PURPLE GRIFFON
The IT Service Management Training & Consultancy Specialists

Course Title: Microsoft Azure Security	**Course Duration**: 4.0 Days
Exam: Not Included	**Exam Type**: No Exam
Qualification: Microsoft Azure Security Certificate	

Course Syllabus

Our Microsoft Azure Security training course covers the following Modules:

Module 1: Manage Identity and Access:

This module covers Azure Active Directory, Azure Identity Protection, Enterprise Governance, Azure AD PIM, and Hybrid Identity.

Lessons

- Azure Active Directory
- Azure Identity Protection
- Enterprise Governance
- Azure AD Privileged Identity Management
- Hybrid Identity

Lab: Role-Based Access Control

Lab: Azure Policy

Lab: Resource Manager Locks

Lab: MFA, Conditional Access and AAD Identity Protection

Lab: Azure AD Privileged Identity Management

Lab: Implement Directory Synchronisation

After completing this module, students will be able to:

- Implement enterprise governance strategies, including role-based access control, Azure policies, and resource locks.
- Implement an Azure AD infrastructure, including users, groups, and multi-factor authentication.
- Implement Azure AD Identity Protection, including risk policies, conditional access, and access reviews.
- Implement Azure AD Privileged Identity Management, including Azure AD roles and Azure resources.
- Implement Azure AD Connect, including authentication methods and on-premises directory synchronisation.

Module 2: Implement Platform Protection:

This module covers perimeter, network, host, and container security.

Lessons

- Perimeter Security
- Network Security
- Host Security
- Container Security

Lab: Network Security Groups and Application Security Groups

Lab: Azure Firewall

Lab: Configuring and Securing ACR and AKS

After completing this module, students will be able to:

- Implement perimeter security strategies, including Azure Firewall.
- Implement network security strategies, including Network Security Groups and Application Security Groups.
- Implement host security strategies, including endpoint protection, remote access management, update management, and disk encryption.
- Implement container security strategies, including Azure Container Instances, Azure Container Registry, and Azure Kubernetes.

Module 3: Secure Data and Applications:

This module covers Azure Key Vault, application security, storage security, and SQL database security.

Lessons

- Azure Key Vault
- Application Security
- Storage Security
- SQL Database Security

Lab: Key Vault (Implementing Secure Data by setting up Always Encrypted)

Lab: Securing Azure SQL Database

Lab: Service Endpoints and Securing Storage

After completing this module, students will be able to:

- Implement Azure Key Vault, including certificates, keys, and secrets.
- Implement application security strategies, including app registration, managed identities, and service endpoints.
- Implement storage security strategies, including shared access signatures, blob retention policies, and Azure Files authentication.
- Implement database security strategies, including authentication, data classification, dynamic data masking, and always encrypted.

Module 4: Manage Security Operations:

This module covers Azure Monitor, Azure Security Center, and Azure Sentinel.

Lessons

- Azure Monitor
- Azure Security Center
- Azure Sentinel

Lab: Azure Monitor

Lab: Azure Security Center

Lab: Azure Sentinel

After completing this module, students will be able to:

- Implement Azure Monitor, including connected sources, log analytics and alerts.
- Implement Azure Security Center, including policies, recommendations, and just-in-time virtual machine access.
- Implement Azure Sentinel, including workbooks, incidents, and playbooks.

Course Overview

Our four-day Microsoft Azure Security training course will teach IT Professionals how to manage their security posture across Azure and within their cloud and on-premises solutions. The course covers an end-to-end look at each of the security tools, how to deploy and configure them, and what scenarios they are primarily used for. The security engineer will configure security settings, manage secure identities, build and administer firewalls, configure access policies, and monitor your solution.

Course Learning Outcomes

Our Microsoft Azure Security training course will teach you to become proficient in the following:

- Secure identities with Azure Active Directory and users and groups.
- Configure and manage hybrid identity.
- Deploy and maintain identity protection and privileged identity in Azure.
- Design and manage an enterprise governance strategy for your security profile.
- Configure and manage network and perimeter security solutions to protect your Azure environment.
- Manage the security of any hosts and containers running in your environment.
- Deploy and configure Azure Key Vault.
- Implement and manage application security feature to lock down application access and functionality.
- Implement and maintain storage and database security.
- Configure Azure Monitor and Microsoft Defender for Clouds to protect monitor security operations.
- Analyse your security with Microsoft Sentinel.

Audience

Our Microsoft Azure Security training course will benefit several individuals and organisations, including but not limited to:

- Cloud Architects and Engineers
- Security Professionals
- IT Administrators
- Developers
- Compliance Officers and Auditors
- Risk Managers
- Network and Infrastructure Professionals
- Ethical Hackers and Penetration Testers
- Students and Aspiring Professionals

Entry-Level Requirements

Our Microsoft Azure Security training course requires attendees to have knowledge at the level of our Microsoft Azure Administrator training course.

Successful learners will have prior knowledge and understanding of:

- Security best practices and industry security requirements such as defence in depth, least privileged access, role-based access control, multi-factor authentication, shared responsibility, and zero trust model.
- Be familiar with security protocols such as Virtual Private Networks (VPN), Internet Security Protocol (IPSec), Secure Socket Layer (SSL), disk and data encryption methods.
- Have some experience deploying Azure workloads. This course does not cover the basics of Azure administration, instead the course content builds on that knowledge by adding security specific information.
- Have experience with Windows and Linux operating systems and scripting languages. Course labs may use PowerShell and the CLI.

Recommended Reading

There is no recommended reading for our Microsoft Azure Security training course.

What's Included

Our Microsoft Azure Security training course contains the following:

- 4-day instructor-led training course
- Microsoft Certified training
- One-on-one after course instructor coaching
- Pre-reading
- Course Manuel
- Quizzes
- Exercises

Exam Information

This course can help you prepare for the following Microsoft role-based certification exam - Microsoft Azure Security Technologies.

Please Note: The exam voucher is not included in the cost of the training course.

What's Next

You may enjoy our four day Microsoft Azure Administrator training course.

Our four-day Microsoft Azure Administrator training course teaches IT Professionals how to manage their Azure subscriptions, secure identities, administer the infrastructure, configure virtual networking, connect Azure and on-premises sites, manage network traffic, implement storage solutions, create and scale virtual machines, implement web apps and containers, back up and share data, and monitor your solution.

Additional Information

Our Microsoft Azure Security training course offers several benefits to individuals and organisations, including but not limited to:

- **In-Demand Skill**: Cloud security is a rapidly growing field, and Azure is one of the leading cloud platforms.
- **Career Opportunities:** As more organisations adopt Azure, the demand for professionals with expertise in Azure Security continues to increase.
- **Comprehensive Cloud Security Knowledge:** Azure Security training provides a deep understanding of how to secure cloud environments effectively.
- **Hands-On Experience:** Many Azure Security courses offer practical, hands-on labs that allow you to apply your knowledge in real-world scenarios.
- **Business Confidence:** Organisations need professionals who can ensure the security of their data and applications in the cloud.
- **Mitigate Security Risks:** Learning Azure Security enables you to identify vulnerabilities and implement security measures to protect against potential threats and attacks, reducing the risk of data breaches.
- **Professional Development:** Earning Azure Security certifications, such as the Microsoft Certified: Azure Security Engineer Associate, demonstrates your expertise and commitment to professional development, enhancing your career prospects.
- **Transferable Skills:** Azure Security expertise isn't limited to Azure alone. The skills you acquire can be applied to other cloud platforms and technologies, broadening your career options.