

# VMware NSX – SDN Ninja Program

## NSX Networking Solutions Implementation Workshop

### VMWARE NSX – SDN NINJA PROGRAM

#### LIVE ONLINE

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27 VIRTUAL

#### CONTACT

For more information, please contact  
your VMware Customer Sales  
Executive or the 27 Virtual team

This course focuses on providing students with the skills and competency required to install, configure, and deploy NSX Software Defined Networking solutions. During this five-day hands-on class, students will learn about the latest details of NSX networking, including but not limited to – the deployment and configuration of, NSX switching and routing, NSX Edge services, Federation, and Multi-Tenancy

During the workshop, students will have access to a live NSX environment and should expect to leave the workshop with detailed knowledge of VMware NSX, hands-on experience covering multiple aspects of cloud Networking with VMware NSX, and how they can competently implement NSX Networking solutions.

This class is designed to be delivered as a Live Online Instructor-led event. During the workshop, the topics are delivered through open discussions, whiteboarding, and live demonstrations. Attendees Perform Hand-On Labs to reinforce all of the topics.

#### Course objectives

By the end of this course, participants would have met the following objectives:

- Describe VMware Virtual Cloud Network and the VMware NSX architecture
- Describe the VMware NSX components and main functions
- Explain the VMware NSX key features and benefits
- Deploy and configure VMware NSX infrastructure
- Configure layer 2 logical switching and bridging
- Explain the tiered routing architecture and configure gateways
- Configure advanced services such as VPN and load balancing
- Integrate VMware Identity Manager or LDAP with NSX and configure role-based access control
- Describe NSX-T Data Center Federation use cases and architecture for switching, and routing.
- Use tools and techniques to troubleshoot issues that might arise during and after deployment
- Explain various automation alternatives available for VMware NSX automation

Please bring a laptop and if possible, a second screen (tablet, portable monitor, or smartphone).

#### WONDERING IF YOU SHOULD ATTEND

This technical workshop is designed for:

- Solution Architects
- Technical Managers
- Network Engineers
- Network Administrators
- Cloud Architects
- Data Center Engineers
- vSphere Administrators
- VCP certification is preferred but not required (All would benefit from attending)

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#### NSX Networking Workshop Agenda (All times are in CDT)

DAY 1	
09:00	Introduction to NSX-T Vision and Strategy
10:00	NSX Architecture and Components
10:30	BREAK
10:45	NSX Architecture and Components Cont'd
11:15	<a href="#">Lab – Configure NSX Manager Cluster</a>
11:45	NSX Architecture and Components Cont'd
12:30	LUNCH
13:30	<a href="#">Lab – NSX Manager Initial Configuration</a>
14:00	<a href="#">Lab – Configuring the Infrastructure</a>
14:45	NSX Switching (L2)
15:30	BREAK
15:45	<a href="#">Lab – Create Segments and attach VMs</a>
16:15	NSX Switching (Cont'd)
17:00	END OF DAY
DAY 2	
09:00	Day -1 Review
09:30	<a href="#">Lab – Create Segments Profiles</a>
10:30	BREAK
10:45	VMware NSX DPU-Based Acceleration
11:45	VMware NSX Routing Introduction
12:30	LUNCH
13:30	<a href="#">Lab: Deploy and Configure Edge Nodes</a>
14:30	NSX Single-Tier & Multi-Tier Routing
15:45	BREAK
16:00	<a href="#">Lab – Configure NSX T1 &amp; T0 Routing</a>

17:00	END OF DAY
<b>DAY 3</b>	
09:00	Day 2 Review
09:30	Routing (cont'd) – Packet walk
10:30	BREAK
10:45	Advanced Routing – VRF & EVPN
12:00	<a href="#">Lab: VRF Lite</a>
12:30	LUNCH
13:30	NSX Network Service Overview
14:30	<a href="#">Lab: Network Address Translation</a>
15:00	NSX VPN (L2 & L3)
15:30	BREAK
15:45	<a href="#">Lab: IPSec VPN</a>
16:00	Stateful Active-Active Edge Services
16:30	NSX Advanced Load Balancer
17:15	End of Day
<b>DAY 4</b>	
09:00	Day 3 Review
09:30	NSX Role-Based Access Control
10:15	BREAK <a href="#">Lab: RBAC</a>
10:45	BREAK NSX Role-Based Access Control
11:30	NSX Backup & Restore
12:00	Automation
12:45	LUNCH
13:45	<a href="#">Lab – Automating NSX Day-2 Operations</a>
14:30	NSX Container Plugin
15:15	BREAK
15:30	Network Extension and Workload Migration With HCX
17:00	End of Day

Day 5	
09:00	Day 4 Review
09:30	<a href="#">Lab: NSX Service Implementation Use Cases</a>
12:30	LUNCH
13:30	Multi-Tenancy
14:15	NSX Multisite & Federation
15:45	BREAK
16:00	<a href="#">Lab: Configure NSX Network Federation</a>
17:00	End of Day