Enterprise Computing Solutions - Education Services

TRAINING OFFERING

You can reach us at:

Arrow ECS B.V., Kromme Schaft 5, 3991 AR Houten, The Netherlands

Email: education.ecs.nl@arrow.com
Phone: +31 20 582 6109

VMware NSX: Troubleshooting and Operations [V4.x]

CODE:	LENGTH:	PRICE:
VMW_NSXTO4	40 Hours (5 days)	€3,850.00

Description

This five-day, hands-on training course provides the advanced knowledge, skills, and tools to achieve competency in operating and troubleshooting the VMware NSX infrastructure. This course introduces you to workflows of various networking and security constructs along with several operational and troubleshooting tools that help you manage and troubleshoot your VMware NSX environment. In addition, various types of technical problems are presented to you, which you will identify, analyze, and solve through a systematic process

Objectives

By the end of the course, you should be able to meet the following objectives:
• Use the native tools available in NSX to identify and troubleshoot the problems.
• Use VMware Aria Operations for Logs and VMware Aria Operations for Networks to identify and troubleshoot problems related to the NSX environment
• Explain the NSX infrastructure components and the communications between them
• Identify, analyze, and troubleshoot problems related to the management, control, and data planes in NSX
• Identify, analyze, and troubleshoot problems related to infrastructure preparation and VMware NSX Edge deployments
• Identify, analyze, and troubleshoot problems related to logical switching and logical routing
• Identify, analyze, and troubleshoot network security problems related to the Distributed firewalls, Gateway firewalls, and Distributed IDS/IPS.
• Identify, analyze, and troubleshoot problems related to VPN and VMware NSX Advanced Load Balancer
• Identify the components and packet flows involved in the NSX datapath and troubleshoot related problems

Audience

• Experienced system administrators and network administrators
• Network and security professionals who work with enterprise networks

Prerequisites

Before taking this course, you must complete the following course:
• VMware NSX: Install, Configure, Manage [V4.0]

You should also have understanding or knowledge of these technologies:
• Good understanding of TCP/IP services and protocols
• Knowledge and working experience of computer networking and security, including:
o Switching and routing technologies (L2 andL3)
o Network and application delivery services (L4 through L7)
o Firewalling (L4 through L7)
o VMware vSphere environments
The VMware Certified Professional – Network Virtualization certification is recommended.

Programme

Course Modules

1 Course Introduction
• Introduction and course logistics
• Course objectives
2 NSX Operations and Tools

• Explain and validate the native troubleshooting tools for NSX
• Configure syslog, IPFIX, and log collections for the NSX environment
• Integrate NSX with VMware Aria Operations for Logs and VMware Aria Operations for Networks
• Validate and review the API methods available to configure the NSX environment
3 Troubleshooting the NSX Management Cluster
• Describe the NSX Management cluster architecture, components, and communication channels
• Identify the workflows involved in configuring the NSX Management cluster
• Validate and troubleshoot the NSX Management cluster formation
4 Troubleshooting Infrastructure Preparation
• Describe the data plane architecture, components, and communication channels
• Explain and troubleshoot VMware ESXi transport node preparation issues
• Explain and troubleshoot NSX Edge deploymentissues
5 Troubleshooting Logical Switching
• Describe the architecture of logical switching
• List the modules and processes involved in configuring logical switching
• Explain the importance of VDS in transport nodes
• Review the architecture and workflows involved in attaching workloads to segments
• Identify and troubleshoot common logical switching issues
6 Troubleshooting Logical Routing
• Review the architecture of logical routing
• Explain the workflows involved in the configuration of Tier-0 and Tier-1 gateways
• Explain the high availability modes and validate logical router placements
• Identify and troubleshoot common logical routing issues using both BGP and OSPF
7 Troubleshooting Security
• Review the architecture of the Distributed Firewall
• Explain the workflows involved in configuring the Distributed Firewall
• Review the architecture of the Gateway Firewall
• Explain the workflows involved in configuring the Gateway Firewall
• Identify and troubleshoot common Distributed firewall and Gateway Firewall issues
• Review the architecture and workflows involved in configuring Distributed IDS/IPS
• Identify and troubleshoot common Distributed IDS/IPS problems.
8 Troubleshooting the NSX Advanced Load Balancer and VPN Services
• Review the NSX Advanced Load Balancer architecture and components
• Identify and troubleshoot common NSX Advanced Load Balancer issues
• Review the IPsec and L2 VPN architecture and components
• Identify and troubleshoot common IPsec and L2 VPN issues
9 Datapath Walkthrough
• Verify and validate the path of the packet on the NSX datapath
• Identify and perform packet captures at various points in the datapath
• Use NSX CLI and native hypervisor commands to retrieve configurations involved in the NSX datapath

Further Information

Product Alignment
• VMware NSX 4.0.0.1
• VMware NSX 4.0.1

Session Dates

On request. Please contact us

Additional Information

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