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Advanced Design VMware NSX-T Data Center

VMware 3V0-42.20

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QUESTION NO: 1

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

QUESTION NO: 2

An architect is helping an organization with the Logical Design of a Layer 2 bridging solution.

This information was gathered during the Assessment Phase:

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

Explanation:

<https://docs.vmware.com/en/VMware-NSX-T-Data-Center/2.3/com.vmware.nsx.admin.doc/GUID-7B21DF3D-C9DB-4C10-A32F-B16642266538.html>

QUESTION NO: 3

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: A E

Explanation:

EVPN deployments require:

- A deployed Tier-0 gateway
- A remote gateway with support for MP-BGP and VXLAN
- An overlay virtual router with BGP and VLAN tagging capabilities.

EVPN is not compatible with the following services:

- Load Balancer
- VPN

Take from NSX-T ICM 3.0 Lecture Manual - Requirements and Limitations of EVPN section.

Reference: https://docs.vmware.com/en/VMware-NSX-T-Data-Center/3.0/nsxt_30_admin.pdf

QUESTION NO: 4

An architect is helping an organization with the Conceptual Design of an NSX-T Data Center solution. Which three selections are requirements documented by an architect? (Choose three.)

- A. Aggregate N-S throughput at any given time should be at least 10G.
- B. All traffic should recover in the event of Host/Rack/ToR failure.
- C. Hardware is 5 years old and new hardware is already purchased.
- D. SAN storage has enough capacity to build the new infrastructure.
- E. Business critical applications should have an SLA of 99.99%.
- F. The Development Team are heavy on API usage.

ANSWER: A B E

QUESTION NO: 5

A customer deploying NSX-T Data Center requires role based access controls be enforced in NSX Manager with these requirements:

Which identity deployments would meet the customer's requirements? (Choose the best answer.)

- A. NSX Manager OAuth 2.0 registered to a 3-node Active Directory Federation Services cluster.
- B. NSX Manager OAuth 2.0 registered to a 2-node VMware Identity Manager cluster.
- C. NSX Manager OAuth 2.0 registered to a 2-node Active Directory Federation Services cluster
- D. NSX Manager OAuth 2.0 registered to a 3-node VMware Identity Manager cluster.

