



Course Title: AZ-700T00-A Design and Implement Microsoft Azure Networking Solutions [Cloud Slice Provided]	Course Duration: 3.0 Days
Exam: Not Included	Exam Type: Proctored Exam
Qualification: AZ-700 Completion Certificate	

Course Syllabus

1 - Introduction to Azure Virtual Networks

- Explore Azure Virtual Networks
- Configure public IP services
- Design name resolution for your virtual network
- Enable cross-virtual network connectivity with peering
- Implement virtual network traffic routing
- Configure internet access with Azure Virtual NAT

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

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 virtual network
- Connect geographically dispersed networks with ExpressRoute global reach
- Improve data path performance between networks with ExpressRoute FastPath
- Troubleshoot ExpressRoute connection issues

4 - Load balance non-HTTP(S) traffic in Azure

- Explore load balancing
- Design and implement Azure load balancer using the Azure portal
- Explore Azure Traffic Manager

5 - Load balance HTTP(S) traffic in Azure

- Design Azure Application Gateway
- Configure Azure Application Gateway



- Design and configure Azure Front Door

6 - Design and implement network security

- Get network security recommendations with Microsoft Defender for Cloud
- Deploy Azure DDoS Protection by using the Azure portal
- Deploy Network Security Groups by using the Azure portal
- Design and implement Azure Firewall
- Secure your networks with Azure Firewall Manager
- Implement a Web Application Firewall on Azure Front Door

7 - Design and implement private access to Azure Services

- Explain virtual network service endpoints
- Define Private Link Service and private endpoint
- Integrate private endpoint with DNS
- Integrate your App Service with Azure virtual networks

8 - Design and implement network monitoring

- Monitor your networks using Azure monitor
- Monitor your networks using Azure network watcher

Course Overview

This course prepares IT professionals and network engineers to design, implement, and manage networking solutions in Microsoft Azure. Topics include virtual networking, hybrid connectivity, network security, load balancing, routing, monitoring, and network optimization. Cloud Slice labs provide hands-on experience with configuring and troubleshooting Azure networking environments.

Course Learning Outcomes

By the end of this course, learners will be able to design and implement secure and scalable Azure Virtual Networks, configure hybrid connectivity solutions including VPNs and ExpressRoute, implement load balancing and traffic management, manage network security using Azure Firewall, NSGs, and DDoS protection, monitor and optimize network performance, and troubleshoot complex networking scenarios. Learners will have the practical skills to manage enterprise-level Azure networking environments.

Audience

Network engineers, Azure administrators, IT professionals responsible for Azure networking, and those preparing for the AZ-700 certification

Entry-Level Requirements

Experience with Azure administration (AZ-104) and networking fundamentals recommended; familiarity with routing, IP addressing, and firewalls is beneficial

Recommended Reading



Microsoft Learn AZ-700 learning path, Azure Networking documentation, Exam Ref AZ-700 Designing and Implementing Microsoft Azure Networking Solutions

What's Included

Instructor-led training, hands-on labs, course materials, exam preparation guide

Exam Information

This course prepares learners for the AZ-700: Design and Implement Microsoft Azure Networking Solutions certification exam. The exam measures skills in designing, implementing, and managing Azure networking solutions, including connectivity, security, routing, and optimization. It includes multiple-choice, scenario-based, and case-study questions aligned with real-world networking scenarios. Successful candidates earn the Microsoft Certified: Azure Network Engineer Associate credential.

What's Next

After completing AZ-700, learners can pursue advanced Azure certifications such as AZ-305 (Azure Solutions Architect) or AZ-500 (Azure Security Engineer), or specialize in hybrid networking and cloud infrastructure design.

Additional Information

Prerequisites

Prerequisite courses (or equivalent knowledge and hands-on experience):

- [AZ-104T00 - Microsoft Azure Administrator](#)