vmware LEARNING

VMware NSX-T Data Center for Intrinsic Security

Course Overview

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-T™ Data Center for intrinsic security. In this course, you are introduced to all the security features in NSX-T Data Center, including distributed and gateway firewall, Intrusion Detection and Prevention (IDS/IPS), VMware NSX® Intelligence™, and Network Detection and Response (NDR).

In addition, you are presented with common configuration issues and given a methodology to resolve them.

Course Objectives

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

- Define information security related concepts
- Explain different types of firewalls and their use cases
- Describe the operation of Intrusion Detection and Intrusion Prevention Systems
- Describe the VMware intrinsic security portfolio
- Implement Zero-Trust Security using VMware NSX® segmentation
- Configure User and Role Management
- Configure and troubleshoot Distributed Firewall, Identity Firewall, and time-based policies
- Configure and troubleshoot Gateway Security
- Use VMware vRealize® Log Insight™, VMware vRealize® Network Insight™, and NSX Intelligence to operate NSX firewalls and generate security recommendations
- Explain security best practices related to grouping, tagging, and rule configuration
- Describe North-South and East-West service insertion
- Describe Endpoint Protection
- Configure and troubleshoot Distributed IDS/IPS
- Describe the capabilities of Network Detection and Response

Target 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-L7 Firewalling
  - Intrusion Detection and Prevention Systems
- Knowledge and working experience of VMware vSphere® environments and KVM-based environments

The VMware Certified Technical Associate - Network Virtualization is recommended.

Course Delivery Options

- Classroom
- Live Online
- Private Training

Product Alignment

- VMware NSX-T Data Center 3.1

Course Modules

1 Course Introduction
- Introductions and course logistics
- Course objectives

2 Security Basics
- Define information security related concepts
- Explain different types of firewalls and their use cases
- Describe the operation of Intrusion Detection and Intrusion Prevention Systems

3 VMware Intrinsic Security
- Define VMware intrinsic security strategy
- Describe VMware intrinsic security portfolio
- Explain how NSX-T Data Center aligns in 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-T Data Center and VMware Identity Manager™
- Integrate NSX-T Data Center and LDAP
- Describe the native users and roles in NSX-T Data Center
- Create and assign custom user roles

6 Distributed Firewall
- Configure Distributed Firewall rules and policies
- Describe the Distributed Firewall architecture
- Troubleshoot common problems related to Distributed Firewall
- Configure time-based policies
- Configure Identity Firewall rules

7 Gateway Security
- Configure gateway firewall rules and policies
- Describe the architecture of the gateway firewall
- Identify and troubleshoot common gateway firewall issues
- Configure URL analysis and identify common configuration issues

8 Operating Internal Firewalls
- Use vRealize Log Insight, vRealize Network Insight, and NSX Intelligence to operate NSX firewalls
- Explain NSX Intelligence visualization and recommendation capabilities
- 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 Advanced Threat 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
- Describe the capabilities of Network Detection and Response

Contact

If you have questions or need help registering for this course, click here.

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