VMware

Exam Questions 3V0-42.20

Advanced Design VMware NSX-T Data Center

NEW QUESTION 1
What is a design justification for a solution with 3 NSX Manager nodes deployed in a 4 ESXi cluster Management Cluster? (Choose the best answer.)

A. NSX Controllers are separated from NSX Managers allowing 6 ESXi servers to host them.
B. NSX Management Plane and Control Plane will be reduced to a single point of failure.
C. Compute consumption guarantees NSX Manager nodes can be run on the same ESXi host.
D. Single point of failure on Control Plane and Management Plane will be mitigated.

Answer: B

NEW QUESTION 2
An architect is helping an organization with the Conceptual Design of an NSX-T Data Center solution. Which risk is documented by an architect? (Choose the best answer.)

A. The security team has a firewall communication matrix documented.
B. The team is not trained for NSX-T but have a very strong experience with vSphere.
C. Open communication between different application tiers is not allowed.
D. Aggregate N-S throughput at any given time should be at least 10G.

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
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:
> NSX-T will span across two sites for disaster recovery.

> Public Load Balancer VIP should be accessible from a secondary site.
> Distributed Firewall Policies should be available at a secondary site.
> Routing capabilities should be maintained after failure.
> NAT capabilities are required.

Which two selections should the architect include in their design? (Choose two.)

A. Use of the same ISPs across sites.
B. Use two separate ISPs across sites.
C. Use MTU to 1550 between sites.
D. Set MTU to 1550 between sites.
E. Use IP sets or groups to configure DFW rules.

Answer: AE

NEW QUESTION 8
An NSX-T architect is working with a customer who wants to improve performance and future-proof their workloads with a multi-site architecture.
A current-state analysis captured this information:
> Latency between sites is 160ms.
> Bandwidth is 2Gbps.
> The MTU is 1600.

What two VMware design recommendations should the architect recommend to the organization to achieve future-proofing? (Choose two.)

A. MTU is recommended to be 9000.
B. MTU must be at least 1700.
C. Bandwidth must be at least 10Gbps.
D. Latency RTT is acceptable.
E. Latency must be less than 150ms.

Answer: AE

NEW QUESTION 9
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 10
An architect is helping an organization with the Physical Design of an NSX-T Data Center solution. This information was gathered during the Assessment Phase:
> There is a critical application used by the Finance Team.
> The critical application has an availability and recoverability SLA of 99.999%.
> The critical application is sensitive to network changes.

Which two selections should an architect include in their design? (Choose two.)

A. Configure Tier-0 gateway for eBGP and ECMP.
B. Configure Tier-1 gateway for eBGP and ECMP.
C. Enable BFD on Tier-0 gateway.
D. Install and configure hosts with 100Gbps physical NICs.
E. Configure multiple static routes on Tier-1 gateway.

Answer: BD

NEW QUESTION 10
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 13
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 18
An architect is helping an organization with the Physical Design of an NSX-T Data Center solution. This information was gathered during a workshop about ESXi Host networking:
≫ A total of 50 ESXi hosts to be configured as Transport Nodes.
≫ All ESXi hosts have a dedicated 2 ?? Intel 10Gbps Physical Network adapter for the Overlay Traffic. To achieve low latency, high throughput, redundancy, and performance, which two NIC teaming policies
should the architect recommend? (Choose two.)

A. Load Balance Source MAC
B. Load Balance Port ID
C. Load Balance Source
D. Load Balance Source Port ID
E. Failover Order

Answer: DE

NEW QUESTION 20
An architect is helping an organization with the Logical Design of an NSX-T Data Center solution. Which two statements should the architect consider as non-technical requirements? (Choose two.)

A. Any solution should add more value to current and future customers engagements.
B. The design should offer agility and freedom for application phases.
C. All application servers have hardcoded IP addresses.
D. Current business continuity and disaster recovery plans are based on tape technology.
E. Different vendors are used for the storage solution.

Answer: BD

NEW QUESTION 22
An architect is helping an organization with the Physical Design of an NSX-T Data Center solution. This information was gathered during a workshop:
≫ There are six hosts and hardware has already been purchased.
≫ Customer is planning a collapsed Management/Edge/Compute cluster.
≫ Each host has two 10Gb NICs connected to a pair of switches.
≫ There should be no single point of failure in any proposed design.
Which virtual switch design should the architect recommend to the organization? (Choose the best answer.)

