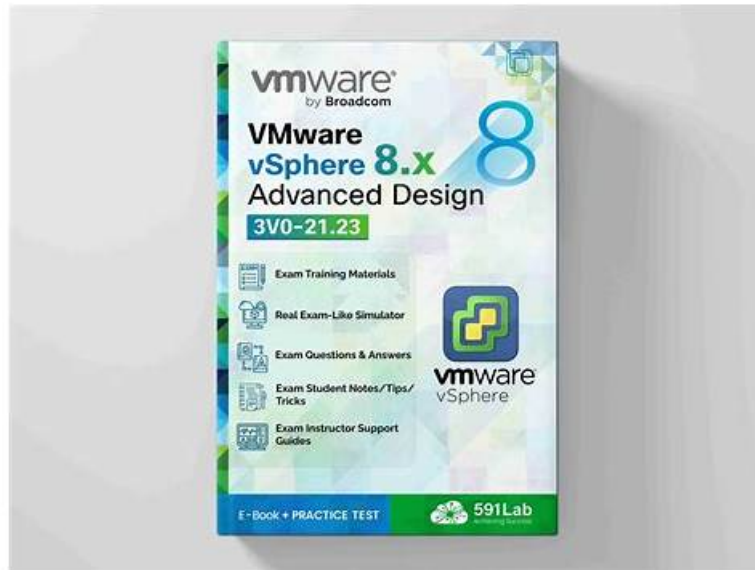


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VMware 3V0-21.23 Exam Syllabus Topics:

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 (Q73-Q78):

NEW QUESTION # 73

An architect is working on a new VMware vSphere design and notes the following information during interviews with stakeholders:
The company has previously worked with multiple VMware partners
The company has an internal security policy that is referenced in long running contracts
The company has an Enterprise License Agreement (ELA) with VMware
The company has a multi-year cloud subscription agreement
Which of these is a business factor that will impact this design?

- A. The company has a multi-year cloud subscription agreement.
- **B. The company has an internal security policy that is referenced in long running contracts.**
- C. The company has an Enterprise License Agreement (ELA) with VMware.
- D. The company has previously worked with multiple VMware partners.

Answer: B

Explanation:

Based on VMware vSphere 8.x Advanced documentation and standard IT architecture practices, the architect is designing a new VMware vSphere solution and must identify a business factor that will impact the design.

A business factor is a high-level organizational or strategic consideration that influences the design, typically related to goals, policies, financial constraints, or contractual obligations, as opposed to technical or operational details.

Requirements Analysis:

* Business factor: This refers to a non-technical, strategic element that shapes the vSphere design, such as corporate policies, financial agreements, or business objectives. It impacts decisions like security, compliance, licensing, or integration with existing strategies.

* Provided information:

- * The company has worked with multiple VMware partners (historical vendor relationships).
- * The company has an internal security policy referenced in long-running contracts (compliance and security obligations).
- * The company has an Enterprise License Agreement (ELA) with VMware (licensing and cost structure).
- * The company has a multi-year cloud subscription agreement (cloud strategy alignment).

Evaluation of Options:

* A. The company has previously worked with multiple VMware partners:

* Why incorrect: While prior partnerships with VMware partners may influence vendor selection or implementation expertise, this is a historical operational detail, not a strategic business factor.

It does not directly impact the design's architecture, such as security, licensing, or workload placement, unless explicitly tied to ongoing obligations (not indicated here): VMware vSphere 8 design principles focus on business factors like policies or agreements, not past vendor relationships.

B: The company has an Enterprise License Agreement (ELA) with VMware:

Why incorrect: An ELA with VMware is a financial and licensing agreement that provides access to VMware products at a negotiated rate. While it influences cost and licensing choices (e.g., vSphere Enterprise Plus vs. Standard), it is a contractual enabler rather than a primary business driver shaping the design's architecture. The ELA ensures access to features but does not dictate specific design decisions like security or workload isolation.

Reference: VMware vSphere 8 documentation notes ELAs as cost-related considerations, secondary to strategic business factors like compliance.

C: The company has an internal security policy that is referenced in long running contracts:

Why correct: An internal security policy referenced in long-running contracts is a business factor because it represents a strategic, organizational requirement that directly impacts the vSphere design. Such policies typically mandate specific security controls (e.g., encryption, access controls, auditing) or compliance standards (e.g., GDPR, HIPAA) that must be incorporated into the architecture. Long-running contracts suggest external obligations (e.g., with customers or regulators), making compliance a critical business driver.

