

Cloud Security for Azure Course

Course Duration: 8 Hrs.

Course Code: CS-AZ-101

Course Overview

The **Cloud Security for Azure** course is designed for IT and security professionals who want to secure Microsoft Azure cloud environments. This course focuses on Azure security best practices, including identity and access management, data protection, network security, and threat detection. Participants will gain hands-on experience in securing cloud workloads, implementing compliance controls, and leveraging Azure security tools and services to protect enterprise cloud infrastructure.

What You'll Learn?

By completing this course, you will be able to:

- Understand Azure security architecture and shared responsibility model
- Implement identity and access management using Azure AD
- Secure data at rest and in transit using encryption and key management
- Configure network security, firewalls, and virtual network policies
- Monitor security events and configure threat detection in Azure
- Apply compliance and governance best practices in Azure
- Troubleshoot security issues and optimize cloud security posture

Target Audience

This course is ideal for:

- Cloud Security Engineers

- Azure Administrators and Architects
- Network and Security Professionals
- SOC Analysts and IT Security Teams
- Professionals responsible for securing enterprise Azure environments

Pre-Requisites

Participants should have:

- Basic understanding of cloud computing concepts
- Familiarity with networking and security fundamentals
- Experience with Microsoft Azure is recommended
- Knowledge of identity, access management, and endpoint security concepts

Course Content

Module 1: Introduction to Azure Security

- Azure security overview and architecture
- Shared responsibility model
- Azure security tools and services

Module 2: Identity and Access Management

- Azure Active Directory (AD) setup
- Role-Based Access Control (RBAC)
- Multi-Factor Authentication (MFA) and conditional access

Module 3: Data Protection and Encryption

- Data encryption at rest and in transit

- Azure Key Vault and secrets management
- Secure storage and database configurations

Module 4: Network Security

- Azure Virtual Network and NSGs
- Azure Firewall and DDoS protection
- VPNs, ExpressRoute, and secure connectivity

Module 5: Threat Detection and Monitoring

- Azure Security Center and Defender
- Security alerts, logs, and SIEM integration
- Automated threat detection and response

Module 6: Compliance and Governance

- Regulatory compliance in Azure
- Policy management and blueprints
- Security best practices and operational guidance

Module 7: Troubleshooting and Best Practices

- Security issue diagnostics
- Incident response in Azure
- Optimizing security posture and performance