

## VMware NSX: Troubleshooting and Operations

Cursusduur: 5 Dagen    Cursuscode: VMNSXTO    Version: 4.x    Trainingsmethode: Class Connect

### Beschrijving:

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.

#### Product Alignment

- VMware NSX 4.0.0.1
- VMware NSX 4.0.1.1

#### Class Connect™

Met Class Connect worden klaslokalen virtueel met elkaar verbonden. Class Connect biedt u de mogelijkheid om een training klassikaal op afstand bij te wonen in een Global Knowledge locatie bij u in de buurt. Een hoge kwaliteitsverbinding (HD audio en video) tussen de klaslokalen garandeert de cursisten een maximale interactie met de docent en met elkaar. Samen met uw medecursisten ziet u de docent en de andere cursisten op een groot scherm alsof u er zelf bijzit.

### Doelgroep:

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

### Doelstelling:

- **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

### Vereiste kennis en vaardigheden:

#### You should 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:
  - Switching and routing technologies (L2 and L3)
  - Network and application delivery services (L4 through L7)
  - Firewalling (L4 through L7)
- VMware vSphere environments The VMware Certified Professional – Network Virtualization certification is

recommended.

■ VMNSXICM - VMware NSX: Install, Configure, Manage

## Cursusinhoud:

### 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 deployment issues

### 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 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

## Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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