

Azure Networking Essentials



Brief

This course is designed to equip networking professionals and administrators with the core skills needed to manage and operate Azure Networking services. The course covers key networking concepts and practical exercises, enabling participants to design, deploy, and manage networking solutions in a Microsoft Azure environment.

Audience

- IT professionals with basic knowledge of cloud computing and networking
- System administrators looking to expand their knowledge in Azure-based networking solutions
- Professionals responsible for managing or administering Azure infrastructure with a focus on networking

Duration

2 Days

Delivery Mode

- Online
- In-person

Benefits

- Gain a foundational understanding of Azure Networking services and management
- Learn how to deploy, configure, and manage Azure virtual networks, firewalls, and network security
- Hands-on experience through labs preparing participants for real-world Azure networking environments



What to Expect

Participants will walk away with practical skills to:

- Design and manage Virtual Networks (VNets) and Subnets
- Configure network security with Network Security Groups (NSGs) and Azure Firewalls
- Implement advanced networking features like VPN Gateways, Traffic Manager, and simulated ExpressRoute setups
- Secure and optimize network traffic flow in Azure environments

Day 1: Core Azure Services and Infrastructure Management

Introduction to Azure Networking

- Overview of Azure's global network infrastructure
- Introduction to Virtual Networks (VNets) and Subnets
- Lab: Creating and configuring VNets and Subnets

Network Security and Access Control

- Configuring Network Security Groups (NSGs)
- Introduction to Azure Firewall and its configuration
- Lab: Configuring NSGs and setting up an Azure Firewall

Connecting Networks with VPNs

- Implementing VPN Gateway for site-to-site and point-to-site VPN connections
- Lab: Setting up a VPN Gateway for secure communication

Load Balancing and Traffic Distribution

- Azure Load Balancer vs. Traffic Manager
- Configuring Application Gateway for web traffic management
- Lab: Setting up load balancing and configuring Traffic Manager for global distribution



Day 2: Advanced Azure Networking

Simulated ExpressRoute Setup

- Understanding ExpressRoute and its use cases
- Configuring VPN Gateway as a simulation for ExpressRoute
- Lab: Simulated ExpressRoute using VPN Gateway

Optimizing Network Performance

- Implementing Azure Front Door for performance and availability
- Configuring Azure CDN (Content Delivery Network)
- Lab: Deploying Azure Front Door and CDN for improved application performance

Monitoring and Securing Network Traffic

- Using Azure Monitor and Network Watcher for troubleshooting
- Configuring network traffic flow with Azure Firewall Manager
- Lab: Configuring Network Watcher and Firewall Manager for traffic monitoring

Security Best Practices in Azure Networking

- Implementing secure network architectures
- Managing DDoS protection and security best practices
- Lab: Configuring DDoS protection and reviewing secure network design

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