



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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<b>CODE:</b>	<b>LENGTH:</b>	<b>PRICE:</b>
VMW_NSXIS4	40 Hours (5 days)	€3,440.00

## Description

This five-day, hands-on training course provides you with the knowledge, skills, and tools to achieve competency in configuring, operating, and troubleshooting VMware NSX® for intrinsic security. This course introduces all the security features in NSX, including Distributed Firewall and Gateway Firewall, Intrusion Detection and Prevention (IDS/IPS), NSX Application Platform, NSX Malware Prevention, VMware NSX® Intelligence™, and VMware NSX® NDR™. In addition, this course presents common configuration issues and gives a methodology to resolve them.

## Objectives

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

- Define the concepts related to information security
- Explain the different types of firewalls and their use cases
- Describe the operation of intrusion detection and intrusion prevention systems
- Differentiate between Malware Prevention approaches
- Describe the VMware intrinsic security portfolio
- Use NSX segmentation to implement Zero-Trust Security
- Configure user and role management
- Configure and troubleshoot Distributed Firewall, Identity Firewall, and time-based policies
- Configure and troubleshoot Gateway Security
- Use VMware Aria Operations™ for Logs and VMware Aria Operations™ for Networks to operate NSX firewalls
- Explain the security best practices related to grouping, tagging, and rule configuration
- Describe north-south and east-west service insertion
- Describe endpoint protection
- Configure and troubleshoot IDS/IPS
- Deploy NSX Application Platform
- Configure and troubleshoot NSX Malware Prevention
- Describe the capabilities of NSX Intelligence and NSX NDR

## Audience

- Experienced security administrators

## Prerequisites

You should also have the following understanding or knowledge:

- Good understanding of TCP/IP services and protocols
  - Knowledge and working experience of network security, including:
    - L2 through L7 firewalling
    - Intrusion detection and prevention systems
    - Malware prevention systems
  - Knowledge of and working experience with VMware vSphere® environments
- The VMware Certified Technical Associate - Network Virtualization is recommended.

## Programme

- 1 Course Introduction
  - Introduction and course logistics
  - Course objectives
- 2 Security Basics

- Define the concepts related to information security
  - Explain the different types of firewalls and their use cases
  - Describe the operation of IDS/IPS
  - Differentiate between Malware Prevention approaches
- ### 3 VMware Intrinsic Security
- Define the VMware intrinsic security strategy
  - Describe the VMware intrinsic security portfolio
  - Explain how NSX aligns with the intrinsic security strategy
- ### 4 Implementing Zero-Trust Security
- Define Zero-Trust Security
  - Describe the five pillars of a Zero-Trust architecture
  - Define NSX segmentation and its use cases
  - Describe the steps needed to enforce Zero-Trust with NSX segmentation
- ### 5 User and Role Management
- Integrate NSX and VMware Identity Manager™
  - Integrate NSX and LDAP
  - Describe the native users and roles in NSX
  - Create and assign custom user roles
  - Explain object-based RBAC in a multitenancy environment
- ### 6 Distributed Firewall
- Configure Distributed Firewall rules and policies
  - Describe the NSX Distributed Firewall architecture
  - Troubleshoot common problems related to NSX Distributed Firewall
  - Configure time-based policies
  - Configure Identity Firewall rules
  - Configure the distributed firewall to block malicious IPs
- ### 7 Gateway Security
- Configure Gateway Firewall rules and policies
  - Describe the architecture of the Gateway Firewall
  - Identify and troubleshoot common Gateway Firewall issues
  - Configure TLS Inspection to decrypt traffic for both internal and external services
  - Configure URL filtering and identify common configuration issues
- ### 8 Operating Internal Firewalls
- Use VMware Aria Operations for Logs and VMware Aria Operations for Networks to operate NSX firewalls
  - Explain security best practices related to grouping, tagging, and rule configuration
- ### 9 Network Introspection
- Explain network introspection
  - Describe the architecture and workflows of north-south and east-west service insertion
  - Troubleshoot north-south and east-west service insertion
- ### 10 Endpoint Protection
- Explain endpoint protection
  - Describe the architecture and workflows of endpoint protection
  - Troubleshoot endpoint protection
- ### 11 Intrusion Detection and Prevention
- Describe the MITRE ATT&CK framework
  - Explain the different phases of a cyber attack
  - Describe how NSX security solutions can be used to protect against cyber attacks
  - Configure and troubleshoot Distributed IDS/IPS
  - Configure and troubleshoot North-South IDS/IPS
- ### 12 NSX Application Platform
- Describe NSX Application Platform and its use cases
  - Identify the topologies supported for the deployment of NSX Application Platform
  - Deploy NSX Application Platform
  - Explain the NSX Application Platform architecture and services
  - Validate the NSX Application Platform deployment and troubleshoot common issues
- ### 13 NSX Malware Prevention
- Identify use cases for NSX Malware Prevention
  - Identify the components in the NSX Malware Prevention architecture
  - Describe the NSX Malware Prevention packet flows for known and unknown files
  - Configure NSX Malware Prevention for east-west and north-south traffic
- ### 14 NSX Intelligence and NSX NDR
- Describe NSX Intelligence and its use cases
  - Explain NSX Intelligence visualization, recommendation, and network traffic analysis capabilities
  - Describe NSX NDR and its use cases
  - Explain the architecture of NSX NDR in NSX
  - Describe the visualization capabilities of NSX NDR

## **Session Dates**

On request. Please [Contact Us](#)

## **Additional Information**

This training is also available as onsite training. Please contact us to find out more.