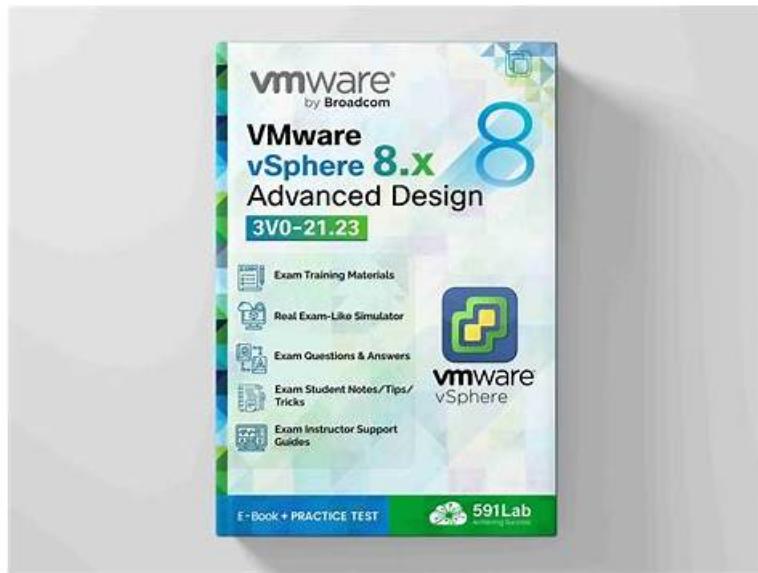


2026 3V0-21.23: VMware vSphere 8.x Advanced Design–Valid Practice Exam Pdf



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VMware 3V0-21.23 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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 (Q41-Q46):

NEW QUESTION # 41

Which requirement focuses on the uninterrupted operation of the vSphere environment during disruptions?

- A. Business continuity requirements
- B. Compliance requirements
- C. Capacity requirements
- D. Performance requirements

Answer: A

NEW QUESTION # 42

How are workload and management clusters different?

- A. Workload clusters handle resource management, while management clusters focus on security and compliance.
- B. Workload clusters are deployed in multiple data centers, while management clusters are only used in a single data center.
- C. Workload clusters are used for running virtual machines, while management clusters are used for vCenter Server and other management components.
- D. Workload clusters are only used for development environments, while management clusters are used for production environments.

Answer: C

NEW QUESTION # 43

Which vSphere feature is used to allocate CPU and memory resources dynamically among virtual machines within a cluster, based on predefined resource allocation rules?

- A. Fault Tolerance (FT)
- B. Storage DRS (SDRS)
- C. Distributed Resource Scheduler (DRS)
- D. vSphere High Availability (HA)

Answer: C

NEW QUESTION # 44

An architect is designing a vSphere-based application hosting solution in a brownfield site.

The following information has been provided during the requirements gathering workshop:

The solution should support 5,000 compute workloads across two physical sites.

The CFO has approved budget for the purchase of new server and network hardware only.

The existing storage array is currently Fibre Channel connected with 2 x 8 Gbps interfaces to a dedicated Storage Area Network (SAN) fabric.

The existing storage array does not support integration with vSphere API for Storage Awareness.

The existing storage array can be configured to support NFS storage.

The existing vSphere administration team will be responsible for operational management of the new solution.

Which storage technology should the architect recommend based on these requirements?

- A. iSCSI
- B. VMware vSAN
- C. Fibre Channel
- D. vSphere Virtual Volumes (vVols)

Answer: C

Explanation:

Fibre Channel is the Recommended Storage Technology for the Brownfield vSphere Deployment. Given the constraints of the brownfield site, the existing infrastructure, and the approved budget, the architect should recommend leveraging the existing Fibre

Channel storage technology.

Here's the reasoning based on the provided requirements:

Utilize Existing Storage Array: The crucial constraint is that the budget is only for new server and network hardware, explicitly excluding the purchase of a new storage array. The solution must utilize the existing storage array.

Existing Fibre Channel Connectivity: The current storage array is already connected via Fibre Channel with a dedicated SAN fabric (2 x 8 Gbps interfaces). This existing infrastructure can be directly leveraged with new servers equipped with Fibre Channel HBAs.

Budget Alignment: Reusing the existing Fibre Channel SAN aligns with the budget approval for only new server and network hardware (to connect the servers to the existing SAN). Introducing a different storage technology like iSCSI or NFS as the primary method would likely require significant network infrastructure changes or additions beyond standard server networking, which may not be covered by the approved budget for "new server and network hardware only." While the array can support NFS, the existing high-speed, dedicated storage connectivity is Fibre Channel.

Incompatibility with vVols: The existing storage array does not support vSphere API for Storage Awareness (VASA), which is a mandatory requirement for implementing vSphere Virtual Volumes (vVols). Therefore, vVols is not a viable option with the current storage hardware.

vSAN Not Applicable to Existing Array: VMware vSAN is a software-defined storage solution that pools local storage from ESXi hosts. It does not directly utilize external Fibre Channel SAN arrays as its primary storage pool in the standard configuration.

Implementing vSAN would require a significant investment in server local storage, which falls outside the scope of using the existing storage array.

Manageability: The existing vSphere administration team is responsible for operational management. Fibre Channel storage is a mature and commonly used storage technology in vSphere environments, meaning the existing team is likely to have the necessary skills to manage it.

While the existing array can be configured for NFS, leveraging the existing Fibre Channel connectivity is the most direct and budget-aligned approach given that the SAN fabric and FC interfaces are already in place and the budget is restricted to server and network hardware for connectivity.

NEW QUESTION # 45

What is the primary purpose of analyzing non-functional requirements for a vSphere design?

- A. To identify the specific tasks and operations the vSphere system should perform.
- B. To ensure the vSphere system complies with relevant regulations and standards.
- **C. To evaluate aspects such as security, performance, and disaster recovery for the vSphere design.**
- D. To determine the hardware specifications and infrastructure needs.

Answer: C

NEW QUESTION # 46

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