

## Designing and Implementing Microsoft Azure Networking Solutions

# Exam Ref AZ-700



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Skill 1.1: Design, implement, and manage a site-to-site VPN connection

Design a site-to-site VPN connection for high availability

Select an appropriate virtual network gateway SKU

Identify when to use policy-based VPN versus route-based VPN

Create and configure a local network gateway

Create and configure a virtual network gateway

Create and configure an IPsec/IKE policy

Diagnose and resolve VPN gateway connectivity issues

Skill 1.2: Design, implement, and manage a point-to-site VPN connection Select an appropriate virtual network gateway SKU



Plan and configure RADIUS authentication

Plan and configure certificate-based authentication

Plan and configure Azure Active Directory (Azure AD) authentication

Implement a VPN client configuration file

Diagnose and resolve client-side and authentication issues

### Skill 1.3: Design, implement, and manage Azure ExpressRoute

Choose between provider and direct model (ExpressRoute Direct)

Design and implement Azure cross-region connectivity between multiple ExpressRoute locations

Select an appropriate ExpressRoute SKU and tier

Design and implement ExpressRoute Global Reach

Design and implement ExpressRoute FastPath

Choose between private peering only, Microsoft peering only, or both

Configure private peering

Configure Microsoft peering

Create and configure an ExpressRoute gateway

Connect a virtual network to an ExpressRoute circuit

Recommend a route advertisement configuration

### Configure encryption over ExpressRoute

Implement Bidirectional Forwarding Detection

Diagnose and resolve ExpressRoute connection issues

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Create a virtual network

Plan and configure subnetting for services

Plan and configure subnet delegation



Plan and configure subnetting for Azure Route Server

### Skill 2.2: Design and implement name resolution

Design public DNS zones

Design private DNS zones

Design name resolution inside a virtual network

Configure a public or private DNS zone

Link a private DNS zone to a virtual network

### Skill 2.3: Design and implement cross-VNet connectivity

Implement virtual network peering

Design service chaining, including gateway transit

Design VPN connectivity between virtual networks

### Skill 2.4: Design and implement an Azure Virtual WAN architecture

Design an Azure Virtual WAN architecture, including selecting SKUs and services

Create a hub in Virtual WAN

Connect a virtual network gateway to Azure Virtual WAN

Create a network virtual appliance in a virtual hub

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Associate a route table with a subnet

Configure forced tunneling

Diagnose and resolve routing issues

Skill 3.2: Design and implement an Azure load balancer



Choose an Azure Load Balancer SKU

Choose between public and internal

Create and configure an Azure load balancer

Implement a load balancing rule

Create and configure inbound NAT rules

Create explicit outbound rules for a load balancer

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Recommend Azure Application Gateway deployment options

Choose between manual and autoscale

Create a backend pool

Configure HTTP settings

Configure health probes

Configure listeners

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Configure Transport Layer Security (TLS)

Configure rewrite policies

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Choose an Azure Front Door SKU

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Configure a routing method

Configure endpoints

Create HTTP settings

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Associate a virtual network NAT with a subnet

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Design an Azure Firewall deployment

Create and implement an Azure Firewall deployment

Configure Azure Firewall rules

Create and implement Azure Firewall Manager policies

Create a secure hub by deploying Azure Firewall inside an Azure Virtual WAN hub

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Create a network security group

Associate an NSG to a resource

Create an application security group (ASG)

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