

VMware

Exam Questions 3V0-42.20

Advanced Design VMware NSX-T Data Center



NEW QUESTION 1

A Solutions Architect is assisting a service provider with designing an NSX-T Data Center solution for these environments: Virtual Data Center to Virtual Data Center connectivity Tenant workload on-boarding to Virtual Data Centers. These requirements must be met:

- > scalability across 5 data centers
- > all sites have a latency of 180ms
- > MTU between sites is 1800
- > bandwidth is 100Mbps between sites
- > multi-tenancy

Which two selections should the Solutions Architect propose to the service provider? (Choose two.)

- A. Configure Remote TEPs for stretching network services between Virtual Data Centers.
- B. Utilize SSL VPN for workloads on-boarding from on-premises to Virtual Data Centers.
- C. Configure IPsec VPN for Tenant T0 gateways for Virtual Data Centers connectivity
- D. Configure IPsec VPN for Tenant T1 gateways for Virtual Data Centers connectivity.
- E. Utilize L2 VPN for workloads on-boarding from on-premises to Virtual Data Centers.

Answer: DE

NEW QUESTION 2

Which selection must be taken into consideration when creating a Logical Design for a planned migration? (Choose the best answer.)

- A. An N-VDS can only attach to a single Overlay transport zone.
- B. An N-VDS can only attach to a single VLAN transport zone.
- C. An N-VDS can attach to both an Overlay and a VLAN transport zone to a N-VDS having different name/s.
- D. An N-VDS must be disabled before attaching both Overlay and VLAN transport zones.

Answer: B

NEW QUESTION 3

Which three choices are part of a Design Approach when discussing design alternatives and their effects? (Choose three.)

- A. backup
- B. budget
- C. cost
- D. performance
- E. knowledge
- F. security

Answer: DEF

NEW QUESTION 4

An architect is designing a solution for containerization. The solution will include high availability and security using NSX-T Data Center. The architect plans to provide a basic required components list in the Logical Design.

Which solution should the architect recommend? (Choose the best answer.)

- A. 3 NSX Managers, 3 virtual NSX Edges, two Tier-0 gateways in Active/Standby, BGP configuration
- B. 2 NSX Managers, 2 virtual NSX Edges, one Tier-0 gateway, BGP configuration and a static route
- C. 3 NSX Managers, 3 virtual NSX Edges, one Tier-0 gateway and a static route and OSPF
- D. 1 NSX Manager, 2 virtual NSX Edges, two Tier-0 gateways in Active/Active, BGP configuration

Answer: A

NEW QUESTION 5

Which NSX-T feature is used to allocate the network bandwidth to business-critical applications and to resolve situations where several types of traffic compete for common resources? (Choose the best answer.)

- A. Network I/O Control Profiles
- B. LLDP Profile
- C. LAG Uplink Profile
- D. Transport Node Profiles

Answer: A

NEW QUESTION 6

An architect is helping an organization with the Physical Design of an NSX-T Data Center solution. This information was gathered during a workshop:

- > The company will use a Leaf and Spine physical network architecture with Layer 3 gateways for top of rack switches.
- > The company is planning to deploy 120 ESX hosts across 10 racks.
- > There will be a total of a 12 clusters where each cluster has one host per rack.

What should the architect recommend to allow applications to run on any host in the cluster? (Choose the best answer.)

- A. Deploy all application networks on NSX segments.
- B. Deploy an L2 VPN to allow the networks to extend to each host.
- C. Deploy a Tier-0 gateway per Rack and configure BGP between racks.
- D. Deploy a Tier-1 gateway per Rack and configure BGP between racks.

Answer: D

NEW QUESTION 7

A customer wants to use ECMP to provide additional throughput and availability for their critical business applications. Some applications require load balancing for scale and availability.

Which two Edge design choices can an architect present to the customer? (Choose two.)

- A. Create a Tier-0 gateway in Active/Standby mode and a Tier-1 gateway in Active/Standby mode.
- B. Configure ECMP and Load Balancing on the Tier-0 gateway.
- C. Create a Tier-0 gateway in Active/Active mode and a Tier-1 gateway in Active/Standby mode.
- D. Create a Tier-0 gateway in Active/Standby mode.
- E. Configure ECMP on the Tier-0 gateway and Load Balancing on the Tier-1 gateway.

Answer: BD

NEW QUESTION 8

An architect is helping an organization with the Physical Design of an NSX-T Data Center solution. This information was gathered during a workshop:

- > Migrating existing data center to KVM hosts.
- > Redundancy and high availability are required.
- > No component can be a single point of failure.

