

➤ **Vendor: VMware**

➤ **Exam Code: 2V0-13.25**

➤ **Exam Name: Designing and Implementing a Microsoft Azure AI Solution**

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#### QUESTION 1

Which configuration should the architect recommend as part of the design of a VMware Cloud Foundation (VCF) solution to ensure optimal performance in a multi-tenant environment?

- A. Use a single large datastore for all tenants to simplify management.
- B. Configure all workloads to operate on a single ESXi host to minimize network latency.
- C. Implement vSAN with tiered storage policies to ensure high I/O performance and low latency for tenant workloads.
- D. Allow an unlimited number of virtual machines per host to consume all available resources.

**Answer: C**

#### Explanation:

In a multi-tenant environment, isolation, predictable performance, and scalability are critical. vSAN with tiered storage policies enables the architect to define performance tiers (e.g., RAID-1 for critical workloads, RAID-5/6 for capacity-efficient workloads). This aligns with the need for low latency and high IOPS for tenant workloads, without oversubscribing or compromising performance. Options A and D disregard tenant performance and isolation, potentially leading to noisy neighbor issues. Option B reduces availability and scalability and is contrary to best practices.

#### QUESTION 2

An architect is documenting the design for a new VMware Cloud Foundation (VCF) solution and makes the following design decision:

Two vSphere clusters will be deployed within the single VI workload domain.

What statement should the architect include as an implication of this design decision?

- A. If the solution needs to be scaled at a future date, additional VI workload domains can be deployed.
- B. Deploying multiple clusters in the single VI workload domain reduces the number of vCenter Server instances that must be managed.
- C. Deploying multiple clusters within the single VI workload domain meets the requirement to segregate Production and Development workloads.
- D. All clusters within the single VI workload domain must use vSAN as their principal storage type.

**Answer: B**

#### Explanation:

In VMware Cloud Foundation, each VI workload domain is backed by a single vCenter Server instance. By deploying multiple clusters within the same VI workload domain, the architect can support multiple use cases (e.g., separating prod/dev), without provisioning new vCenters. This design reduces management overhead and operational complexity. However, if stricter separation is needed (e.g., multi-tenancy or lifecycle independence), separate workload domains may be more suitable. While vSAN is the default, it's not mandatory unless vSAN Ready Nodes are used for bring-up.

#### QUESTION 3

An architect has made an assumption that existing support staff are adequately skilled to operate the proposed infrastructure design. The risk associated with this assumption would be that existing support staff are inadequately skilled to operate the proposed infrastructure design. How would the architect mitigate the risk?

- A. Hire additional support staff with the same skillsets to add more support capacity.
- B. Allocate the necessary time and budget to train existing support staff on the necessary skills required to operate.
- C. Complete a skills assessment of the existing support staff to identify the skill gap.
- D. Engage a third-party company to deploy and configure the proposed solution.

**Answer: B**

#### Explanation:

The correct mitigation for a skills-based risk is to bridge the gap through training and upskilling. Providing time and budget for training ensures that existing staff can competently support the solution and aligns with long-term sustainability of the environment. Option A does not address the skills gap, just adds capacity. Option C is a risk identification tool, not a mitigation step. Option D outsources the issue, which contradicts the goal of internal capability development.

#### QUESTION 4

As part of a design for a VMware Cloud Foundation (VCF) solution, an architect has documented the following dependencies and constraints:

CONS001 - Internet access will not be permitted from anywhere within the VCF solution.

CONS002 - The password must not be stored in plain text anywhere within the VCF solution.

DEP001 - The customer must make the required VCF binaries accessible to the VCF Installer appliance during the deployment phase.

Which design decision should the architect include in the design for the download of the VCF binaries?

- A. The VCF Installer appliance will be configured to connect to an online depot.
- B. The VCF Installer appliance will be configured to connect to an offline depot.
- C. The Bundle Transfer Utility will be used on the VCF Installer appliance.
- D. The VCF Download Tool will be used on the VCF Installer appliance.

