

# VMware

## Exam Questions 3V0-42.20

Advanced Design VMware NSX-T Data Center



#### NEW QUESTION 1

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:

- > Customer is concerned with NSX Manager availability.
- > 3 cabinets/racks are available in the data center.
- > No integration with 3rd party solution is required.
- > There is no budget for physical equipment acquisition.
- > The 3 cabinets/racks do not share the same L2 domain.

Which three selections should the architect include in their design to address the customer's concern with NSX Manager availability? (Choose three.)

- A. Deploy 2 cold standby NSX Manager appliances in rack 2/3.
- B. Use separate IP per NSX Manager appliance per rack.
- C. Use another NSX Manager IP in case an appliance fails.
- D. Deploy a single active NSX Manager appliance in rack 1.
- E. Deploy an NSX Manager Appliance per rack and cluster them.
- F. Use a physical/internal load-balancer with the cluster.

**Answer:** ADE

#### NEW QUESTION 2

A telecom company has purchased NSX-T as part of a Software Defined Data Center (SDDC) initiative. The company wants to ensure the highest performance for network traffic leaving the virtual environment.

- A. Configure Equal-Cost Multi-Pathing on the NSX Edges.
- B. Configure SR-IOV for the virtual NSX Edges.
- C. Use bare metal NSX Edges.
- D. Select Network cards that support VXLAN Offload.
- E. Set Latency Sensitive option to High when deploying the virtual NSX Edges.

**Answer:** BE

#### NEW QUESTION 3

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 4

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 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

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 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 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

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:

- > Existing hardware will be used in any design proposal.
- > Network bandwidth cannot be expanded.

Which concept of the Discover Task do these items belong to? (Choose the best answer.)

- A. constraint
- B. requirement
- C. risk
- D. assumption

**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 12

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 17

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 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 23

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 28

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 31

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 32

An architect is helping an organization with the Logical Design of an NSX-T Data Center solution.

During discussions about centralized services NAT running on Tier-1 or Tier-0 Gateway, the customer made these requests:

- > Services contain stateful services.
- > Services should be in high availability mode.

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

- A. An active/active model should be used.
- B. Use Reflexive NAT on the uplink interface.
- C. DNAT should be applied on the uplink interface.
- D. Mix stateful and stateless NAT rules on the same gateway.
- E. The high availability mode supported is only Active-Standby.

**Answer:** DE

#### NEW QUESTION 36

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 41

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 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 44

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 46**

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 47**

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 51**

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 Enagement 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 52**

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 54**

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