

# MAZR-69 - MOC AZ-700T00 - DESIGNING AND IMPLEMENTING MICROSOFT AZURE NETWORKING SOLUTIONS

Categoria: **Azure**

## INFORMAZIONI SUL CORSO



**Durata:**  
3 Giorni



**Categoria:**  
Azure



**Qualifica Istruttore:**  
Microsoft Certified  
Trainer



**Dedicato a:**  
Professionista IT



**Produttore:**  
Microsoft

## OBIETTIVI

- 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

## PREREQUISITI

- 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.

## CONTENUTI

### **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

**Lab : Exercise: design and implement a Virtual Network in Azure**

**Lab : Exercise: configure DNS settings in Azure**

**Lab : Exercise: connect two Azure Virtual Networks using global virtual network peering**

## **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

**Lab : Exercise: create a Virtual WAN by using Azure Portal**

**Lab : Exercise: create and configure a virtual network gateway**

## **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

**Lab : Exercise: configure an ExpressRoute gateway**

**Lab : Exercise: provision an ExpressRoute circuit**

## **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

**Lab : Exercise: create a Traffic Manager profile using the Azure portal**

**Lab : Exercise: create and configure an Azure load balancer**

## **Module 5: Load balancing HTTP(S) traffic in Azure**

- Design Azure application gateway
- Configure Azure application gateway
- Design and configure Azure front door

**Lab : Exercise: deploy Azure application gateway**

**Lab : Exercise: create a front door for a highly available web application**

## **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

**Lab : Exercise: deploy and configure Azure Firewall using the Azure portal**

**Lab : Exercise: secure your virtual hub using Azure Firewall Manager**

**Lab : Exercise: configure DDoS Protection on a virtual network using the Azure portal**

**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

**Lab : Exercise: create an Azure private endpoint using Azure PowerShell**

**Lab : Exercise: restrict network access to PaaS resources with virtual network service endpoints**

**Module 8: Design and implement network monitoring**

- Monitor your networks with Azure Monitor
- Monitor your networks with Azure Network Watcher

**Lab : Exercise: Monitor a load balancer resource by using Azure Monitor**

## INFO

**Esame:** AZ-700 - Designing and Implementing Microsoft Azure Networking Solutions

**Materiale didattico:** Materiale didattico ufficiale Microsoft in formato digitale

**Costo materiale didattico:** 210 € incluso nel prezzo del corso a Calendario

**Natura del corso:** Operativo (previsti lab su PC)