AZ-1002: Configure secure access to your workloads using networking with Azure Virtual Network

Configure virtual networks

Introduction

Plan virtual networks

Create subnets

Create virtual networks

Plan IP addressing

Create public IP addressing

Associate public IP addresses

Allocate or assign private IP addresses

Interactive lab simulation

Knowledge check

Summary and resources

Configure Azure Virtual Network peering

Introduction

Determine Azure Virtual Network peering uses

Determine gateway transit and connectivity

Create virtual network peering

Extend peering with user-defined routes and service chaining

Interactive lab simulation

Knowledge check

Summary and resources

Manage and control traffic flow in your Azure deployment with routes

Introduction

Identify routing capabilities of an Azure virtual network

Exercise - Create custom routes

What is an NVA?

Exercise - Create an NVA and virtual machines

Exercise - Route traffic through the NVA

Summary

Host your domain on Azure DNS

Introduction

What is Azure DNS?

Configure Azure DNS to host your domain

Exercise - Create a DNS zone and an A record by using Azure DNS

Dynamically resolve resource name by using alias record

Exercise - Create alias records for Azure DNS

Summary

Configure network security groups

Introduction

Implement network security groups

Determine network security group rules

Determine network security group effective rules

Create network security group rules

Implement application security groups

Interactive lab simulation

Knowledge check

Summary and resources

Introduction to Azure Firewall

Introduction

What is Azure Firewall?

How Azure Firewall works

When to use Azure Firewall

When to use Azure Firewall Premium

Knowledge check

Summary

Guided Project - Configure secure access to workloads with Azure virtual networking services

Introduction

Exercise - Provide network isolation and segmentation for the web application

Exercise - Control the network traffic to and from the web application

Exercise - Protect the web application from malicious traffic and block unauthorized access

Exercise - Operationalize and enforce policy to filter traffic

Exercise - Record and resolve domain names internally

Knowledge check

Summary and resources