoft Sentinel

Use Azure Sentinel to discover, track, and respond to security breaches within your Azure environment.

Learning objectives

- By the end of this module, you'll be able to:
- Explain what Azure Sentinel is and how it is used
- Deploy Azure Sentinel
- Connect data to Azure Sentinel, like Azure Logs, Azure AD, and others
- Track incidents using workbooks, playbooks, and hunting techniques