



Enterprise Computing Solutions - Education Services

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VMware NSX for Intrinsic Security [V4.x]

CODE:	DURÉE:	PRIX H.T.:
VMW_NSXIS4	40 Hours (5 Jours)	€4,400.00

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.

Objectifs

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

Prérequis

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

Dates de session

Sur demande. [Merci de nous contacter](#)

Informations Complémentaires

[Cette formation est également disponible sous forme de formation sur site. Veuillez nous contacter pour en savoir plus.](#)