A. Create a vSphere Distributed Switch (vDS) for Management VMkernel traffic and assign one NI
B. Also, create an NSX-T Virtual Distributed Switch (N-VDS) for overlay traffic and assign one NIC.
C. Create an NSX-T Virtual Distributed Switch (N-VDS) for Management VMkernel traffic and assign one NI
D. Also, create an NSX-T Virtual Distributed Switch (N-VDS) for overlay traffic and assign one NIC.
E. Create an NSX-T Virtual Distributed Switch (N-VDS) for Management VMKernel and overlay traffic and assign both NICs.
F. Create an NSX-T Virtual Distributed Switch (N-VDS) for Management VMkernel and overlay traffic and assign a new virtual NIC.

Answer: A

NEW QUESTION 26
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 30
Which selection is associated with the Review Task of the Engagement Lifecycle? (Choose the best answer.)

A. Gather and document requirements, assumptions, and constraints.
B. Build, deploy, implement, and test the design.
C. Measure performance against customer??s objective.
D. Create and document the logical and physical design.

Answer: C

NEW QUESTION 35
An architect is helping an organization with the Physical Design of an NSX-T Data Center solution. This information was gathered during a workshop:

≫ Any proposed solution must provide low latency.
≫ Any proposed solution must provide high throughput.
≫ Customer is running stock trading applications.

Which two selections should the architect recommend to meet high-performance workload requirements?
(Choose two.)

A. Leverage ESXi as the compute host.
B. Use LACP for all uplink profiles.
C. Leverage KVM as the compute host.
D. Enable enhanced data path mode on the N-VDS.
E. Enable latency sensitivity mode on the N-VDS.

Answer: AD

NEW QUESTION 36
An administrator is asked to improve Recovery Point Objective (RPO) and Recovery Time Objective (RTO) for Disaster Recovery (DR) in their company network. The network has a primary site and a secondary site. The ability to support outages with minimum loss of connectivity to the company??s core application is a priority.
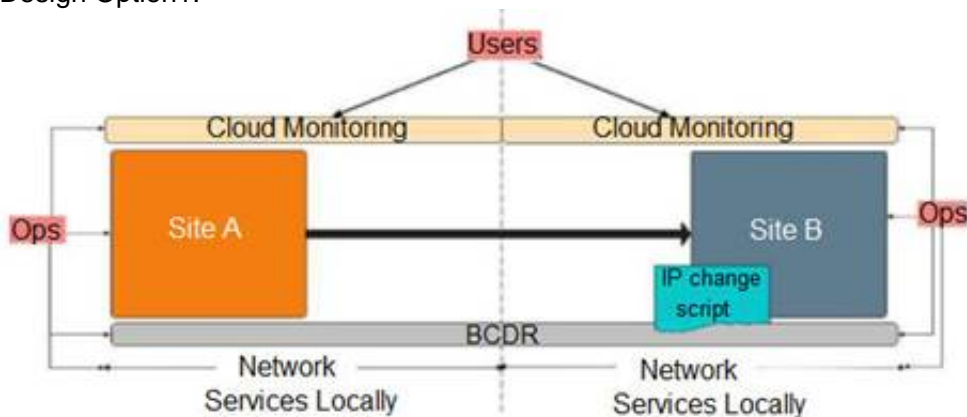Which design should the administrator recommend? (Choose the best answer.)

A. NSX-T Data Center using an Orchestrator to recover VMs across sites.
B. NSX-T Data Center using Federation and dependencies set between primary and secondary sites.
C. NSX-T Data Center using a registered third-party DR solution.
D. NSX-T Data Center using built-in standard automation DR and secondary site recovery setup.
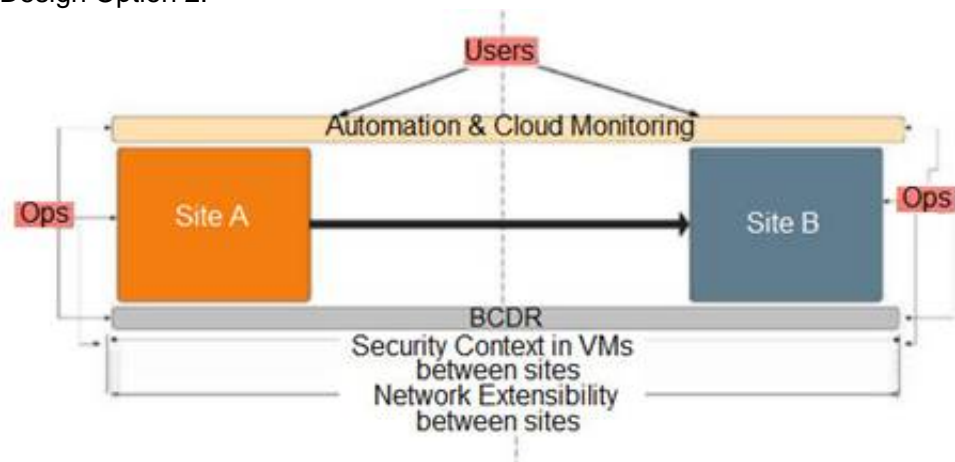
Answer: B

