

VMware NSX: Install, Configure, Manage [V4]

Course Duration: 42 Hours

Course Code: NSX[V4]

1. Course Overview

VMware NSX: Install, Configure, Manage [V4] is an in-depth training program designed to provide hands-on expertise in deploying, configuring, and managing NSX environments. This course covers NSX architecture, networking services, security features, and troubleshooting techniques using the latest version of NSX.

Participants will gain practical knowledge to build scalable, secure, and automated network infrastructures in modern data centers.

2. What You'll Learn

- Understand NSX architecture and core components
- Install and configure VMware NSX environment
- Create and manage logical switching and routing
- Configure network services like NAT, VPN, and load balancing
- Implement micro-segmentation and advanced security policies
- Monitor, troubleshoot, and optimize NSX deployments
- Integrate NSX with VMware vSphere environments
- Automate networking using NSX APIs and tools

3. Target Audience

- Network Administrators
- System Administrators
- Virtualization Engineers
- Cloud Engineers

- Security Professionals
- IT Professionals managing VMware environments

4. Pre-Requisites

- Basic understanding of networking concepts (TCP/IP, switching, routing)
- Familiarity with virtualization concepts
- Experience working with **VMware vSphere** environments
- Knowledge of data center infrastructure is recommended

5. Course Content

Module 1: NSX Introduction & Architecture

- NSX overview and use cases
- NSX architecture and components
- NSX management plane and control plane

Module 2: NSX Installation & Setup

- NSX deployment requirements
- Installing NSX Manager
- Configuring transport zones and profiles

Module 3: Logical Switching

- Layer 2 bridging
- Logical switches configuration
- VLAN vs overlay networking

Module 4: Logical Routing

- Tier-0 and Tier-1 gateways

- Routing configuration and protocols
- High availability setup

Module 5: Network Services

- NAT configuration
- VPN setup (IPSec & SSL VPN)
- Load balancing concepts

Module 6: Security & Micro-Segmentation

- Distributed firewall configuration
- Security policies and rules
- Identity-based firewalling

Module 7: Monitoring & Troubleshooting

- NSX monitoring tools
- Log analysis
- Troubleshooting connectivity issues

Module 8: Automation & Integration

- NSX APIs
- Integration with cloud platforms
- Automation using scripts