

VMware NSX: Install, Configure, Manage [V4.0]

Course Duration: 40 Hours

Course Code: VMNSX4.0

1. Course Overview

The VMware NSX: Install, Configure, Manage [V4.0] course provides comprehensive knowledge and hands-on skills to deploy, configure, and manage VMware NSX environments. This course covers key NSX components, logical switching, routing, security, and network services to enable you to build and operate a robust software-defined data center (SDDC) network. Participants will gain practical experience through real-world labs, ensuring they are job-ready to implement NSX in enterprise environments.

2. What You'll Learn?

After completing this course, you will be able to:

- Understand the architecture and features of VMware NSX.
- Deploy NSX components and perform initial configurations.
- Configure and manage logical switching, routing, and distributed firewall.
- Implement network and security services with NSX.
- Manage and monitor NSX operations effectively.
- Integrate NSX with VMware vSphere and other VMware solutions.

3. Target Audience

This course is designed for:

- Network Administrators
- System Administrators
- Cloud Administrators
- Data Center Engineers
- Security Specialists
- Professionals looking to advance in VMware virtualization and software-defined networking.

4. Pre-Requisites

Before enrolling, participants should have:

- Knowledge of TCP/IP services and network switching/routing.
- Familiarity with vSphere concepts (VMs, vCenter, ESXi).
- Experience with VMware virtualization technologies is recommended.

5. Course Content

Module 1: Course Introduction

- Introduction to VMware NSX
- Course objectives and lab overview

Module 2: VMware NSX Architecture

- NSX components, capabilities, and use cases
- NSX management, control, and data planes

Module 3: Installing and Configuring NSX

- Deploying NSX Manager and NSX Edge
- Configuring transport nodes and segments

Module 4: Logical Switching and Routing

- Creating and managing logical switches
- Configuring tier-0 and tier-1 gateways
- Implementing dynamic routing

Module 5: Security and Distributed Firewall

- Configuring distributed firewalls
- Micro-segmentation concepts
- Security policies and groups

Module 6: Network Services

- Load balancing and VPN services
- NAT and DHCP configurations
- Edge services deployment

Module 7: Operations and Troubleshooting

- Monitoring NSX environment
- Troubleshooting tools and techniques
- Managing logs and events

Module 8: Integration and Use Cases

- Integration with VMware vSphere and other products
- Enterprise use cases for NSX