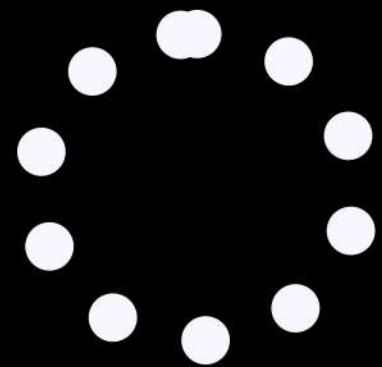


VMware NSX 4.X Advanced Design



Online Course



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VMware NSX 4.X Advanced Design

Course Modules

IT Architectures, Technologies, Standards

1. VMware Solution

- Describe and explain NSX architecture and components
- Recognize the main elements in the NSX architecture
- Describe the NSX management cluster and the management plane
- The functions and components of mngmnt, control, & data planes
- Describe the NSX Manager sizing options
- RJustification & implication of NSX mangr cluster design decisions
- Identify the NSX management cluster design options
- Difference between enterprise and service provider NSX designs

2. Plan and Design the VMware Solution

- Describe and explain design concepts
- Identify design terms
- Describe framework and project methodology
- Describe VMware Cloud Foundation designs
- Identify customers' requirements, assumptions, constraints, & risks
- Explain the conceptual design
- Explain the logical design
- Explain the physical design



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- Describe and explain NSX Edge design
 - Explain the leading practices for Edge design
 - Describe the NSX Edge VM reference designs
 - Describe the bare-metal NSX Edge reference designs
 - Explain the leading practices for edge cluster design
 - Explain the effect of stateful services placement
 - Explain the growth patterns for edge clusters
 - Identify design considerations when using L2 bridging services
- Describe and explain NSX logical switching design
 - Describe concepts and terminology in logical switching
 - Identify segment and transport zone design considerations
 - Identify virtual switch design considerations
 - Uplink profile, teaming policy, & transport node profile design considerations.
 - Identify Geneve tunnelling design considerations
 - Identify BUM replication mode design considerations
- Describe and explain NSX logical routing design
 - Explain the function and features of logical routing
 - Describe NSX single-tier and multitier routing architectures
 - Identify guidelines when selecting a routing topology
 - Describe the BGP and OSPF routing protocol configuration options
 - Gateway high availability modes of operation & failure detection mechanisms
 - Multitier architectures provide control over stateful service location
 - Identify VRF Lite requirements and considerations
 - Explain EVPN design considerations in NSX



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- Describe and explain NSX security design
 - Identify different security features available in NSX
 - Describe the advantages of an NSX Distributed Firewall
 - NSX Gtwy Firewall as a perimtr firewall & as an inter-tenant firewall
 - Determine a security policy methodology
 - Recognize the NSX security leading practices
- Describe and explain NSX network services design
 - Stateful srvcavailable in diff edge cluster high availability modes
 - Describe failover detection mechanisms
 - Design consideratns fr intgrtg VMware NSX Advncd Load Balancer
 - Describe stateful and stateless NSX NAT
 - Identify benefits of NSX DHCP and NSX DNS
 - Describe IPSec VPN and L2 VPN
- Describe and explain physical infrastructure design
 - Identify the components of a switch fabric design
 - Assess Layer 2 and Layer 3 switch fabric design implications
 - Review guidelines when designing top-of-rack switches
 - Review options for connecting transport hosts to the switch fabric
 - Describe typical designs for VMware ESXi compute hypervisors
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 - Diff dedicated and collapsed cluster approaches to SDDC design



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- Describe and explain NSX multi-location design
 - Explain scale considerations in an NSX multisite design
 - Describe the main components of the NSX Federation architecture
 - Describe the stretched networking capability in Federation
 - Describe stretched security use cases in Federation
 - Compare Federation disaster recovery designs
- Describe & explain NSX optimization & DPU based acceleration design
 - Describe Geneve Offload
 - Describe the benefits of Receive Side Scaling and Geneve Rx Filters
 - Explain the benefits of SSL Offload
 - Effect of Multi-TEP, MTU size, and NIC speed on throughput
 - Explain the available Enhanced Datapath modes and use cases
 - Key performance factors for compute nodes and NSX Edge nodes
 - Explain DPU-Based Acceleration

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