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Exam : **2V0-13.24**

Title : VMware Cloud Foundation
5.2 Architect

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VMware 2V0-13.24 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">IT Architectures, Technologies, Standards: This section of the exam measures the skills of enterprise architects and solution architects and focuses on the fundamentals of IT architectures, technologies, and standards. It covers differentiating between business and technical requirements, understanding conceptual models, and logical and physical designs, and recognizing the distinctions between requirements, assumptions, constraints, and risks. Also included are availability, manageability, performance, recoverability, and security (AMPRS), developing risk mitigation strategies, documenting design decisions, and creating design validation strategies.
Topic 2	<ul style="list-style-type: none">Plan and Design the VMware by Broadcom Solution: This section of the exam measures the skills of VMware administrators. It involves gathering and analyzing business objectives and requirements to create a conceptual model. Additionally, it covers the creation of VMware Cloud Foundation logical and physical designs. This includes prerequisites and design decisions related to Network Infrastructure, VCF Management Domain, VCF Workload Domain, VCF Edge Cluster, VCF Cloud Automation, and VCF Cloud Operations. Designs should consider availability within and across availability zones, manageability (Lifecycle Management, Scalability, Capacity Management), performance, recoverability (BCDR strategies), and security for VCF Management Components and Workloads. Workload mobility, consumption, and monitoring strategies are also addressed in this section.
Topic 3	<ul style="list-style-type: none">Troubleshoot and Optimize the VMware by Broadcom Solution: This section has NO TESTABLE OBJECTIVES in this version of the exam.
Topic 4	<ul style="list-style-type: none">VMware by Broadcom Solution: This section of the exam measures the skills of cloud architects and infrastructure engineers and focuses on understanding the architecture of VMware by Broadcom solution. Candidates should be able to differentiate between various VMware Cloud Foundation architecture options based on different scenarios.
Topic 5	<ul style="list-style-type: none">Install, Configure, and Administrate the VMware by Broadcom Solution: This section has NO TESTABLE OBJECTIVES in this version of the exam.

VMware Cloud Foundation 5.2 Architect Sample Questions (Q32-Q37):

NEW QUESTION # 32

A VMware Cloud Foundation multi-AZ (Availability Zone) design requires that:

All management components remain centralized.

The availability SLA must be no less than 99.99%.

Which two design decisions would help meet these requirements? (Choose two.)

- A. Implement a stretched L2 VLAN for the infrastructure management components between the AZs.
- B. Select two distant AZs and configure separate management workload domains.
- C. Select two close proximity AZs and configure a stretched management workload domain.
- D. Implement VMware Live Recovery between the selected AZs.
- E. Implement separate VLANs for the infrastructure management components within each AZ.

Answer: C,D

Explanation:

The requirements specify centralized management components and a 99.99% availability SLA (allowing ~52 minutes of downtime per year) in a VMware Cloud Foundation (VCF) 5.2 multi-AZ design. In VCF, management components (e.g., SDDC Manager, vCenter, NSX Manager) are typically deployed in a Management Domain, and multi-AZ designs leverage availability zones for resilience. Let's evaluate each option:

Option A: Implement a stretched L2 VLAN for the infrastructure management components between the AZsA stretched L2 VLAN extends network segments across AZs, potentially supporting centralized management. However, it doesn't inherently ensure

99.99% availability without additional HA mechanisms (e.g., vSphere HA, NSX clustering). The VCF 5.2 Architectural Guide notes that L2 stretching alone lacks failover orchestration and may introduce latency or single points of failure if not paired with a stretched cluster, making it insufficient here.

Option B: Select two distant AZs and configure separate management workload domains. Separate management workload domains in distant AZs decentralize management components (e.g., separate SDDC Managers, vCenters), violating the requirement for centralization. The VCF 5.2 Administration Guide states that multiple management domains increase complexity and don't inherently meet high availability SLAs without cross-site replication, ruling this out.

