

AZ - 1002 : Configure secure access to your workloads using Azure virtual networking

Course Outline

Module 1: Configure Virtual Networks

- Describe Azure virtual network features and components.
- Identify features and use cases for subnets and subnetting.
- Identify use cases for private and public IP addresses.
- Create a virtual network and assign IP addresses.

Module 2: Configure Azure Virtual Network Peering

- Identify use cases and product features of Azure Virtual Network peering.
- Configure your network to implement Azure VPN Gateway for transit connectivity.
- Extend peering using a hub and spoke network with user-defined routes and service chaining.

Module 3: Manage and Control Traffic Flow in Your Azure Deployment with Routes

- Identify the routing capabilities of an Azure virtual network.
- Configure routing within a virtual network.
- Deploy a basic network virtual appliance.
- Configure routing to send traffic through a network virtual appliance.

Module 4: Host Your Domain on Azure DNS

- Configure Azure DNS to host your domain.

Module 5: Configure Network Security Groups

- Determine when to use network security groups.
- Create network security groups.
- Implement and evaluate network security group rules.
- Describe the function of application security groups.

Module 6: Introduction to Azure Firewall

- Explain how Azure Firewall and Azure Firewall Manager work together to protect Azure virtual networks.
- Evaluate whether Azure Firewall is the right solution to protect your Azure virtual networks from malicious incoming and outgoing traffic.
- Evaluate whether Azure Firewall Premium is suitable for enhanced protection against malicious traffic.
- Evaluate whether Azure Firewall Manager is appropriate for deploying policies across multiple firewalls.
- Identify and describe use cases for Azure Firewall and Azure Firewall Manager.

Module 7: Guided Project - Configure Secure Access to Workloads with Azure Virtual Networking Services

- Create and configure virtual networks.

- Create and configure network security groups (NSGs).
- Create and configure Azure Firewall.
- Configure network routing.
- Create DNS zones and configure DNS settings.

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