**Answer: B**

#### Explanation:

Due to the explicit constraint that no internet access is permitted, the VCF Installer cannot connect to an online depot. Instead, the architect must use the offline depot model, where binaries are downloaded externally and made accessible locally within the VCF environment (e.g., using a local web server). This setup aligns with VMware's "air-gapped" deployment guidance for VCF environments with strict security postures.

#### QUESTION 5

As part of the VMware Cloud Foundation (VCF) logical design, the architect has determined that the VCF Private Cloud will encompass multiple VCF instances contained within a single VCF Fleet. The architect documented the following requirements when using VCF Operations:

- Monitoring downtime must be minimized.
- Alerting downtime must be minimized.

Which design decision supports these requirements?

- A. Deploy two VCF Operations instances and configure the Aggregator Management Pack.
- B. Deploy VCF Operations using the Simple model with Collector nodes at remote sites.
- C. Deploy VCF Operations using the High Availability model with Collector nodes at remote sites.
- D. Deploy a single VCF Operations instance across a multi-VCF instance fleet.

**Answer: C**

#### Explanation:

The High Availability (HA) deployment model of VCF Operations ensures that both monitoring and alerting services are resilient to node failure. Deploying Collector nodes at remote sites enables local data collection, reducing WAN dependency and ensuring data is not lost during network interruptions.

This configuration aligns perfectly with the need to minimize monitoring and alerting downtime, which is critical in distributed, multi-instance environments.

#### QUESTION 6

An architect is responsible for designing a new VMware Cloud Foundation (VCF)-based Private Cloud solution. During the requirements gathering workshop with key customer stakeholders, the following information was captured:

The solution must ensure that all workloads running on the platform comply with the Payment Card Industry Data Security Standard (PCI-DSS).

When creating the design document, which design quality should be used to classify the stated requirements?

- A. Manageability
- B. Performance
- C. Recoverability
- D. Security

**Answer: D**

#### Explanation:

The requirement ensures data protection, secure access, encryption, auditing, and regulatory compliance--fundamental principles in cybersecurity. These attributes fall squarely within the design quality of Security, which concerns protecting confidentiality, integrity, and compliance. PCI-DSS compliance is about implementing security policies, encryption, access controls, monitoring, and auditing--all aspects of the Security design quality in VMware frameworks.

#### QUESTION 7

During a VMware Cloud Foundation (VCF) architectural design workshop, one of the stakeholders made the following comment:

"The company has just used the remaining budget to purchase eight vSAN Ready Nodes for this project."

How would the architect classify this statement within the conceptual model document?

- A. Requirement
- B. Risk
- C. Assumption
- D. Constraint

**Answer: D**

#### Explanation:

This statement expresses a financial limit - "Remaining budget" - constraining future expenditures on hardware. This is clearly a constraint, as it restricts the design options (e.g., can't procure new hardware). In the VMware Conceptual Model framework, constraints are factors that limit design choices without introducing risk or goal definitions.

#### QUESTION 8

As part of an initial stakeholder meeting, one of the stakeholders has stated the following:

The initial design must be completed within the next 3 months so that hardware can be ordered within the current budget cycle.

How would the architect classify and record this statement?

- A. A constraint
- B. A risk
- C. An assumption
- D. A requirement

**Answer: A**

#### Explanation:

This is a constraint, as it defines a non-negotiable time limit imposed by the customer's budgeting timeline. It restricts the design phase's schedule and deliverables. In VMware conceptual modeling, timing constraints are explicitly captured as constraints rather than requirements or assumptions.

#### QUESTION 9

A cloud architect is designing a VMware Cloud Foundation (VCF) Automation solution for an organization. The design must fulfill the following requirements:

- The design must minimize provider infrastructure lifecycle tasks.
- The design must minimize infrastructure management overhead.
- Each tenant must have isolated compute infrastructure.

Which of the following deployment models best meets these requirements?

- A. Single VCF instance with dedicated Workload Domains per tenant
- B. Consolidated VCF deployment per tenant
- C. Dedicated VCF instances per tenant in a Standard Architecture
- D. Shared Workload Domain for tenants

**Answer: A**

#### Explanation:

A single VCF instance with dedicated Workload Domains per tenant strikes the balance between operational efficiency and isolation. It reduces lifecycle tasks since only one management domain must be maintained, while each tenant having a dedicated workload domain ensures isolation of compute resources. This meets all three stated requirements effectively: lifecycle simplicity, minimal overhead, and tenant-specific compute separation.