The design must align with these policies to ensure legal and contractual adherence, affecting decisions like VM encryption, network segmentation, or logging.

Reference: VMware vSphere 8 design best practices emphasize incorporating corporate security policies as business factors to ensure compliance and alignment with contractual obligations.

D: The company has a multi-year cloud subscription agreement:

Why incorrect: A multi-year cloud subscription agreement indicates a strategic commitment to cloud services (e.g., VMware Cloud on AWS or another provider). While this could influence hybrid cloud integration, it is a secondary consideration compared to the security policy, as it does not directly mandate specific design requirements for the on-premises vSphere solution. The agreement may suggest future cloud migration but does not inherently impact the current vSphere design's architecture.

Reference: VMware vSphere 8 documentation considers cloud strategies as business factors, but security policies take precedence when tied to contractual obligations.

Why C is the Best Choice:

Strategic impact: The internal security policy, especially when referenced in long-running contracts, is a critical business factor that drives design decisions to ensure compliance, security, and contractual adherence.

It may require specific vSphere features like VM Encryption, NSX firewalls, or audit logging.

Contractual obligations: Long-running contracts imply external commitments (e.g., to clients or regulators), elevating the policy's importance as a business driver over licensing (B) or cloud agreements (D).

Design influence: Security policies directly affect the vSphere architecture, influencing choices like network segmentation, encryption, access controls, and monitoring, making them a primary business factor.

Example Design Implications:

Security Policy Requirements: The policy may mandate data-at-rest encryption, prompting the use of vSphere VM Encryption or vSAN encryption.

Compliance: Contracts may require audit trails, leading to integration with VMware Aria Operations for logging or NSX for micro-segmentation.

Isolation: The policy may enforce workload isolation, influencing cluster design or NSX network policies.

NEW QUESTION # 74

What do workload design requirements focus on?

- A. The type and configuration of hardware components.
- **B. The tasks and operations the system should perform.**
- C. The expected response time for system interactions.
- D. The network protocols and configurations for data transfer.

Answer: B

NEW QUESTION # 75

An architect is designing a new vSphere platform for a customer to meet the following requirements:

- The platform must be deployed into five physically separate sites.
- The sites are spread across multiple regions.
- Some sites require more than one vCenter Server.
- The platform must provide an administrator with the ability to access virtual infrastructure components across all sites from a single management tool instance.

Which single sign-on (SSO) design recommendation will meet these requirements?

- **A. Use an SSO domain across all vCenter Server instances**
- B. Use an SSO domain per vCenter Server instance
- C. Use an SSO domain per region
- D. Use an SSO domain per site

Answer: A

NEW QUESTION # 76

An architect is designing the access management component of a vSphere-based solution. During a requirements gathering workshop, the customer states that the architecture must use a centralized user authentication solution.

The architect decides that an Open Lightweight Directory Access Protocol (OpenLDAP) solution would meet the requirement. The security team intervenes and requires that the solution use the corporate Active Directory Domain Services solution.

At which point did the architect's design become constrained?

- A. When the customer provided the requirement for the use a centralized user authentication solution.
- B. When the architect finished documenting all of the requirements.
- C. When the architect made the design decision to use an OpenLDAP solution for user authentication.
- **D. When the customer required the use of the corporate Active Directory Domain Services solution.**

Answer: D

Explanation:

The design became constrained when the customer required the use of the corporate Active Directory Domain Services (AD DS)

solution. The security team's intervention and insistence on using the corporate Active Directory effectively limited the options available for the authentication solution, as OpenLDAP was no longer a valid choice. At this point, the solution's scope was restricted to ensure compatibility with the customer's existing Active Directory infrastructure, which imposed a specific requirement on the design.

NEW QUESTION # 77

An architect is designing a new vSphere environment with the following resources:

- 600 vCPU
- 5,760 GB RAM

Average resource usage is:

- 60 vCPU
- 1,152 GB RAM

The design must meet the following requirements:

- The environment has the ability to burst by 25%.
- Each host can schedule 36 vCPUs and has 512 GB RAM.
- Management overhead is 20%.

What is the minimum number of hosts required to meet the design requirements?

- A. Two
- B. Three
- C. Five
- **D. Four**

Answer: D

Explanation:

Take for consideration "Management overhead is 20%."

CPU: $(60+60*0,25+60*0,2)/36 = \sim 2,4$ (round up to 3)

RAM: $(1152+1152*0,25+1152*0,2)/512 = \sim 3,26$ (round up to 4)

NEW QUESTION # 78

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