# VMWA-41 - VMWARE NSX: TROUBLESHOOTING AND OPERATIONS [V4.X]

Categoria: **VMware**

## INFORMAZIONI SUL CORSO

| Durata: | Categoria: | Qualifica Istruttore: | Dedicato a: | Produttore: |
|---|---|---|---|---|
| 5 Giorni | VMware | VMware Certified Instructor | Professionista IT | VMware |

## OBIETTIVI

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

## PREREQUISITI

Before taking this course, you must complete the following course:

- VMware NSX: Install, Configure, Manage

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:
  - Switching and routing technologies
  - Network and application delivery services
  - Firewalling
  - VMware vSphere environments

The VMware Certified Professional – Network Virtualization certification is recommended.

## CONTENUTI

1 Course Introduction

- -Introductions 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

## INFO

**Esame:** 2V0-41.24 - VMware NSX 4.x Professional --- VMware Certified Professional - Network Virtualization (VCP-NV)
**Materiale didattico:** Materiale didattico ufficiale VMware in formato digitale
**Costo materiale didattico:** incluso nel prezzo del corso a Calendario
**Natura del corso:** Operativo (previsti lab su PC)