NEW QUESTION 38
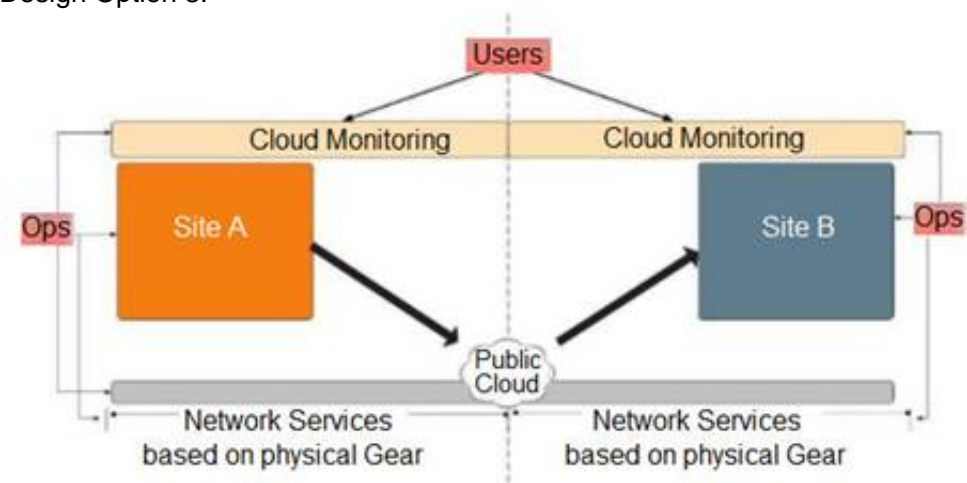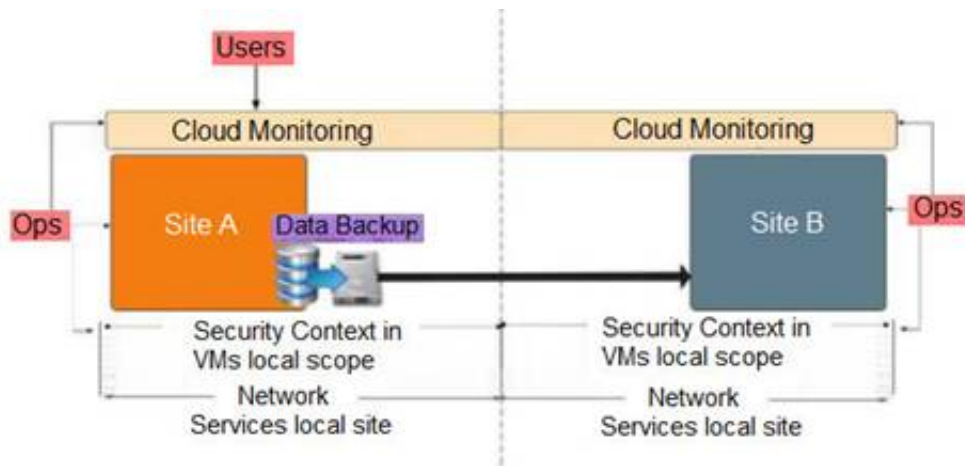Refer to the exhibits.
Design Option1:

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 40
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 45
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 46
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 48
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 52

Which three IPv6 features are supported in an NSX-T Data Center design? (Choose three.)

A. IPv6 OSPF
B. IPv6 static routing
C. IPv6 switch security
D. IPv6 DNS
E. IPv6 Distributed Firewall
F. IPv6 VXLAN

Answer: BCE

NEW QUESTION 53

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 55

Which type of design includes vendor models, host names, IP Addresses, port connections, logical unit number sizes, and number of CPUs? (Choose the best answer.)

A. Physical Design
B. Conceptual Design
C. High-Level Design
D. Logical Design

Answer: A

NEW QUESTION 58

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 Enagagement 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 constraint was documented by the architect? (Choose the best answer.)

A. Dynamic routing should be configured between the physical and virtual network.
B. There are applications which use IPv6 addressing.
C. Hosts can only be configured with two physical NICs.
D. There are enough CPU and memory resources in the existing management cluster.

Answer: A

NEW QUESTION 62
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