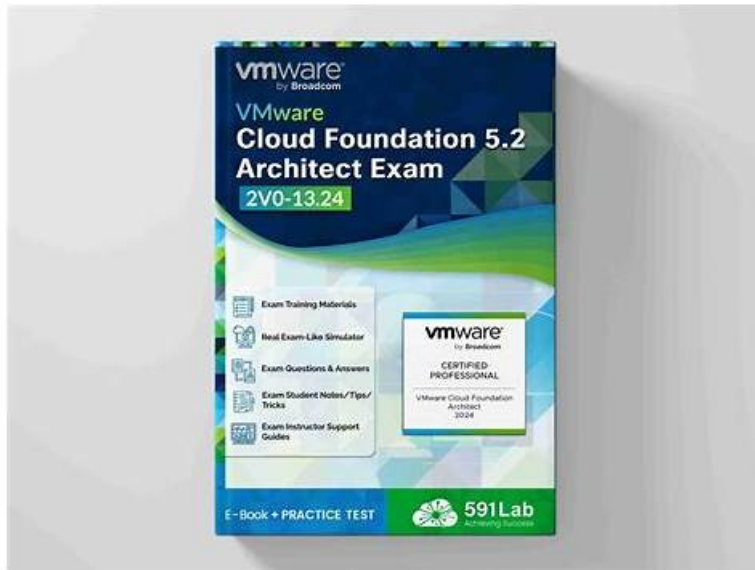


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VMware Cloud Foundation 5.2 Architect Sample Questions (Q70-Q75):

NEW QUESTION # 70

An architect is tasked with designing a new VMware Cloud Foundation environment and has identified the following customer-provided requirements:

REQ01: The application server must handle at least 30,000 transactions per second.

REQ02: The design must meet ISO 27001 information security standards.

REQ03: The storage network should maintain a minimum latency of 12 milliseconds before path failover.

REQ04: The staging environment should utilize a secondary third-party data center.

REQ05: Planned maintenance must be performed outside the hours of 8 AM to 8 PM GMT.

What are the two functional requirements? (Choose two.)

- A. REQ05
- **B. REQ01**
- C. REQ03
- D. REQ02
- **E. REQ04**

Answer: B,E

Explanation:

In VMware Cloud Foundation (VCF) 5.2, requirements are classified as functional (what the system must do) or non-functional (how the system performs or operates). Functional requirements describe specific capabilities or behaviors, while non-functional requirements address qualities like performance, security, or constraints.

Let's classify each:

Option A: REQ01 - The application server must handle at least 30,000 transactions per second. This is correct. This is a functional requirement because it specifies what the application server (a component of the solution) must do - process a defined transaction volume. It's a capability the system must deliver, directly tied to workload performance within the VCF environment.

Option B: REQ02 - The design must meet ISO 27001 information security standards. This is a non-functional requirement. ISO 27001 addresses security qualities (e.g., confidentiality, integrity), defining how the system should operate securely, not what it does. It's a compliance and operational constraint, not a functional capability.

Option C: REQ03 - The storage network should maintain a minimum latency of 12 milliseconds before path failover. This is a non-functional requirement. It specifies a performance threshold (latency) and reliability behavior (failover), describing how the storage network should perform, not a specific function it must provide.

Option D: REQ04 - The staging environment should utilize a secondary third-party data center. This is correct. This is a functional requirement because it defines what the solution must include - a staging environment located in a specific secondary data center. It's a capability or structural requirement of the VCF deployment, dictating a functional aspect of the system.

Option E: REQ05 - Planned maintenance must be performed outside the hours of 8 AM to 8 PM GMT. This is a non-functional requirement. It's an operational constraint on when maintenance occurs, affecting availability and manageability, not a specific function the system must perform.

Conclusion: The two functional requirements are REQ01 (A) and REQ04 (D). They define what the VCF solution must do (handle transactions, include a staging environment), aligning with VMware's design methodology for functional specifications.

References:

VMware Cloud Foundation 5.2 Planning and Preparation Guide (Section: Functional vs. Non-Functional Requirements)
VMware Cloud Foundation 5.2 Architecture and Deployment Guide (Section: Requirements Classification)

NEW QUESTION # 71

During the requirements gathering workshop for a new VMware Cloud Foundation (VCF)-based Private Cloud solution, the customer states that the solution must:

- * Provide a single interface for monitoring all components of the solution.
- * Minimize the effort required to maintain the solution to N-1 software versions.

When creating the design document, under which design quality should the architect classify these stated requirements?

- **A. Manageability**
- B. Recoverability
- C. Availability
- D. Performance

Answer: A

NEW QUESTION # 72

When designing for availability across multiple availability zones, which design decision is essential for VMware Cloud Foundation?
Response:

- A. Distributing the network infrastructure across zones for resilience
- B. Using a single vCenter for all availability zones to ensure centralized management
- C. Limiting the storage replication to a single data center to minimize overhead
- **D. Ensuring high-speed interconnectivity between zones through a dedicated backbone network**

Answer: D

NEW QUESTION # 73

Which two operations are managed by VMware Cloud Foundation Lifecycle Manager?

(Choose two)

Response:

- A. Automating the deployment of NSX
- B. Managing software upgrades
- C. Creating and managing VMs
- D. Backing up VMware Cloud Foundation components

Answer: A,B

NEW QUESTION # 74

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

Answer: C,E

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 AZs. A 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:

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