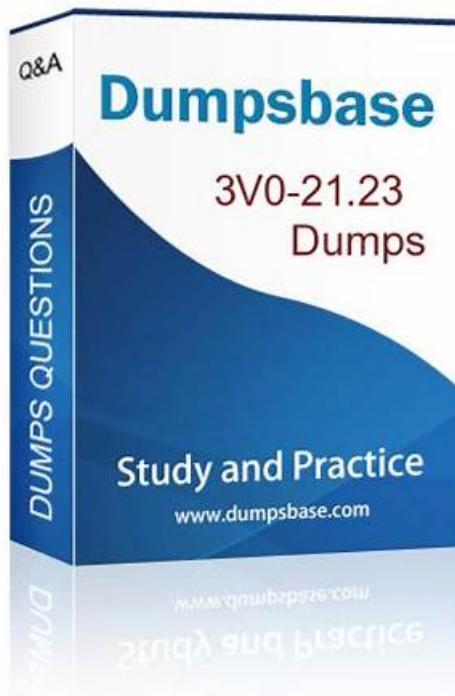


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VMware 3V0-21.23 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">VMware Products and Solutions: Targeting VMware Engineers, this section describes VMware Cloud Foundation architecture, its components like vSphere and NSX, benefits such as automation and scalability, and use cases like hybrid cloud environments. It assesses understanding of VMware Validated Solutions.
Topic 2	<ul style="list-style-type: none">Plan and Design the VMware Solution: This part targets Solution Designers, evaluating their ability to gather business objectives, create conceptual models based on these objectives, develop logical designs, and translate them into physical designs that meet specific requirements like manageability or security.
Topic 3	<ul style="list-style-type: none">IT Architectures, Technologies, Standards: This section of the exam measures the skills of IT Architects and covers differentiating between business and technical requirements, as well as conceptual, logical, and physical design. A key skill measured is "Designing System Availability."

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VMware vSphere 8.x Advanced Design Sample Questions (Q48-Q53):

NEW QUESTION # 48

An organization's data scientists are executing a plan to use machine learning (ML). They must have access to graphical processing unit (GPU) capabilities to execute their computational models when needed. The solutions architect needs to design a solution to ensure that GPUs can be shared by multiple virtual machines.

Which two solutions should the architect recommend to meet these requirements- (Choose two.)

- A. vSphere Bitfusion
- B. vSphere DirectPath I/O
- C. AMD MxGPU
- D. NVIDIA vGPU
- E. vSGA

Answer: A,D

Explanation:

<https://blogs.vmware.com/apps/2018/07/using-gpus-with-virtual-machines-on-vsphere-part-1-overview.html>

NEW QUESTION # 49

An architect is designing a new vSphere architecture and notes the following information during the design workshops:
vSphere distributed switches (VDS) will be used for all vSphere clusters. Switch naming will be based on cluster name, resource type function and switch number.

Port group naming will be based on function, role and VLAN number range.

Each host has two physical network cards each with two NIC ports:

- Card A aligns to vmnic0 and vmnic1
- Card B aligns to vmnic2 and vmnic3

The architecture must provide resilient network connections.

Management Services will use VLAN ID 43.

Virtual machines access VLAN ID 100.

The vSphere infrastructure will use a hyper-converged storage architecture.

How should the architect document the VDS physical design based on the noted information?

- A. vSwitch Prod_DVS_01 will have 4 uplinksPort group name "pg_mgmt_43"- uplink = vmnic0, vmnic2- teaming policy = active/passivePort group name "pg_VM_100"- uplink = vmnic1, vmnic3- teaming policy = active/passive
- B. vSwitch Prod_DVS_01 will have 4 uplinksPort group name "pg_mgmt"- uplink = vmnic0, vmnic2- teaming policy = active/passivePort group name "pg_VM"- uplink = vmnic1, vmnic3- teaming policy = active/passive
- C. vSwitch Prod_DVS_01 will have 2 uplinksPort group name "pg_mgmt_43"- uplink = vmnic0- teaming policy = active/passivePort group name "pg_VM_100"- uplink = vmnic1- teaming policy = active
- D. vSwitch Prod_DVS_01 will have 4 uplinks Port group name "pg_mgmt_43"- uplink = vmnic0, vmnic1- teaming policy = active/passivePort group name "pg_VM_100"- uplink = vmnic2, vmnic3- teaming policy = active/passive

Answer: A

NEW QUESTION # 50

What is the primary function of vCenter Server in a vSphere environment?

- A. To manage and secure the physical network infrastructure
- B. To provide a platform for virtual machine storage
- C. To manage and monitor virtual machines and ESXi hosts

- D. To provide licensing for vSphere products

Answer: C

NEW QUESTION # 51

An architect is designing a solution for an environment with a limited number of operating system licenses. How should the architect design the virtual infrastructure to meet the operating system license requirements?

- A. Place the hosts into a single cluster and enable automated placement of virtual machines.
- B. Use standalone ESXi hosts and only apply the operating system licenses to those hosts.
- C. Create a resource pool and only put the virtual machines that need the operating system licenses within the pool.
- D. **Create rules to restrict placement of virtual machines to specified hosts.**

Answer: D

NEW QUESTION # 52

An architect is responsible for designing a vSphere-based solution for a customer. The customer has the following requirement: There should be no single points of failure within the solution.

Which three considerations regarding physical host design should an architect analyze when making network teaming-related design decisions? (Choose three.)

- A. **To increase availability, the NICs within a NIC team should be from different physical NIC Cards.**
- B. NIC Teaming requires a minimum of three physical network connections.
- C. For NIC Teaming, all NICs in the same port group must be in the same routable network.
- D. To increase performance, the NICs within a NIC team should be from the same physical NIC Card.
- E. **NIC Teaming requires a minimum of two physical network connections.**
- F. **For NIC Teaming, all NICs in the same port group must be in the same layer 2 broadcast domain.**

Answer: A,E,F

Explanation:

For NIC Teaming, all NICs in the same port group must be in the same layer 2 broadcast domain.

This is a key consideration for NIC teaming. All NICs in a team must be in the same Layer 2 broadcast domain to ensure that traffic is properly routed and that the NIC team can work as expected within the vSphere environment. This is necessary for network redundancy and communication consistency.

To increase availability, the NICs within a NIC team should be from different physical NIC Cards.

To eliminate single points of failure, NICs within the same NIC team should be sourced from different physical NIC cards. This way, if one physical NIC card fails, the other NICs in the team will still be able to handle network traffic, ensuring availability.

NIC Teaming requires a minimum of two physical network connections.

NIC Teaming relies on having at least two physical NICs for redundancy and load balancing. This is a basic requirement to prevent single points of failure in network connectivity. With only one NIC, there would be no fault tolerance.

NEW QUESTION # 53

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