ITTcert
BY ORSYS

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

Official AZ-700 course, exam preparation

Practical course - 3d - 21h00 - Ref. AZ7
Price : 2280 € E.T.

With this course, you'll learn how to design, implement and maintain network solutions in Microsoft Azure. You'll learn how to create a secure and reliable network infrastructure, connect Azure to your local network, manage traffic routing, use private access to Azure services, secure connections and monitor the entire network.

Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Creating and configuring networks in Azure
- ✓ Connect Azure to local networks (VPN, ExpressRoute)
- ✓ Set up traffic load balancing
- ✓ Securing networks with firewalls and rules
- ✓ Use private access to Azure services
- ✓ Monitor and resolve network problems

Intended audience

Network engineers wishing to specialize in Azure networking solutions, with experience in cloud or local infrastructures, network security and hybrid connectivity.

Prerequisites

Good knowledge of networks, TCP/IP, DNS, network security, as well as practical experience of Azure and basic cloud infrastructure concepts.

Certification

Successful completion of the AZ-700 exam leads to certification as a "Microsoft Certified: Azure Network Engineer Associate".
Comment passer votre examen ?

Practical details

Teaching methods

Training in French. Official course material in digital format and in English. Good understanding of written English.

Course schedule

(1) Introduction to Azure virtual networks

- Explore Azure virtual networks
- Configuring public IP addresses
- Designing DNS resolution for your virtual network
- Enable global peering between virtual networks
- Implement virtual network traffic routing
- Configuring Internet access with virtual NAT

Hands-on work
Design and deploy a virtual network, configure DNS servers in Azure, connect 2 virtual networks with global peering.

(2) Designing and implementing hybrid networking

- Design and implement Azure VPN Gateway.
- Connect networks with site-to-site VPN connections.
- Connect devices via point-to-site VPN connections.
- Connect remote resources via Azure Virtual WAN.
- Create a virtual network device (NVA) in a virtual hub.

Hands-on work
Create and configure a virtual network gateway, create a virtual WAN via the Azure portal.

(3) Designing and implementing Azure ExpressRoute

- Discover Azure ExpressRoute.
- Design an ExpressRoute deployment.
- Configure peering for an ExpressRoute deployment.
- Design a resilient ExpressRoute circuit.
- Connect geographically dispersed networks with ExpressRoute Global Reach.
- Improve data path performance with ExpressRoute FastPath.
- Troubleshoot ExpressRoute connection problems.

Hands-on work
Configure an ExpressRoute gateway, commission an ExpressRoute circuit.

(4) Distribute non-HTTP(S) traffic in Azure

- Explore load balancing.
- Design and implement Azure Load Balancer via the Azure portal.
- Discover Azure Traffic Manager.

Hands-on work
Create and configure an Azure Load Balancer, create a Traffic Manager profile via the Azure portal.

(5) Distribute HTTP(S) traffic in Azure

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

Hands-on work
Deploy Azure Application Gateway, create an Azure Front Door for a highly available web application.

(6) Designing and implementing network security

- Get network security recommendations with Microsoft Defender for Cloud.
- Deploy DDoS protection via the Azure portal.
- Deploy Network Security Groups (NSGs) via the Azure portal.
- Design and implement Azure Firewall.
- deploy and configure Azure Firewall via the Azure portal.
- Secure your networks with Azure Firewall Manager.
- Implement a web application firewall (WAF).

Hands-on work
Configure DDoS protection on a virtual network via the Azure portal, secure your Virtual Hub with Azure Firewall Manager.

(7) Design and implement private access to Azure services

- Explain virtual network service endpoints.
- Define Private Link Service and Private Endpoint.
- Integrate a private endpoint with DNS.

(8) Design and implement network supervision

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

Dates and locations

REMOTE CLASS
2026 : 30 Mar., 24 June, 7 Oct., 9 Dec.

PARIS LA DÉFENSE
2026 : 30 Mar., 24 June, 7 Oct., 9 Dec.