Which selection should the architect recommend? (Choose the best answer.)

- A. Linux Bridge redundancy with Active/Active Mode and multiple pNICs with necessary binding
- B. Linux Bridge redundancy with Active/Active Mode and single pNIC with static binding
- C. vSS/vDS in Active/Standby Mode with necessary binding
- D. vSS/vDS in Active/Active Mode with necessary pNICs and required binding modes

Answer: C

NEW QUESTION 9

An architect is helping an organization with the Logical Design of an NSX-T Data Center solution. This information was gathered during the Assessment Phase:

- > Maximum performance and availability is required between the physical and virtual network.
- > Load Balancing service is required for back-end web servers.
- > NAT is required.

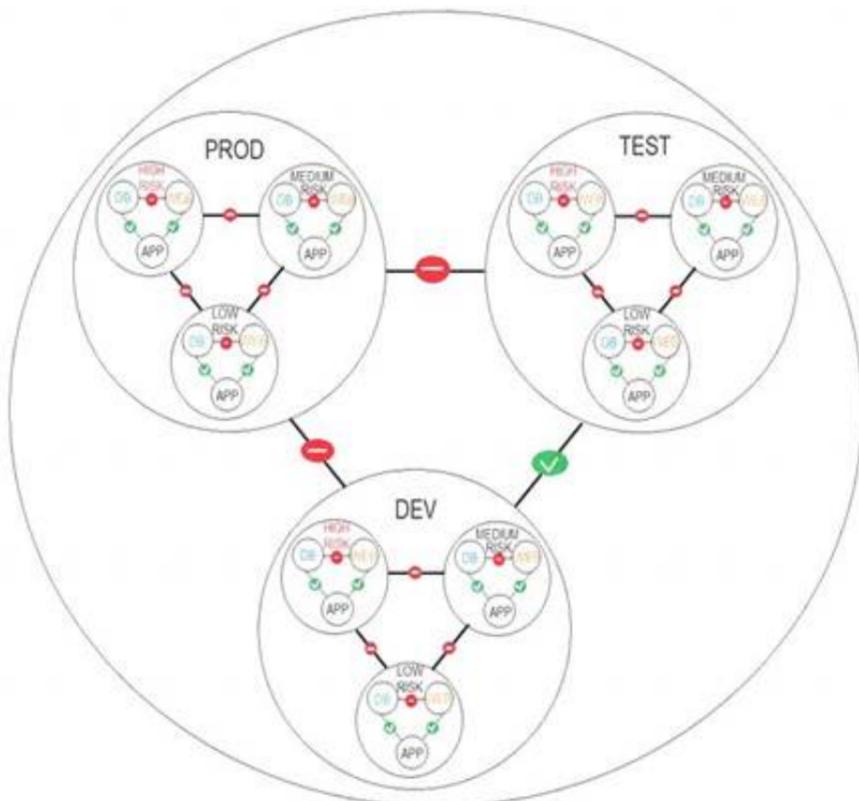
Which selection should the architect include in their design? (Choose the best answer.)

- A. Deploy a Tier-1 gateway and connect it to an Active/Active Tier-0 gateway with ECMP configured.
- B. Deploy an Active/Active Tier-0 gateway and configure ECMP.
- C. Deploy an Active/Standby Tier-0 gateway and configure ECMP.
- D. Create two separate VLANs to connect the Tier-0 gateway upstream traffic and configure ECMP.

Answer: C

NEW QUESTION 10

Refer to the exhibit.



A financial company is adopting micro-services with the intent of simplifying network security. An NSX-T architect is proposing a NSX-T Data Center micro-segmentation logical design. The architect has created a diagram to share with the customer.

How many security levels will be implemented according to this Logical Design? (Choose the best answer.)

- A. 5 levels
- B. 3 levels
- C. 9 levels
- D. 4 levels

Answer: A

NEW QUESTION 10

An architect is helping an organization with the Logical Design of a Layer 2 bridging solution. This information was gathered during the Assessment Phase:

- > Workloads are running on ESXi hosts.
- > Workloads are running on KVM hosts.
- > Workloads on hypervisors should use bridging services.
- > VLAN 50 is used for Tier-0 uplink connectivity.

Which selection should the architect include in their design? (Choose the best answer.)

- A. Create an NSX Edge Bridge Cluster and configure the bridging profile with VLAN 60.
- B. Create an NSX Edge Bridge Cluster and configure the bridging profile with VLAN 50.
- C. Create an ESXi Bridge Cluster and configure the bridging profile with VLAN 50.
- D. Create an ESXi Bridge Cluster and configure the bridging profile with VLAN 60.

