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

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: B E F

Explanation:

https://docs.vmware.com/en/VMware-NSX-T-Data-Center/2.4/installation/GUID-72A55651-0031-43A4-9F23-5950C1AFF304.html

https://vxplanet.com/2020/03/26/using-nsx-t-loadbalancer-for-the-nsx-t-management-cluster-part-1/

https://vxplanet.com/2020/03/26/using-nsx-t-loadbalancer-for-the-nsx-t-management-cluster-part-2/

QUESTION NO: 2

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: C D F

Explanation:

"Design qualifiers ensure that all levels of the engagement are met. Each qualifier affects the other qualifiers. Design qualifiers include: • Availability • Manageability • Performance • Recoverability • Security • Cost"

QUESTION NO: 3

Which is a family of solutions for data center designs that span compute, storage, networking, and management, serving as a blueprint for a customer's Software Defined Data Center (SDDC) implementations? (Choose the best answer.)

A. VMware SDDC Design

B. VMware Validated Design

C. VMware POC Design

D. VMware Cloud Foundation

ANSWER: B

QUESTION NO: 4

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

This information was gathered during a workshop:

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 NIC. Also, create an NSX-T Virtual Distributed Switch (N-VDS) for overlay traffic and assign one NIC.

B. Create an NSX-T Virtual Distributed Switch (N-VDS) for Management VMkernel traffic and assign one NIC. 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 and overlay traffic and assign both NICs.

D. Create an NSX-T Virtual Distributed Switch (N-VDS) for Management VMkernel and overlay traffic and assign a new virtual NIC.

ANSWER: C

QUESTION NO: 5

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: 6

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

Explanation:

https://docs.vmware.com/en/VMware-Validated-Design/6.1/sddc-architecture-and-design-for-the-management-domain/GUID-1117D50C-096D-40B8-84C0-B9D636E322C6.html

QUESTION NO: 7

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: A C

QUESTION NO: 8

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:

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: A C

QUESTION NO: 9

A Solutions Architect is working with a customer which wants to extend their traditional Telco IP/MPLS core network to an NFV cloud.

Which NSX-T Data Center feature can be recommended by the architect? (Choose the best answer.)

A. Distributed IDS

B. EVPN

C. Load Balancer

D. BGP

ANSWER: B

Explanation:

In NSX-T Data Center 3.0, EVPN is used to extend traditional Telco networks to NFV clouds:

- Telco virtual router use BPG to dynamically exchange tenant routing with NSX gateways.

- NSX gateways implement VRFs to provide isolation between tenants.

- NSX gateways support MP-BPG to interconnect Telco traditional networks with NSX virtual networks.

- VXLAN is the encaptulation supported to exchange traffic with the remote gateways.

Taken from NSX-T ICM 3.0 Lecture Manual - Telco NFV Solution

QUESTION NO: 10

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

This information was gathered during the assessment:

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: C E

Explanation:

https://www.virtualizationhowto.com/2019/10/vmware-nsx-t-performance-tips-and-tuning/