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## AZ-700: DESIGN AND IMPLEMENT MICROSOFT AZURE NETWORK SOLUTIONS

LEVEL	INTERMEDIATE	ROLE	NETWORK ENGINEER
DURATION	3 DAY	PRODUCT	AZURE

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## OVERVIEW

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. Successful Azure Network Engineers start this role with experience in enterprise networking, on-premises or cloud infrastructure and network security.

- 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.

## In this course, you will learn how to:

- Design, implement and manage hybrid network connections such as S2S, P2S, Virtual WAN and ExpressRoute.
- Design and implement core Azure networking infrastructure such as VNets, DNS, Public IPs and Vnet Peering
- Design and implement routing and load balancing in Azure using VNet routing, Load balancers, Application Gateway, Front Door, Traffic Manager and Azure Virtual Network NAT.
- Design and implement private access to Azure Services.  
Secure and monitor networks with Firewall, NSGs, WAF and Azure monitor.

## Course Prerequisites:

Before taking this course, have knowledge or training at the level of:

- Introduction to Microsoft Azure (AZ-900), and
- Microsoft Azure Administrator Training (AZ-104).

Successful Azure Network Engineers start this role with experience in enterprise networking, on-premises or cloud infrastructure, and network security. Additionally, an understanding of the following:

- On-premises virtualisation 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.

## Azure Network Training 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.
- **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
- **Module 2: Design and implement hybrid networking**
- **Module 3: Design and implement Azure ExpressRoute**
- **Module 4: load balancing non-HTTP(S) traffic in Azure**
- **Module 5: Load balancing HTTP(S) traffic in Azure**
- **Module 6: Design and implement network security**
- **Module 7: Design and implement private access to Azure Services**
- **Module 8: Design and implement network monitoring**

### Further Information:

For More information, or to book your course

Course AZ-700: Design and Implement Microsoft Azure Network Solutions

<https://smartteklearning.com/Course/az-700-designing-and-implementing-microsoft/>

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