Answer: B

NEW QUESTION 11

A Solutions Architect is designing an environment with 1,200 services being offered through the NSX-T Data Center Load Balancer.

Which three selections are necessary to meet the minimum requirements to support the solution? (Choose three.)

- A. Extra Large Load Balancer
- B. Tier 1 Gateway
- C. Tier 0 Gateway
- D. Large Edge Node
- E. Extra Large Edge Node
- F. Large Load Balancer

Answer: BDF

NEW QUESTION 14

A Solution Architect will be deploying an Ethernet Virtual Private Network (EVPN) in their NSX-T Data Center environment.

What two selections must be prepared for the EVPN deployment? (Choose two.)

- A. deployed Tier-0 gateway
- B. deployed Load Balancer
- C. deployed Tier-1 gateway
- D. remote gateway with support for IGP and VLAN priority
- E. remote gateway with support for MP-BGP and VXLAN

Answer: BE

NEW QUESTION 15

An architect is helping an organization with the Logical Design of an NSX-T Data Center solution. This information was gathered during the Assessment Phase:

- > There isn't much budget available for a new off shore site.
- > The new site is decentralized and no communication with the main data center is required.
- > The design will need to cater for availability, upgrades, and failure scenarios.
- > N+1 must be maintained at all times.

Which three selections should the architect recommend in their design? (Choose three.)

- A. Separate the hosts physical NICs for VSS and N-VDS.
- B. Make all pNICs part of N-VDS and VMKs will be migrated.
- C. Collapse the Management/Edge/Compute cluster.
- D. Install a minimum 4 ESXi hosts in the site.
- E. A Shared Edge/Management cluster and one for Compute.
- F. Install a minimum of 3 ESXi hosts in the site.

Answer: ABC

NEW QUESTION 16

Which two protocols are typically used for multicast in a NSX-T Data Center environment? (Choose two.)

- A. PIM Full Form
- B. PIM Dense Mode
- C. IGMPv2
- D. PIM Sparse mode
- E. IGMPv3

Answer: CD

NEW QUESTION 21

Which two benefits can be achieved using in-band management of an NSX Bare Metal Edge Node? (Choose two.)

- A. Reduces storage requirements.
- B. Reduces cost.
- C. Preserves packet locality.

- D. Reduces egress data.
- E. Preserves switchports.

Answer: BD

NEW QUESTION 26

An architect is helping an organization with the Logical Design of an NSX-T Data Center solution. This information was gathered during the assessment:

> There must be a performance based SLA for East to West traffic.
 Which two key performance features should the architect recommend? (Choose two.)

- A. Configure N-VDS enhanced Data Path
- B. Install advanced Edge pNIC Features
- C. Setup RSS to leverage multiple cores
- D. Leverage DPDK drivers
- E. Enable GENEVE Offload

Answer: CE

NEW QUESTION 29

Which two resources can be used by an NSX architect during the Assessment Phase? (Choose two.)

- A. vRealize Network Insight
- B. VMware Validated Design
- C. VMware customer references
- D. key stakeholder interviews
- E. application licensing

Answer: AE

NEW QUESTION 31

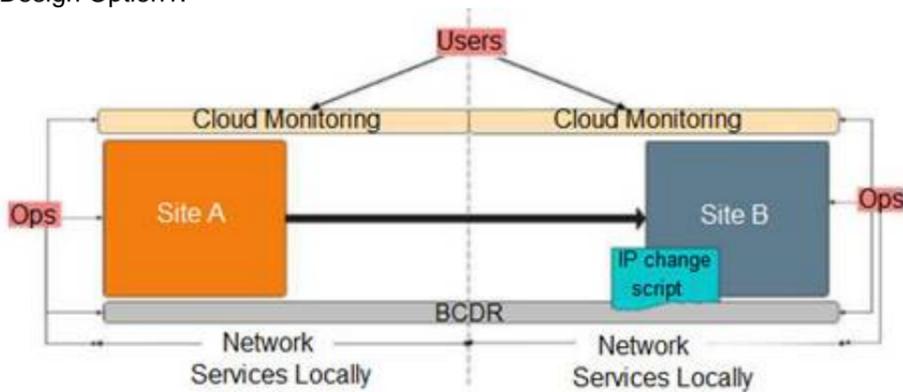
Which two VMware recommendations should an architect follow when configuring top of rack (ToR) switches in an NSX-T Data Center environment? (Choose two.)

