VMware NSX: Install, Configure, Manage V6.2

Duration: **5 Days**

Overview:

This comprehensive, fast paced training course focuses on installing, configuring, and managing VMware NSX®. This course presents VMware NSX as a part of the software-defined data center. You will learn how to use logical switching in VMware NSX to virtualise your switching environment. The course also details logical routing to enable you to dynamically route between virtual environments. You will learn how to take use gateway services, firewall configurations, and security services to help secure and optimise your VMware NSX environment.

Access to a software-defined data center environment is provided through hands-on labs to reinforce the skills and concepts presented in the course.

Target Audience:

Experienced system or network administrators

Pre-requisites:

Before attending this course, students must have:

- Understanding of enterprise switching and routing
- Knowledge of TCP/IP services
- Experience with firewall rule sets
- Understanding of concepts presented in the VMware Data Center Virtualisation Fundamentals course or VDA-DCV certification

Module 1: Course Introduction

- Introductions and course logistics
- Course objectives

Module 2: Software-Defined Data Center

- Describe the evolution of the software-defined data center
- Describe VMware vSphere®
- Describe VMware NSX

Module 3: Management and Control Plane Components

- Understand the management, control, and data planes
- Describe VMware NSX® Manager™
- Describe the VMware NSX® Controller™ cluster

Module 4: Logical Switch Networks

- Describe Ethernet fundamentals
- Describe VMware vSphere® Distributed Switch™
- Describe switch link aggregation
- Describe VLAN
- Describe VXLAN logical switch networks
- Describe VMware NSX controller replication

Module 5: VMware NSX Logical Routing

- Discuss routing protocols
- Describe the VMware NSX logical router
- Describe the NSX Edge Services gateway

Module 6: VMware NSX L2 Bridging

- Understand L2 Bridging and use cases
- Describe L2 software bridging
- Describe L2 hardware bridging

Module 7: NSX Edge Gateway Services

- Describe network address translation
- Describe load balancing
- Describe high availability
- Describe virtual private networking
- Configure L2 VPN
- Configure IPsec VPN
- Configure SSL VPN-Plus

Module 8: VMware NSX Firewall and Security Services

- Describe the NSX edge firewall
- Describe the VMware NSX distributed firewall
- Describe VMware NSX data security
- Describe the Service composer
- Describe the identity-aware firewall

Module 9: Cross- vCenter VMware NSX

- Understand the cross- vCenter VMware NSX feature
- Identify the benefits of the cross-vCenter VMware NSX feature
- Configure the cross-vCenter VMware NSX feature
- Discuss the deployment models for cross-vCenter VMware NSX