ARROW

Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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VMware NSX for Intrinsic Security [V4.x]

CODE:	LENGTH:	PRICE:
VMW_NSXIS4	40 Hours (5 days)	£3,230.00

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: Good understanding of TCP/IP services and protocols
 Knowledge of and working experience with VMware vSphere® environments

Knowledge and working experience of network security, including:

* L2 through L7 firewalling
* Intrusion detection and prevention systems
* Malware prevention systems

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 GatewayFirewall 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 northsouth 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

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
10 Jun 2024	Virtual Classroom	BST	English	Instructor Led Online		£3,230.00
09 Sep 2024	Virtual Classroom	BST	English	Instructor Led Online		£3,230.00
02 Dec 2024	Virtual Classroom	GMT	English	Instructor Led Online		£3,230.00

Additional Information

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