- A. Use only IPv4 addressing in all deployments.
- B. Configure redundant physical switches to enhance availability.
- C. Configure switch ports that connect to ESXi host manually as trunk ports.
- D. Configure switch ports with a Dynamic Trunking Protocol.
- E. Modify the Spanning Tree Protocol to increase the time to transition to the forwarding state.

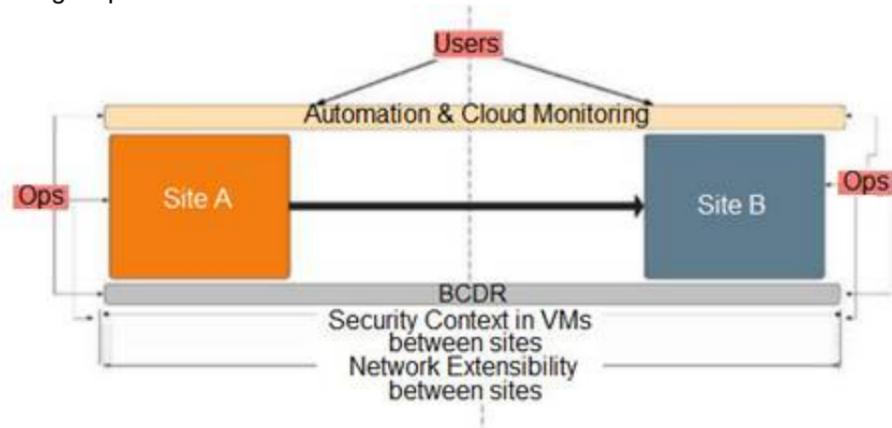
Answer: DE

NEW QUESTION 33

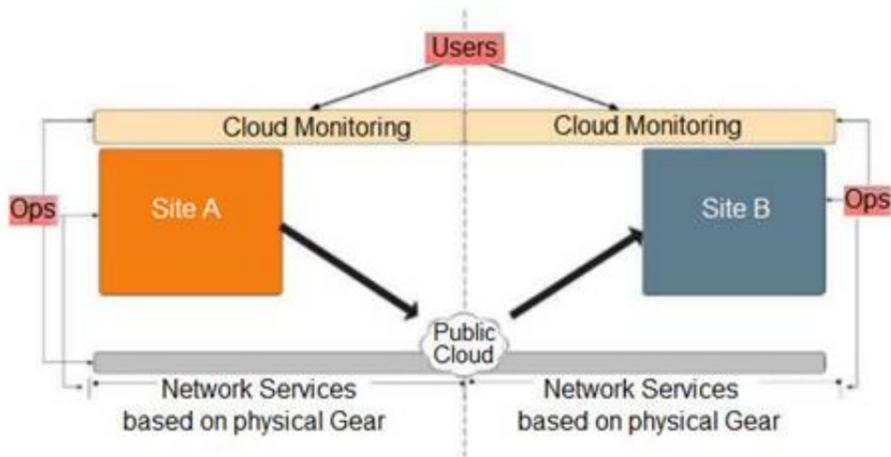
Refer to the exhibits.
 Design Option1:



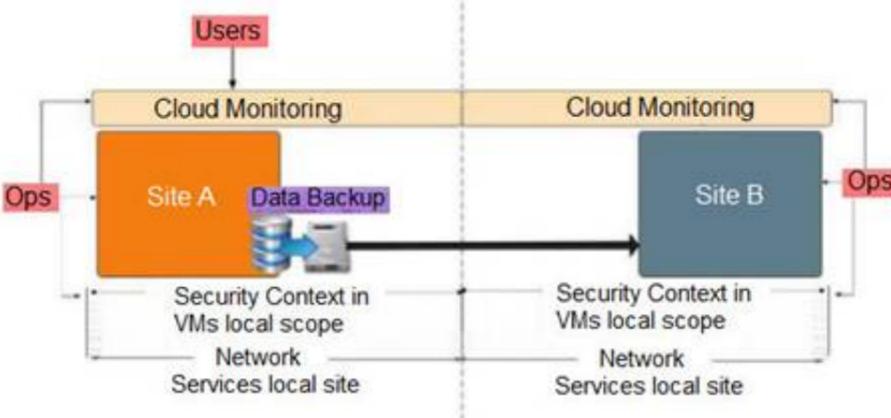
Design Option 2:



Design Option 3:



Design Option 4:



An architect is helping an organization with the Conceptual Design of an NSX-T Data Center solution. The conceptual design includes these requirements, assumptions, constraints, and risks:

- > Critical applications must run across sites without changing IP address.
- > RTO/RPO must be reduced for recovery of applications on secondary site.
- > IT Teams require automation tools for configuration.

