

AZ-104: Microsoft Azure Administrator, Part 3 of 5: Configure and Manage Virtual Networking

page 1

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Prerequisites: Azure Fundamentals AZ-900

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Course description: This Certification (AZ-104) Validates how Azure Administrators implement, manage, and monitor an organization's Microsoft Azure environment. This domain encompasses approximately 30-35% of the exam. This course covers: the implementation and management of virtual networking, configuring name resolution, securing access, load balancing, as well as monitoring and troubleshooting.

Course outline:

Virtual Networks

- Introduction
- Virtual Networks
- Subnets
- Demo: Create Virtual Networks
- Multiple NICs
- Demo: Create VM with Multiple NICs
- Summary

IP addressing and Endpoints

- Introduction
- IP addressing and Endpoints
- Public IP Addressing
- Demo: Manage IP Addresses
- Service Endpoints
- Demo: Service Endpoints
- Summary

Azure DNS

- Introduction
- Azure DNS
- Verify Custom Domain
- DNS Record Sets
- DNS for Private Domains
- Demo: DNS Resolution
- Summary

Network Security Groups

- Introduction
- Network Security Groups
- NSG Rules
- Create NSG Rules
- Demo: Network Security Rules
- Summary

VNet Peering

- Introduction

- VNet Peering
- Gateway Transit and Connectivity
- Service Chaining
- Demo: VNet Pairing
- Summary

VNet-to-VNet Connections

- Introduction
- VNet-to-VNet Connections
- Implement Connections
- Gateway SKUs
- Create VPN Connection
- Demo: VNet to VNet Connections
- Summary

Azure Express Route

- Introduction
- Azure Express Route
- Expressroute Capabilities
- Expressroute Connections
- Coexisting and ExpressRoute
- Summary

Network Routing

- Introduction
- Network Routing
- User Defined Routes
- Routing Example
- Create a Routing Table
- Demo: Custom Routing Tables
- Summary

Azure Load Balancer

- Introduction
- Azure Load Balancer
- Public Load Balancer

- Internal Load Balancer
- Backend Pools
- Session Persistence
- Health Probe
- Summary

Azure Traffic Manager

- Introduction
- Azure Traffic Manager
- Priority Routing
- Weighted Routing
- Distributing Network Traffic
- Summary