#### QUESTION 10

As a part of designing the VMware Cloud Foundation (VCF) Operations deployment, the architect must ensure that VCF Operations is capable of monitoring the customer's infrastructure made up of a central datacenter and multiple remote sites in different countries. During a design workshop, the following requirements were identified:

REQ 001: Corporate IT users must be able to review performance, alerts, and capacity details from a single management point.

REQ 002: The monitoring solution must support local data collection at remote sites to prevent data loss from unstable WAN connections.

REQ 003: The monitoring solution must comply with local data sovereignty regulations.

Which deployment model fulfills all design requirements?

- A. Single VCF fleet with Cloud Proxies in each remote site
- B. Each remote site will be its own VCF fleet.
- C. All remote sites will be a single VCF fleet.
- D. A single fleet with multiple VCF instances

**Answer: A**

**Explanation:**

Deploying a single VCF Operations instance (central management point) while placing Cloud Proxies or Collector nodes at remote sites enables local data ingestion. This ensures remote-site resilience (REQ 002), centralized visibility for IT users (REQ 001), and data sovereignty compliance because data can remain within local jurisdictions (REQ 003). This model aligns with VMware's recommended best practice for multi-site monitoring with minimal duplication of management infrastructure.

#### QUESTION 11

An architect is responsible for designing a new VMware Cloud Foundation (VCF)-based Private Cloud solution. During the requirements gathering workshop with key customer stakeholders, the following information was captured:

The solution must ensure all components meet a software version of N-1.

When creating the design document, which design quality should be used to classify the stated requirements?

- A. Recoverability
- B. Manageability
- C. Security
- D. Availability

**Answer: C**

**Explanation:**

The requirement to maintain software at N-1 versioning ensures that all components in the system maintain the most recent stable version of software while avoiding risks associated with "bleeding-edge" updates. This is a Security design quality because N-1 compliance mitigates exposure to vulnerabilities that might be present in older, unsupported versions. Additionally, VMware Cloud Foundation emphasizes maintaining the full stack within a supported compatibility matrix, aligning with security and compliance frameworks.

#### QUESTION 12

An architect is responsible for designing a new VMware Cloud Foundation (VCF)-based Private Cloud solution. During the requirements gathering workshop with key customer stakeholders, the following information was captured:

- In the event of a disaster affecting the primary site, all tier 1 production services must be restored to the secondary site within 1 hour.

- In the event of a disaster affecting the primary site, all tier 3 production services must be restored to the secondary site within 8 hours.

When creating the design document, which design quality should be used to classify the stated requirements?

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

**Answer: A**

**Explanation:**

These are classic Recoverability metrics. The Recovery Time Objective (RTO) and Recovery Point Objective (RPO) directly relate to how fast and how much data can be recovered after a failure or disaster event. The architect must ensure the VCF deployment includes recovery mechanisms, such as stretched clusters or backup/replication technology, that meet these defined RTO/RPO targets.

#### QUESTION 13

As part of the VMware Cloud Foundation (VCF) logical design, the architect documented the following requirement:

The solution must be able to support latency-sensitive workloads.

Which two physical design decisions will meet this performance requirement in the workload domain? (Choose two.)

- A. Intel TDX and AMD's SEV-SNP integration
- B. Advanced Memory Tiering with NVMe: Enabled
- C. vSAN Global Deduplication: Enabled
- D. NSX Enhanced Data Path: Enabled
- E. vSAN Deep Snapshots: Enabled

**Answer: BD**

**Explanation:**

Advanced Memory Tiering with NVMe optimizes memory performance, essential for workloads that are latency-sensitive. NSX Enhanced Data Path (EDP) is specifically designed for high-performance, low-latency packet processing, critical in real-time applications. Options like Global Deduplication or Deep Snapshots can negatively impact latency due to additional processing overhead.

