

## VMware NSX: Micro-Segmentation v6.3 - EDU-NSXMS63- OE v6.3

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### Course Summary

#### Description

In this 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.

#### Objectives

By the end of this course, students will be able to:

- 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

#### Topics

- Course Introduction
- NSX and the Software-Defined Data Center
- Management Plane Components
- Data Plane Components
- NSX Edge Firewall
- NSX Distributed Firewall
- NSX Service Composer
- NSX Identity-Based Firewalling
- NSX Partner Integration Solutions

#### Audience

This course is designed for experienced system administrators, network administrators, and engineers or system integrators responsible for implementing security policy in the software-defined data center.

#### Prerequisite

Students should understand security concepts.

#### Duration

Three Days

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### Course Outline

#### I. *Course Introduction*

- A. Introductions and course logistics
- B. Course objectives
- C. Describe the content of this course
- D. Familiarize yourself with the benefits of the VMware Education Learning Zone
- E. Identify additional resources

#### II. *NSX and the Software-Defined Data Center*

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

#### III. *Management Plane Components*

- A. Understand the management, control, and data planes
- B. Describe VMware NSX Manager
- C. Describe the NSX infrastructure and component communications
- D. Install NSX components for host preparation
- E. Troubleshoot host preparation problems
- F. Introduce the NSX central CLI

#### IV. *Data Plane Components*

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

#### V. *NSX Edge Firewall*

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

#### VI. *NSX Distributed Firewall*

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

#### VII. *NSX Service Composer*

- A. Describe the Service Composer
- B. Describe the Service Composer architecture
- C. Explain how NSX service chaining dynamically responds to changing security conditions
- D. Use the Service Composer to create dynamic security policy

#### VIII. *NSX Identity-Based Firewalling*

- A. Describe the identity-aware firewall
- B. Configure the NSX identity-based firewall

#### IX. *NSX Partner Integration Solutions*

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