

MS-AZ700T00: DESIGN AND IMPLEMENT MICROSOFT AZURE NETWORK SOLUTIONS

DURATION	LEVEL	TECHNOLOGY	DELIVERY METHOD	CERTIFICATION
3 Days	Intermediate	Azure	Instructor-led	AZ-700 Exam

INTRODUCTION

This course teaches Network Engineers how to design, implement, and maintain Azure networking solutions. This course covers the process of designing, implementing, and managing core Azure networking infrastructure, Hybrid Networking connections, load balancing traffic, network routing, private access to Azure services, network security and monitoring. Learn how to design and implement a secure, reliable, network infrastructure in Azure and how to establish hybrid connectivity, routing, private access to Azure services, and monitoring in Azure.

AUDIENCE PROFILE

This course is for Network Engineers looking to specialize in Azure networking solutions. An Azure Network engineer designs and implements core Azure networking infrastructure, hybrid networking connections, load balance traffic, network routing, private access to Azure services, network security and monitoring. The azure network engineer will manage networking solutions for optimal performance, resiliency, scale, and security.

COURSE OBJECTIVES

After completing this course, students will be able to:

- Design & Implement Core Networking Infrastructure
- Design, Implement & Manage Connectivity Services
- Design & Implement Application Delivery Services
- Design & Implement Private Access to Azure Services
- Design & Implement Network Security Services

PREREQUISITES

Before attending this course, delegates must have:

- Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks.
- Understanding of network configurations, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.
- Understanding of software defined networking.
- Understanding hybrid network connectivity methods, such as VPN.
- Understanding resilience and disaster recovery, including high availability and restore operations.

COURSE CONTENT

Module 1: Design and Implement Microsoft Azure Network Solutions

Learn how to design and implement a secure network infrastructure in Azure and how to establish hybrid connectivity, routing, private access to Azure services, and monitoring in Azure.

Module 1.1: Introduction to Azure Virtual Networks

In this module, you learn how to design and implement Azure networking services. You learn about virtual networks, public and private IPs, DNS, virtual network peering, routing, and Azure Virtual NAT.

Module 1.2: Design and implement hybrid networking

Design and implement hybrid networking solutions such as Site-to-Site VPN connections, Point-to-Site VPN connections, Azure Virtual WAN, and Virtual WAN hubs.

Module 1.3: Design and implement Azure ExpressRoute

You learn how to design and implement Azure ExpressRoute, ExpressRoute Global Reach, ExpressRoute FastPath.

Module 1.4: Load balance non-HTTP(S) traffic in Azure

You learn the different load balancer options in Azure and how to choose and implement the right Azure solution for non-HTTP(S) traffic.

Module 1.5: Load balance HTTP(S) traffic in Azure

You learn how to design load balancer solutions for HTTP(S) traffic and how to implement Azure Application Gateway and Azure Front Door.

Module 1.6: Design and implement network security

You learn to design and implement network security solutions such as Azure DDoS, Network Security Groups, Azure Firewall, and Web Application Firewall.

Module 1.8: Design and implement network monitoring

Module 1.7: Design and implement private access to Azure Services

You learn to design and implement private access to Azure Services with Azure Private Link, and virtual network service endpoints.

You learn to design and implement network monitoring solutions such as Azure Monitor and Network watcher.

ASSOCIATED CERTIFICATIONS & EXAM

This course will prepare delegates to write the AZ-700 Microsoft Certified: Azure Network Engineer Associate Exam.