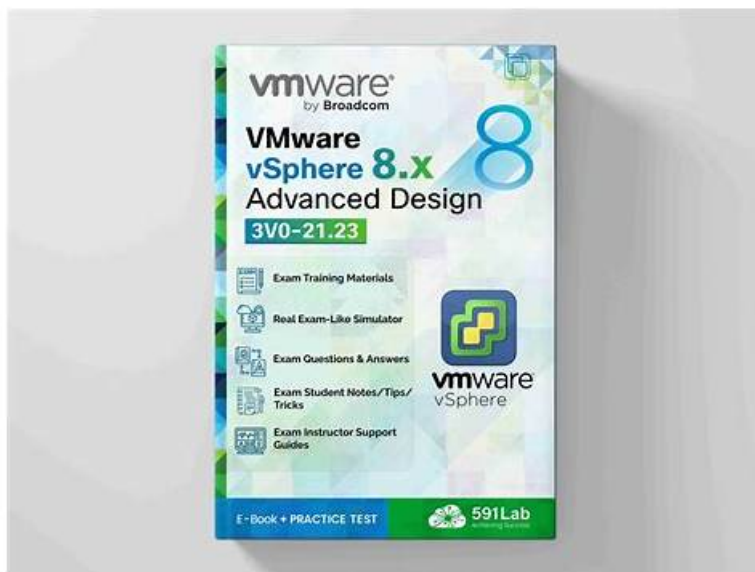# 2026 VMware Perfect 3V0-21.23: VMware vSphere 8.x Advanced Design Reliable Test Tutorial

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VMware 3V0-21.23 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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."

Topic 2	• 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 3	• 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.

VMware vSphere 8.x Advanced Design Sample Questions (Q52-Q57):

NEW QUESTION # 52
An architect is tasked with updating the design of an existing vSphere-based solution for a pharmaceuticals customer. The update will include upgrade to VMware vCenter 8 and VMware vSphere 8 and the creation of a new cluster that will be used for ongoing research projects. The research project that is driving the need for an update includes a number of applications that are latency-sensitive.
The customer has confirmed the following information during the initial workshop:
The customer recently completed a right sizing exercise using VMware Aria Operations that resulted in a number of ESXi hosts becoming available for use.
Each of the VMware ESXi host servers is configured with:
-- 2 x 20-core Intel Xeon CPU sockets
-- 1024 GB RAM divided evenly between sockets
There is no additional budget for purchasing hardware.
After confirming the existing hardware is still listed on the VMware Hardware Compatibility List (HCL), the architect makes the following design decisions with regard to the workload design:
The solution will support a maximum of 20 combined cores and sockets per virtual machine.
The solution will support a maximum of 512 GB RAM per virtual machine.
What should the architect document as justification for these design decisions?

- A. The maximum supported configuration will ensure efficient use of RAM by sharing memory pages between virtual machines.
- B. The maximum supported configuration will allow the creation of virtual machines that cross NUMA node boundaries resulting in improved overall performance.
- C. The maximum supported configuration will ensure the virtual machines will adhere to a single Non- Uniform Memory Access (NUMA) node boundary.
- D. The maximum supported configuration will ensure each virtual machine will exclusively consume a whole CPU socket.

Answer: C

Explanation:
NUMA (Non-Uniform Memory Access) is a system architecture in which a multiprocessor system is divided into multiple memory nodes. Each NUMA node typically has its own local memory that is faster to access than remote memory from other nodes.
In this case, each ESXi host has two CPU sockets (each with 20 cores) and 1024 GB of RAM divided evenly between the two sockets, meaning there are two NUMA nodes in each host.
By limiting the virtual machine to a maximum of 20 cores and sockets per virtual machine, and 512 GB of RAM, this ensures that each virtual machine will fit within a single NUMA node, preventing the virtual machine from crossing NUMA node boundaries. This design helps maintain better memory access performance and avoids potential performance degradation that can occur when a VM accesses memory across NUMA nodes.

NEW QUESTION # 53
During a requirements gathering workshop, the customer provides the following information:
- Each host has 2 * 10 GbE NIC
- EtherChannel is not currently configured
- No changes can be made to the physical network
- Network throughput must be prioritized for defined critical services.
Which two recommendations should the architect make with regard to virtual networking? (Choose two.)

- A. Use Network I/O Control with Reservation.

- B. Use Network I/O Control with Limits.
- C. Use Link Aggregation Control Protocol (LACP).
- D. Use Network I/O Control with Shares.
- E. Use Route Based on Physical NIC Load.

Answer: D,E

NEW QUESTION # 54

An architect is tasked with an application migration to a new VMware Cloud platform. The application service owner assistance from the architect to identify the technical requirements of the application.
The following has been made available following initial discussions:
A VMware Aria Operations report containing current resource usage
The output from a planning session including a roadmap for planned service growth A service dependency map from the company's IT operations management tool The desired consolidation ratio for the target platform is 10:1 The applications hosting budget is reducing by 10% Which two contain the technical requirements of the application? (Choose two.)

- A. The applications hosting budget is reducing by 10%
- B. The desired consolidation ratio for the target platform is 10:1
- C. A service dependency map from the company's IT operations management tool
- D. The output from a planning session including a roadmap for planned service growth
- E. A VMware Aria Operations report containing current resource usage

Answer: B,E

Explanation:
The desired consolidation ratio for the target platform is 10:1:
The consolidation ratio is a key technical requirement as it directly influences the planning for the deployment and resource allocation in the new VMware Cloud platform. It defines how many virtual machines can be consolidated per physical host in the target environment, which is critical for the sizing and resource planning.
A VMware Aria Operations report containing current resource usage:
The VMware Aria Operations report provides actual data on the current resource consumption of the application. This report is essential for understanding how much resource the application currently uses and helps in determining the necessary capacity in the target platform. This is a technical requirement since it informs resource allocation, scaling, and performance expectations.

NEW QUESTION # 55

A customer has six hosts available in a cluster. When running at full capacity, all virtual machines can be run on two hosts.
How many hosts can the customer place into maintenance mode at the same time while still providing N+2 resiliency to the cluster?

- A. None
- B. Three
- C. One
- D. Two

Answer: D

NEW QUESTION # 56

An architect is tasked with planning the design of a new vSphere environment. When commissioned, this environment will be used to migrate an existing set of virtual machines.
An inventory of the existing infrastructure, including configured vCPU, RAM and storage sizes has been provided.
In order for each virtual machine to be migrated, which two data sources with peak and average utilization data are required for sizing- (Choose two.)

- A. Ballooned memory
- B. IOPS
- C. CPU
- D. Disk Write latency
- E. %Ready

Answer: B,C

Explanation:
For each system, capture peak and average utilization for the following items:
- CPU
- RAM
- IOPS
- Network utilization
https://sysarticles.com/vmware-vsphere-analyzing-the-current-state/

NEW QUESTION # 57

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