5 Days

VMware NSX: Install, Configure, Manage [v6.4]

This 5-days intensive course helps you to learn about using the NSX logical switching so as to virtualize the environment, route virtual environments dynamically, gateway services, the configuration of firewall, secure, and optimize the NSX environment.

On completion of this course, you will be able to

- Describe, configure, and deploy NSX components

- Describe logical switch networks, NSX layer 2 networking

- Configure and deploy:

    ○ NSX distributed router appliances

    ○ VMware NSX® Edge™ services gateway appliances

    ○ NSX L2 bridging

    ○ NSX Edge services gateway

    ○ NSX Edge firewall, distributed firewalls, and identity-aware firewall

    ○ Service Composer policies

    ○ Cross-vCenter NSX feature

Further, this certification prepares you for

- VMware Certified Professional 6 – Network Virtualization (VCP6-NV)

Course Details

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Course Outline

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1.Introduction:

- Introduction, Course logistics, and objectives

2. Introduction to vSphere Networking

- VMware vSphere® networking components, standard & distributed switches

3. Introduction to NSX

- **Describe the identify NSX benefits, use cases**

4. NSX Architecture

- NSX architecture, cloud management, control, NSX data planes,
- VMware NSX® Controller™ cluster, NSX Controller workload distribution

5. NSX Infrastructure Preparation

- NSX installation, deployment plan, NSX Controller cluster and deployment
- Load distribution and high availability
- Host preparation workflow

6. NSX Logical Switch Networks

- Transport zones, VXLANs and VTEPs
- Virtual networking networking
- Configure vSphere distributed switches
- Logical switching components
- VLANs for VXLAN

7. NSX Logical Routing

- Routing concepts
- NSX distributed logical router
- NSX Edge services gateway topologies
- Logical router deployment model
- Interaction of control plane and management

8. Advanced NSX Logical Routing

- Connect routers with networks
- Route redistribution methods
- LE and GE configurations
- Routing event notification enhancements
- ECMP routing

9. NSX L2 Bridging

- Use cases
- Packet Flows
- Software and hardware L2 bridging

10. NSX Edge Services

- NSX Edge Services
- NAT64, DHCP, and DNS Services
- One-armed and inline load-balancing architectures
- Load balancing function
- NAT works

11. NSX Edge VPN Services

- NSX Edge VPN services
- Use Cases
- SSL VPN-Plus services
- Configuration of
  - L2 VPN
  - NSX Edge instance
  - NSX Edge SSL VPN-Plus server settings

12. NSX Security Services

- Policy enforcement, Context awareness
- Custom network and security containers
- NSX Edge firewall architecture

- DHCP and ARP Snooping

13. NSX Advanced Security Services

- NSX SpoofGuard
- Dynamic security service chains
- Composer policies, groups, and tags
- Identity Firewall architecture
- Application Rule Manager and Monitoring Session

14. NSX Introspection Services

- Introspection Services Types
- Installation and configuration of Guest/Network Introspection
- Alarms, Events, and audit messages

15. Cross-vCenter NSX

- **Features and Use Cases**
- **VMware NSX® Manager™ roles**
- **Universal logical networks deployment**
- **Design considerations**
- **NSX Controller cluster placement**

Who Should Attend

- System Administrator
- Network Administrator

Pre Requisite

- **Basic comprehensive knowledge of**
  - TCP/IP Services
  - Firewalls and firewall rule sets
  - Switching and Routing

- **Basic concepts presented in the course:**
  - VMware Data Center Virtualization Fundamentals
  - VMware Introduction to Network Virtualization with NSX

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