

VMware NSX-T Data Center: Install, Configure, Manage [V3.2]

Course Duration: 16 Hours

Course Code: VMNSX-TICM32

1. Course Overview

The **VMware NSX-T Data Center: Install, Configure, Manage [V3.2]** course provides hands-on training to help professionals deploy and manage VMware NSX-T Data Center for virtual networking and security. The training focuses on installing, configuring, and managing NSX-T Data Center environments, including logical switching, routing, firewalling, load balancing, and advanced networking services. Participants will gain the skills required to build scalable and secure network virtualization solutions across multiple platforms.

2. What You'll Learn?

After completing this course, you will be able to:

- Deploy and configure VMware NSX-T Data Center infrastructure.
- Understand the architecture and key components of NSX-T Data Center.
- Create and manage logical switches, routers, and distributed firewalls.
- Configure and deploy advanced network services such as load balancing and VPN.
- Implement micro-segmentation and security policies for workload protection.
- Integrate NSX-T with VMware vSphere and other platforms.
- Troubleshoot and monitor NSX-T Data Center operations.

3. Target Audience

V25.03.01

This course is designed for:

- Network administrators and engineers.
- System administrators and system engineers.
- Data center engineers.
- Cloud administrators.
- Professionals responsible for implementing, managing, and supporting NSX-T Data Center in virtualized and cloud environments.

4. Pre-Requisites

Before attending this course, you should have:

- Knowledge of TCP/IP services.
- Experience with VMware vSphere.
- Understanding of general networking and security concepts.
- Completion of one of the following (or equivalent knowledge):
 - **VMware vSphere: Install, Configure, Manage**
 - **VMware vSphere: Optimize and Scale**

5. Course Content

Module 1: Course Introduction

- Introduction to course objectives, lab environment, and prerequisites.

Module 2: VMware NSX-T Data Center Overview

- NSX-T Data Center architecture and components.
- Key use cases and benefits.

Module 3: Installing and Configuring NSX-T Data Center

- NSX-T Manager, cluster setup, and node deployment.

- Management and control plane architecture.

Module 4: Logical Switching

- Virtual network creation and management.
- Segment configuration and verification.

Module 5: Logical Routing

- Tier-0 and Tier-1 gateways.
- Static and dynamic routing protocols.

Module 6: Distributed and Gateway Firewalls

- Rule configuration and application.
- Micro-segmentation policies.

Module 7: Services

- Load balancer configuration.
- VPN services and NAT.

Module 8: Security and Micro-Segmentation

- Security groups and policies.
- Distributed IDS/IPS overview.

Module 9: Operations and Troubleshooting

- Monitoring NSX-T Data Center.
- Common troubleshooting tools and techniques.

Module 10: NSX-T Data Center Integration

- Integration with vSphere and Kubernetes.
- Multi-cloud networking.