Which Conceptual Design would the architect recommend to the customer? (Choose the best answer.)

- A. Design Option 4
- B. Design Option 2
- C. Design Option 1
- D. Design Option 3

Answer: C

NEW QUESTION 37

An architect is helping an organization with the Conceptual Design of an NSX-T Data Center solution. This information was gathered by the architect during the Discover Task of the Engagement Lifecycle:

- > There are applications which use IPv6 addressing.
- > Network administrators are not familiar with NSX-T Data Center solutions.
- > Hosts can only be configured with two physical NICs.
- > There is an existing management cluster to deploy the NSX-T components.
- > Dynamic routing should be configured between the physical and virtual network.
- > There is a storage array available to deploy NSX-T components.

Which risk was documented by the architect? (Choose the best answer.)

- A. Network administrators are not familiar with NSX-T Data Center solutions.
- B. Dynamic routing should be configured between the physical and virtual network.
- C. There are applications which use IPv6 addressing.
- D. There is a storage array available to deploy NSX-T components.

Answer: B

NEW QUESTION 41

An architect is helping an organization with the Logical Design of an NSX-T Data Center solution. This information was gathered during the Assessment Phase:

- > Data between two networks connected over a public network needs to be encrypted.
- > Certificate authentication is required.
- > Dynamic route learning is preferred.

Which selection should the architect include in their design? (Choose the best answer.)

- A. Deploy a Tier-0 gateway in Active/Standby mod
- B. Configure policy-based IPSec VPN with SHA512 with RSA as the hash algorithm.
- C. Deploy a Tier-0 gateway in Active/Active mod
- D. Configure route-based IPSec VPN with SHA512 with RSA as the hash algorithm.
- E. Deploy a Tier-0 gateway in Active/Standby mod
- F. Configure route-based IPSec VPN with SHA512 with RSA as the hash algorithm.
- G. Deploy a Tier-0 gateway in Active/Active mod
- H. Configure policy-based IPSec VPN with SHA512 with RSA as the hash algorithm.

Answer: C

NEW QUESTION 43

An architect is helping an organization with the Conceptual Design of an NSX-T Data Center solution. This information was gathered by the architect during the Discover Task of the Engagement Lifecycle:

- > There are applications which use IPv6 addressing.
- > Network administrators are not familiar with NSX-T Data Center solutions.
- > Hosts can only be configured with two physical NICs.
- > There is an existing management cluster to deploy the NSX-T components.
- > Dynamic routing should be configured between the physical and virtual network.
- > There is a storage array available to deploy NSX-T components.

Which two requirements were documented by the architect? (Choose two.)

- A. There are applications which use IPv6 addressing.
- B. Dynamic routing should be configured between the physical and virtual network.
- C. Hosts can only be configured with two physical NICs.
- D. The storage array has enough capacity to deploy NSX components.
- E. Network administrators are not familiar with NSX-T Data Center solutions.

Answer: BD

NEW QUESTION 48

What selection is the key design benefit provided by a dedicated Edge Cluster VM or Bare Metal? (Choose the best answer.)

- A. reduced administrative overhead
- B. predictable network performance
- C. multiple Tier-0 gateways per Edge Node Cluster
- D. support for Edge Node Clusters with more than 10 Edge Nodes

Answer: B

NEW QUESTION 49

An architect is helping an organization with the Physical Design of an NSX-T Data Center solution. This information was gathered during a workshop:

- > Current hypervisor of choice is KVM.
- > Cost reduction is important.

Which two selections should the architect recommend to the organization? (Choose two.)

- A. Deploy Edge VM Nodes using ISO.
- B. Deploy NSX Manager using OVF.
- C. Deploy NSX Manager using QCOW2.
- D. Deploy bare metal Edge Nodes.
- E. Deploy Edge VM Nodes on KVM.

Answer: CD

NEW QUESTION 50

Which three assessment findings are part of a Conceptual Design? (Choose three.)

- A. risks
- B. host names
- C. justifications
- D. constraints
- E. assumptions
- F. vendor model

Answer: ACD

NEW QUESTION 51

An architect is helping an organization with the Physical Design of an NSX-T Data Center solution. This information was gathered during a workshop:

- > Some workloads should be moved to a Cloud Provider.
- > Extend network's VLAN or VNI across sites on the same broadcast domain.
- > Support 1500 byte MTU between sites.

Which selection should the architect include in their design? (Choose the best answer.)

- A. Load Balancer
- B. Reflexive NAT
- C. SSL VPN
- D. L2 VPN

Answer: D

NEW QUESTION 52

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