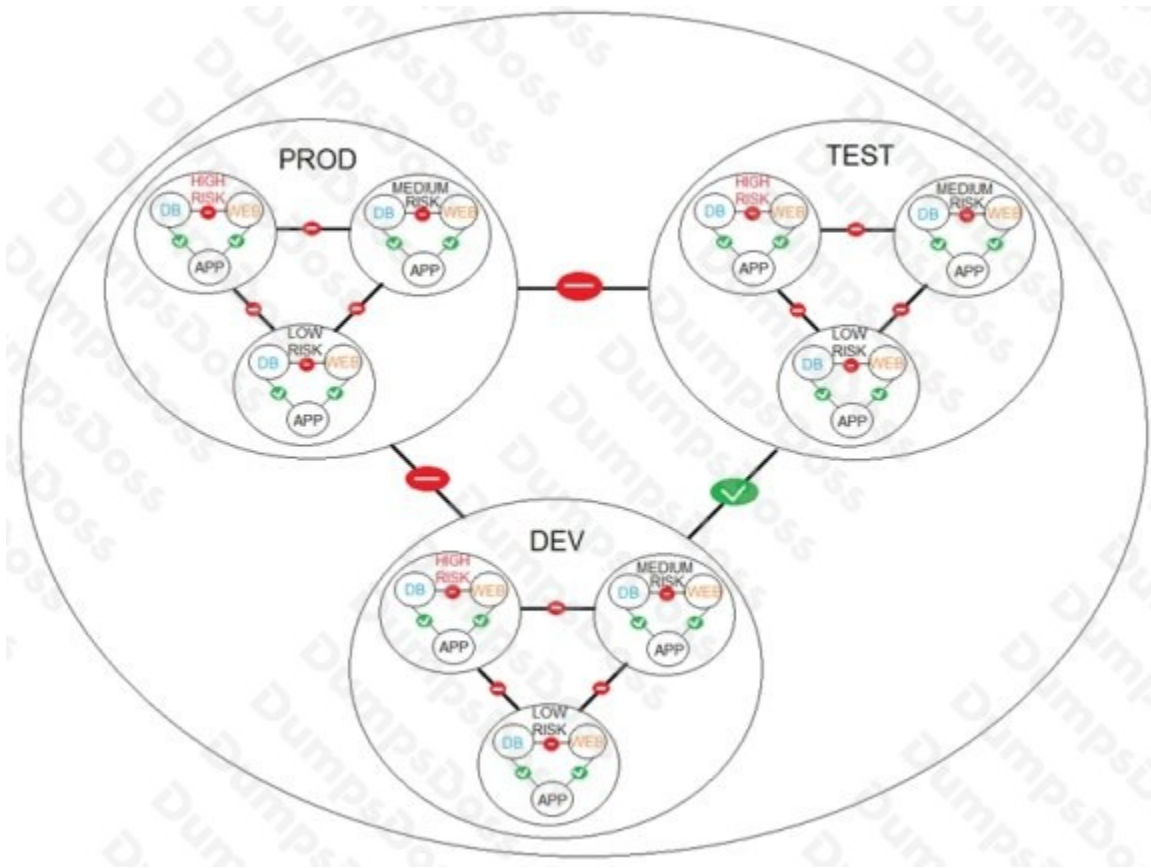
ANSWER: D

Explanation:

<https://docs.vmware.com/en/VMware-Workspace-ONE-Access/19.03/vidm-install/GUID-3BFB1D4D-D5C2-480D-94E0-31ED6B0CAA63.html>

QUESTION NO: 6

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: D

Explanation:

Each circle in this design is a "level" starting at the most granular level which is the sub-component of the app (web, db., or app), then risk level (high, med, low) then deployment zone (prod, dev, test), and then finally infrastructure services level.

QUESTION NO: 7

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: B E

Explanation:

<https://docs.vmware.com/en/VMware-Validated-Design/services/deployment-of-nsx-t-edge-nodes-on-bare-metal-hardware-for-vmware-cloud-foundation-40/GUID-AAA3EDD0-2F19-49F8-B9B3-F5B1505CBB28.html>

QUESTION NO: 8

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: C D

Explanation:

The following protocols are used to implement multicast in NSX-T Data Center 3.0>

Internet Group Management Protocol (IGMP)

- IGMPv2

- IGMP Snooping

Protocol-Independent Multicast (PIM)

- PIM Sparse Mode (PIM-SM)

- PIM Bootstrap.

Take from NSX-T ICM 3.0 Lecture Manual - Multicast Protocols section.

or

<https://docs.vmware.com/en/VMware-NSX-T-Data-Center/3.0/administration/GUID-6AAC3360-4F79-4FBF-BCC1-0D8C220B0621.html>

QUESTION NO: 9

An NSX-T Architect is working in a brownfield environment with 4 ESXi hosts. These constraints were documented:

Which three recommendations should the architect implement? (Choose three.)

- A. Remove one of the ESXi hosts and install a bare-metal Edge.
- B. Use a resource pool for production workloads.
- C. Use a resource pool to deploy the Edge nodes on.
- D. Recommend obtaining 2 new physical NICs for the servers.
- E. Install Edge nodes on a separate cluster.

ANSWER: B C D

Explanation:

<https://docs.vmware.com/en/VMware-Validated-Design/services/deployment-of-nsx-t-workload-domains-with-mult-az-using-vmware-cloud-foundation/GUID-15C5DFF8-C8D9-40AB-AFAF-89887281F3C8.html>

QUESTION NO: 10

A customer wants to place their NSX Managers in different subnets. Which would an architect recommend to support the request? (Choose the best answer.)

- A. Use a load balancer.
- B. Use round-robin DNS.
- C. Use NAT.
- D. Use a cluster Virtual IP.

ANSWER: A

Explanation:

An external load balancer can provide the following benefits:

Load balance across the NSX Managers.

The NSX Managers can be in different subnets.

Fast recovery time in the event of a Manager node failure.

<https://docs.vmware.com/en/VMware-NSX-T-Data-Center/3.0/installation/GUID-AAA6AB26-1D77-46CF-9F1E-AD9BE6BC55C1.html>