



VMware NSX: Micro-Segmentation [V6.3]

Summary:

- Formats: **Classroom, Live Online, Onsite**
- Length: 3 Days

Overview:

In this intensive three-day course, you will explore the security-focused features of VMware NSX® 6.3, including the distributed firewall and the Service Composer, to help drive your microsegmentation deployment to success.

Product Alignment

- NSX 6.3
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Objectives:

By the end of the course, you should be able to meet the following objectives:

- Describe the software-defined data center
- Explain the NSX components and their function in the infrastructure
- Deploy NSX for microsegmentation
- Describe the distributed firewall architecture
- Configure and manage NSX with VMware vSphere® Web Client
- Configure distributed firewall policies
- Use the Service Composer to automate security policy application
- Understand partner integration workflows
- Troubleshoot the distributed firewall from the VMware ESXi™ command-line interface (CLI)
- Troubleshoot the distributed firewall from the NSX central CLI

Intended Audience: Experienced system administrators, network administrators, and engineers or system integrators responsible for implementing security policy in the software-defined data center

Prerequisites: You should understand security concepts.

Outline:

1. Course Introduction

- Introductions and course logistics
- Course objectives
- Describe the content of this course
- Familiarize yourself with the benefits of the VMware Education Learning Zone
- Identify additional resources
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2. NSX and the Software-Defined Data Center

- Describe the software-defined data center
- Understand the differences in security approach between the traditional data center and the software-defined data center

3. Management Plane Components

- Understand the management, control, and data planes
- Describe VMware NSX® Manager™
- Describe the NSX infrastructure and component communications
- Install NSX components for host preparation
- Troubleshoot host preparation problems
- Introduce the NSX central CLI



4. Data Plane Components

- Describe the distributed firewall components and explain how they communicate with each other
- Validate proper functioning of data plane components through the ESXi CLI
- Validate proper functioning of data plane components through the NSX central CLI

5. NSX Edge Firewall

- Describe the NSX Edge firewall
- Explain how the distributed firewall and NSX Edge firewall rules are managed by NSX Manager
- Validate and troubleshoot the NSX Edge firewall through the NSX Edge CLI

6. NSX Distributed Firewall

- Describe the NSX distributed firewall
- Explain how NSX service chaining dynamically responds to changing security conditions
- Explain how the distributed firewall, the filtering module, and traffic redirection modules work together
- Use the ESXi CLI to troubleshoot the distributed firewall
- Use the NSX central CLI to troubleshoot the distributed firewall

7. NSX Service Composer

- Describe the Service Composer
- Describe the Service Composer architecture
- Explain how NSX service chaining dynamically responds to changing security conditions
- Use the Service Composer to create dynamic security policy
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8. NSX Identity-Based Firewalling

- Describe the identity-aware firewall
- Configure the NSX identity-based firewall

9. NSX Partner Integration Solutions

- Explain the architecture of Guest Introspection with third-party devices
- Explain how the distributed firewall, the filtering module, and traffic redirection modules work together