AZ-700 Designing Implementing Microsoft Azure Networking Solutions TRAINING OUTLINE

Module 1: Introduction to Azure Virtual Networks
In this module you will learn how to design and implement fundamental Azure Networking resources such as virtual networks, public and private IPs, DNS, virtual network peering, routing, and Azure Virtual NAT.

Lesson

- 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

Module 2: Design and Implement Hybrid Networking
In this module you will learn how to 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.

Lesson

- 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

Module 3: Design and implement Azure ExpressRoute
In this module you will learn how to design and implement Azure ExpressRoute, ExpressRoute Global Reach, ExpressRoute FastPath and ExpressRoute Peering options.

Lesson

- 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

Module 4: load balancing non-HTTP(S) traffic in Azure
In this module you will learn how to design and implement load balancing solutions for non-HTTP(S) traffic in Azure with Azure Load balancer and Traffic Manager.

Lesson

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

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

In this module you will learn how to design and implement load balancing solutions for HTTP(S) traffic in Azure with Azure Application gateway and Azure Front Door.

Lesson

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

Lab : Exercise: deploy Azure application gatewayLab : Exercise: create a front door for a highly available web application After completing this module, students will be able to:

- Design and implement Azure Application Gateway
- Implement Azure Front Door

Module 6: Design and implement network security

In this module you will learn to design and imponent network security solutions such as Azure DDoS, Azure Firewalls, Network Security Groups, and Web Application Firewall.

Lesson

- 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

Module 7: Design and implement private access to Azure Services

In this module you will learn to design and implement private access to Azure Services with Azure Private Link, and virtual network service endpoints.

Lesson

- 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

Module 8: Design and implement network monitoring

In this module you will learn to design and implement network monitoring solutions such as Azure Monitor and Network watcher.

Lesson

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

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