

# **Microsoft Azure Virtual Networks**

**Modality: On Demand**

**Duration: 24 Hours**

## **About this course:**

In this online training, students will explore virtual network configuration via the network configuration files and MS Azure Portal. Students will also explore how network infrastructure can be used to set up and configure balance network traffic utilizing resources like Azure Domain Name System, Application Gateway, Azure Traffic Manager, and Load Balancer. As it's about the cloud, Students will explore how to link your on-site computers to virtual Azure networks as well as build connectivity across sites.

Systems Administrator with MS Azure expertise has an average salary of \$65,319 annually.

## **Course Objective:**

- Methods to plan virtual networks
- How to set up inter-site access to virtual networks with MS Azure
- How the virtual networks are implemented and managed
- Understanding of IP addressing
- How to configure Azure Domain Name System
- How to configure the load balancer, traffic manager, and application gateway
- Understanding of Intersite connectivity

## **Audience:**

This online training program is designed for

- System Administrators
- Network Engineers

## **Prerequisite:**

- Fundamental knowledge of command-line interface and PowerShell scripting
- Basic knowledge of the concepts of networking and virtualization.
- Basic knowledge of cloud computing models

## **Course Outline:**

### **1 | Planning Virtual Networks**

- Overview of Virtual Networks
- Overview of IP Addressing and Name Resolution

- Review Questions Planning Virtual Networks

## 2 | Managing and Deploying Virtual Networks

- Overview of Managing and Deploying Virtual Networks
- Managing Virtual Networks
- Deploying Virtual Machines into a Virtual Network
- Review Questions Managing and Deploying Virtual Networks

## 3 | IP Addressing

- Overview of IP Addressing
- Public and Private IP Addressing
- Multiple NICs in Virtual Machines
- Network Security Groups
- Review Questions IP Addressing

## 4 | Network Services

- Overview of Network Services
- Configuring Azure DNS
- Overview of Network Traffic Distribution Services
- Configuring Load Balancer
- Configuring Traffic Manager
- Configuring Application Gateway
- Review Questions Network Services

## 5 | Intersite Connectivity

- Overview of Intersite Connectivity
- Point-to-Site VPN Connectivity
- Site-to-Site VPN Connections
- VNet-to-VNet VPN Connections
- ExpressRoute
- Review Questions Intersite Connectivity

## 6 | Course Completion

- Final Exam
- Labs Graded