

# VM-NSX (VMWARE NSX: INSTALL, CONFIGURE, MANAGE)

## 6.x

### Objetivo

This comprehensive, fast-paced training course focuses on installing, configuring, and managing VMware NSX™. This course covers NSX as a part of the software-defined data center platform, implementation use cases along with features of NSX, and functionality operating at Layer 2 through Layer 7 of the OSI model. Lecture and hands-on lab activities support the student's understanding of VMware NSX features, functionality, and ongoing management and control. By the end of the course, you should be able to meet the following objectives:

- Describe the evolution of the software-defined data center
- Describe how NSX is the next step in the evolution of the software-defined data center
- Describe data center prerequisites for NSX deployment
- Configure and deploy NSX components for management and control
- Describe basic NSX layer 2 networking
- Configure, deploy, and use logical switch networks
- Configure and deploy NSX distributed router appliances to establish East-West connectivity
- Configure and deploy VMware NSX Edge™ services gateway appliances to establish North-South connectivity
- Configure and use all main features of the NSX Edge services gateway
- Configure NSX Edge firewall rules to restrict network traffic
- Configure NSX distributed firewall rules to restrict network traffic
- Use role-based access to control user account privileges
- Use activity monitoring to determine whether a security policy is effective
- Configure service composer policies

### Público Alvo

Experienced system administrators that specialize in networking

### Pré-Requisitos

- System administration experience on Microsoft Windows or Linux operating systems
- Understanding of concepts presented in the VMware Data Center Virtualization Fundamentals course for VCA-DCV certification

### Carga Horária

40 horas (5 dias).

### Conteúdo Programático

- 1 Course Introduction
  - Introductions and course logistics
  - Course objectives
- 2 VMware NSX Components for Management and Control
  - Introduction to VMware vSphere® Virtualization
  - Evolution of the software-defined data center

- Introduction to NSX • VMware NSX Manager™
- NSX Controller cluster

### 3 Logical Switch Networks

- Ethernet fundamentals
- VMware vSphere® Distributed Switch™ overview
- Switch link aggregation
- VLAN
- VXLAN: Logical Switch Networks
- VMware NSX Controller™ replication

### 4 Routing with VMware NSX Edge Appliances

- Routing protocols primer
- NSX logical router
- NSX Edge services gateway

### 5 Features of the VMware NSX Edge Services Gateway

- Network address translation
- Load balancing
- High availability
- Virtual private networking - Layer 2 VPN - IPsec VPN - SSL VPN-Plus
- VLAN-to-VXLAN bridging

### 6 VMware NSX Security

- NSX Edge firewall
- NSX distributed firewall
- Role-based access control
- NSX data endpoint
- Flow Monitoring
- Service Composer