Option C: Implement VMware Live Recovery between the selected AZs. VMware Live Recovery (part of VMware's DR portfolio, integrating Site Recovery Manager and vSphere Replication) provides disaster recovery across AZs. It ensures centralized management components (in one AZ) can fail over to a secondary AZ, maintaining an RTO/RPO that supports 99.99% availability when properly configured (e.g., <5-minute failover with replication). The VCF 5.2 Architectural Guide recommends Live Recovery for multi-AZ resilience while keeping management centralized, making it a strong fit.

Option D: Implement separate VLANs for the infrastructure management components within each AZ. Separate VLANs per AZ enhance network isolation but imply distributed management components across AZs, contradicting the centralized requirement. Even if management is centralized in one AZ, separate VLANs don't directly improve availability to 99.99% without HA or DR mechanisms, per the VCF 5.2 Networking Guide.

Option E: Select two close proximity AZs and configure a stretched management workload domain. A stretched management workload domain spans two close AZs (e.g., <10ms latency) using vSphere HA, vSAN stretched clusters, and NSX federation. This keeps management components centralized (single SDDC Manager, vCenter) while achieving 99.99% availability through synchronous replication and automatic failover. The VCF 5.2 Architectural Guide highlights stretched clusters as a best practice for multi-AZ designs, ensuring minimal downtime (e.g., seconds during host/AZ failure), meeting the SLA.

Conclusion:

C: VMware Live Recovery enables centralized management with DR failover, supporting 99.99% availability.

E: A stretched management domain in close AZs ensures centralized, highly available management with near-zero downtime. These decisions align with VCF 5.2 multi-AZ best practices.

References:

VMware Cloud Foundation 5.2 Architectural Guide (docs.vmware.com): Multi-AZ Design and Stretched Clusters.

VMware Cloud Foundation 5.2 Administration Guide (docs.vmware.com): Management Domain Resilience.

VMware Live Recovery Documentation (docs.vmware.com): DR for VCF Environments.

NEW QUESTION # 33

When analyzing requirements for VMware Cloud Foundation, which two factors must be taken into account to ensure scalability and future growth?

(Choose two)

Response:

- A. The expected number of workloads to be migrated
- B. The availability of storage within the data center
- C. The management requirements for the SDDC
- D. Existing network infrastructure capabilities

Answer: A,C

NEW QUESTION # 34

During a requirements gathering workshop, several Business and Technical requirements were captured from the customer. Which requirement is classified as a Technical Requirement?

- A. Expand market reach to include new geographical regions.
- B. The system must support 5,000 concurrent users.
- C. Increase customer satisfaction by 15%.
- D. Reduce system processing time for service requests by 25%.

Answer: B

Explanation:

In VMware Cloud Foundation (VCF) architecture, requirements are categorized as Business or Technical based on their focus.

Technical requirements specify measurable system capabilities or constraints, directly influencing design decisions for infrastructure components like compute, storage, or networking. Business requirements, conversely, focus on organizational goals or outcomes that IT supports. Option B, "The system must support 5,000 concurrent users," is a technical requirement because it defines a specific system capacity metric (concurrent users), which directly impacts scalability and resource allocation in VCF design, such as

the sizing of workload domains or NSX configurations. Option A, "Reduce system processing time for service requests by 25%," could be technical but is often a derivative of a business goal (efficiency), making it less explicitly technical in this context. Options C and D, focusing on customer satisfaction and market reach, are clearly business-oriented, tied to organizational outcomes rather than system specifications.

NEW QUESTION # 35

A customer has a requirement to improve bandwidth and reliability for traffic that is routed through the NSX Edges in VMware Cloud Foundation. What should the architect recommend satisfying this requirement?

- **A. Configure a LAG Group for NSX Edges**
- B. Configure a TEP Independent Group for NSX Edges
- C. Configure a Load balanced Group for NSX Edges
- D. Configure a TEP Group for NSX Edges

Answer: A

NEW QUESTION # 36

When designing a physical infrastructure for the VMware Cloud Foundation Workload Domain, which two elements should be prioritized?

(Choose two)

Response:

- **A. Defining resource pools for workloads and their storage requirements**
- B. Ensuring the integration of third-party applications for monitoring
- **C. Determining network traffic types and creating appropriate VLANs for segmentation**
- D. Identifying the geographical distribution of ESXi hosts

Answer: A,C

NEW QUESTION # 37

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