Course AZ-101T03-A: Implement Advanced Virtual Networking

Course Outline

Module 1: Distributing Network Traffic

In this module, you will learn about three ways to distribute network traffic: Azure Load Balancer, Azure Traffic Manager, and Azure Application Gateway. The Azure Load Balancer delivers high availability and network performance to your applications. The Azure Traffic Manager allows you to control the distribution of user traffic to your service endpoints. The Azure Application Gateway is a web traffic load balancer that enables you to manage traffic to your web applications.
Lessons
- Overview of Network Traffic Distribution Options
- Azure Load Balancer
- Azure Traffic Manager
- Azure Application Gateway

After completing this module, students will be able to:
- Implement and configure Azure Load Balancer, Azure Traffic Manager, and Azure Application Gateway.

Module 2: Site Connectivity

In this module, you will learn and implement two ways to connect your virtual networks: Site-to-Site VPN Connections and ExpressRoute. Site-to-Site VPN connections provide secure tunneling for cross-premises and hybrid configurations. ExpressRoute extends your on-premises networks into the Microsoft cloud over a dedicated private connection facilitated by a connectivity provider.
Lessons
- Site-to-Site VPN Connections
- ExpressRoute

After completing this module, students will be able to:
- Implement and configure Site-to-Site VPN connections and ExpressRoute.

Module 3: Monitoring and Troubleshooting Network Connectivity

In this module, you will learn important skills around troubleshooting virtual network connectivity. The primary tool discussed is Azure Network Watcher. Azure Network Watcher provides IP flow verification, VPN diagnostics, NSG views and flows, and next hop analysis.
Lessons
- Introducing Network Watcher
- Implementing Network Watcher
- Network Troubleshooting Examples

After completing this module, students will be able to:
- Implement and configure Network Watcher and troubleshooting common network issues.