



REAL WORLD
TECHNOLOGY TRAINING & SOLUTIONS
"Training You Can Really Use"

AZ-700T00: Designing and Implementing Microsoft Azure Networking Solutions

Duration: 3 Days

Method: Instructor-Led Training (ILT) | Live Online Training

Certification: Microsoft Certified: Azure Network Engineer Associate — **Exam:** AZ-700: Designing and Implementing Microsoft Azure Networking Solutions

Course Description

This course teaches participants how to design, implement, and maintain secure Azure networking solutions. They will also learn how to establish hybrid connectivity, routing, private access to Azure services, and monitoring in Azure.

Target Audience

This course is intended for:

- Network Engineers looking to specialize in Azure networking solutions.
- IT professionals whose Azure services touch software-defined networking
- Azure Administrator, Azure Security, or Azure Architect certification candidates
- AWS or Google Cloud professionals who need to understand how Azure software-defined networking works.

Prerequisites

To attend this course, candidates must have:

- Completed the following two-course:
 - [AZ-900T00: Microsoft Azure Fundamentals](#)
 - [AZ-104T00: Microsoft Azure Administrator](#)

OR



Microsoft Partner

Tel: 876-978-1107 / 876-978-1486

WhatsApp: 876-978-9353

E-Mail: training@RWTTTS.com | **Website:** www.RWTTTS.com





Prerequisites *Continued*

- Have equivalent knowledge and hands-on experience in:
 - Enterprise networking, on-premises/cloud infrastructure, and network security.
 - On-premises virtualization technologies, including VMs, virtual networking, and virtual hard disks.
 - Network configurations, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.
 - Software-defined networking.
 - Hybrid network connectivity methods, such as VPN.
 - Resilience and disaster recovery, including high availability and restore operations.

Course Objectives

Upon successful completion of this course, attendees will be able to:

- Design, implement and manage hybrid network connections
- Design and implement core Azure networking infrastructure
- Design and implement routing and load balancing in Azure
- Secure and monitor networks
- Design and implement private access to Azure Services

Course Topics

Module 1: Introduction to Azure Virtual Networks

- Explore Azure Virtual Networks
- Configure Public IP Services
- Design Name Resolution for Your Virtual Network
- Enable Cross-VNet Connectivity with Peering
- Implement Virtual Network Traffic Routing
- Configure Internet Access with Azure Virtual NAT

Module 2: Design and Implement Hybrid Networking

- Design and Implement Azure VPN Gateway
- Connect Networks with Site-to-Site VPN Connections
- Connect Devices to Networks with Point-to-Site VPN Connections
- Connect Remote Resources by Using Azure Virtual WANs
- Create a Network Virtual Appliance (NVA) in a Virtual Hub





Course Topics *Continued*

Module 3: Design and Implement Azure ExpressRoute

- Explore Azure ExpressRoute
- Design an ExpressRoute Deployment
- Configure Peering for an ExpressRoute Deployment
- Connect an ExpressRoute Circuit to a VNet
- Connect Geographically Dispersed Networks with ExpressRoute Global Reach
- Improve Data Path Performance Between Networks with ExpressRoute FastPath
- Troubleshoot ExpressRoute connection issues

Module 4: Load Balancing Non-HTTP(S) Traffic in Azure

- Explore Load Balancing
- Design and Implement Azure Load Balancer Using the Azure Portal
- Explore Azure Traffic Manager

Module 5: Load Balancing HTTP(S) Traffic in Azure

- Design Azure Application Gateway
- Configure Azure Application Gateway
- Design and Configure Azure Front Door

Module 6: Design and Implement Network Security

- Secure Your Virtual Networks in the Azure portal
- Deploy Azure DDoS Protection by Using the Azure Portal
- Deploy Network Security Groups by Using the Azure Portal
- Design and Implement Azure Firewall
- Working with Azure Firewall Manager
- Implement a Web Application Firewall on Azure Front Door

Module 7: Design and Implement Private Access to Azure Services

- Define Private Link Service and Private Endpoint
- Explain Virtual Network Service Endpoints
- Integrate Private Link with DNS
- Integrate Your App Service with Azure Virtual Networks

Module 8: Design and Implement Network Monitoring

- Monitor Your Networks with Azure Monitor
- Monitor Your Networks with Azure Network Watcher

LABS INCLUDED

