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Advanced Design VMware NSX-T Data Center

VMware 3V0-42.20

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QUESTION NO: 1

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: 2

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 (IMGP)

- IGMPv2

- IGMP Snooping

Protocol-Independent Mutlicast (PIM)

- PIM Sparse Mode (PIM-SM)

- PIM Bootstrap.

Take from NSX-T ICM 3.0 Lecture Manual - Multicas 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: 3

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: 4

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.

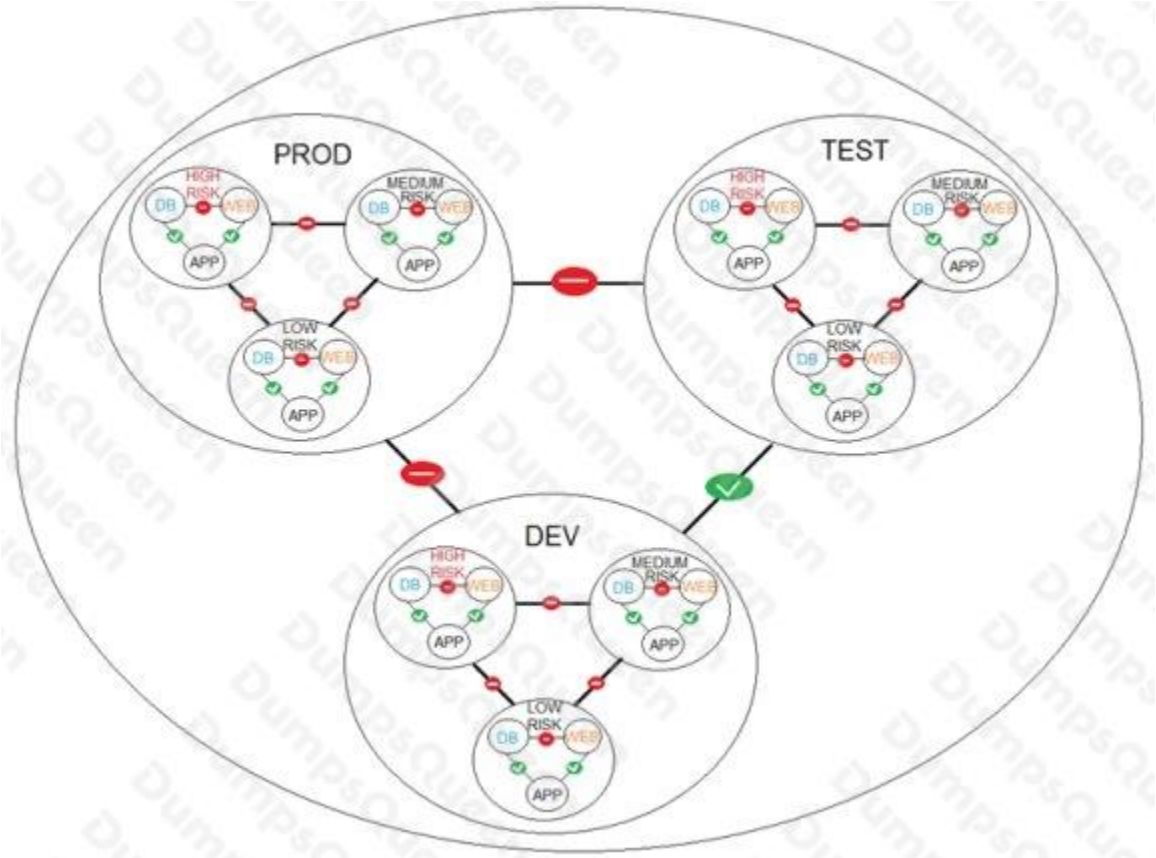
The NSX Managers can be in different subnets.

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

QUESTION NO: 5

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: 6

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: 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

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.nsxt.admin.doc/GUID-7B21DF3D-C9DB-4C10-A32F-B16642266538.html

QUESTION NO: 9

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: 10

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