

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

Course Duration: 3 Days

Class times: 9am-4pm

Course Level: Intermediate

Language: English

Mode of Training: Virtually Instructor-Led

Prerequisites

Job Role: Network Engineer

Related Exam: AZ-700

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 Outline

Module 1: Introduction to Azure Virtual Networks

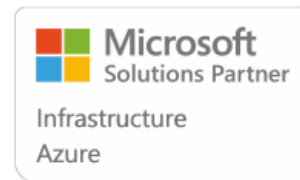
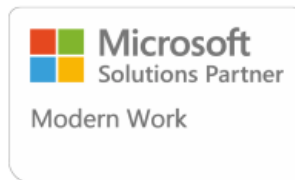
You'll learn how to design and implement core Azure Networking infrastructure such as virtual networks, public and private IPs, DNS, virtual network peering, routing, and Azure Virtual NAT.

Learning objectives

At the end of this module, you'll be able to:

- Implement virtual networks
- Configure public IP services
- Design and implement name resolution
- Design and implement cross-VNET connectivity
- Implement virtual network routing
- Design and implement an Azure Virtual Network NAT

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Module 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.

Learning objectives

At the end of this module, you are able to:

- Design and implement a site-to-site VPN connection
- Design and implement a point-to-site VPN connection
- Design and implement authentication for point-to-site VPN connections
- Design and implement Azure Virtual WAN

Module 3: Design and implement Azure ExpressRoute

You will learn how to design and implement Azure ExpressRoute, ExpressRoute Global Reach, ExpressRoute FastPath, and when to use each service according to your environments requirements.

Learning objectives

- At the end of this module, you will be able to:
- Design and implement ExpressRoute
- Design and implement ExpressRoute Global Reach
- Design and implement ExpressRoute FastPath
- Troubleshoot ExpressRoute connection issues

Module 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.

Learning objectives

At the end of this module, you are able to:

- Identify the features and capabilities of Azure Load Balancer
- Design and implement an Azure Load Balancer
- Implement a Traffic Manager profile



Module 5: Load balance HTTP(S) traffic in Azure

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

Learning objectives

- At the end of this module, you'll be able to:
- Design and implement Azure Application Gateway
- Implement Azure Front Door