#### QUESTION 14

During the design workshop, the customer stated the following requirement:

The solution must comply with the organization's security standards.

Which two design decisions should be included in the logical design for the workload domain? (Choose two.)

- A. Use large-size NSX Edge virtual appliances to account for the additional firewall rules.
- B. Enable VM Monitoring for each workload within the cluster.
- C. Enable Inter-SR iBGP routing.
- D. Use an SHA-2 algorithm or higher when signing certificates.
- E. Establish an operations practice to capture and update the thumbprint of the NSX Local Manager certificate on the NSX Global Manager every time the certificate is updated.

**Answer:** DE

**Explanation:**

SHA-2 or higher certificate signing ensures cryptographic compliance with modern security standards. Maintaining updated certificate thumbprints is a crucial operational security task to prevent man-in-the-middle attacks between NSX managers. These measures directly align with security hardening guidance outlined in the VCF design practices.

#### QUESTION 15

The architect documented a requirement for 99.95% high availability to meet the customer's resiliency needs. Which two physical design decisions will help meet this requirement in the management domain? (Choose two.)

- A. Management Port Group: Route based on physical NIC load
- B. Host Overlay DHCP Scope Lease: 14 Days
- C. Physical Switch MTU: 9000
- D. vSAN Cache Tier Sizing: 800GB
- E. Host isolation response: Power Off and restart VM

**Answer:** AC

#### QUESTION 16

An architect has been tasked with designing a new VMware Cloud Foundation (VCF) solution. The following design decisions were documented after requirements gathering workshops with the customer:

- Deploy a VCF Fleet into each of the DC1 and DC2 datacenters.
- Deploy two VCF instances (VCF1 and VCF2) into each VCF Fleet.
- Use the existing, supported third-party solution to provide Multifactor Authentication (MFA) for users accessing the VCF components.

The architect also documented the following information from the workshops:

- The customer wants to minimize the risk of a single operational task performed by an administrator impacting multiple components.
- The customer wants to avoid single points of failure by using high availability architectures.

Which two design decisions should the architect include for the authentication approach based on the information provided? (Choose two.)

- A. Use the external VCF Identity Broker model.
- B. Deploy a shared VCF Identity Broker for all VCF Instances across all VCF Fleets.
- C. Deploy a dedicated VCF Identity Broker for each VCF instance within a VCF Fleet.
- D. Deploy a shared VCF Identity Broker for all VCF instances within a VCF Fleet.
- E. Use the embedded VCF Identity Broker model.

**Answer:** AC

**Explanation:**

To support MFA and integration with third-party authentication, the external VCF Identity Broker model (VIDB) is required. The external model is designed to interface with advanced identity providers supporting MFA, which the embedded model cannot accommodate. Furthermore, to avoid shared components across multiple VCF instances and to reduce the impact of operational errors (e.g., configuration or certificate issues), a dedicated Identity Broker per VCF instance ensures complete separation and fault isolation.

This approach aligns with VMware's recommended high availability and security practices for VCF 9.0. It ensures the MFA requirement is met and operational risks are minimized.

#### QUESTION 17

An architect is tasked with designing a VMware Cloud Foundation (VCF) solution for a financial services organization to modernize its core banking applications and high-frequency trading systems using vSAN.

The following requirements were gathered during the customer workshops:

- For critical transactional database workloads, the solution must provide low-latency and high performance storage to support processing of real-time financial transactions.
- For all non-critical workloads, the solution must provide the most efficient capacity utilization.

Which three design decisions would the architect make to meet the requirements for the workload domain cluster? (Choose three.)

- A. Configure vSAN Policies (RAID-5) for all critical transactional database workloads.
- B. Deploy a vSAN OSA (All-NVMe) cluster with a minimum of 4 nodes.
- C. Deploy a vSAN ESA cluster with a minimum of 6 nodes.
- D. Configure vSAN Policies (RAID-5/6) for all non-critical workloads.
- E. Configure vSAN Policies (RAID-1) for all workloads.
- F. Configure vSAN Policies (RAID-1) for all critical transactional database workloads.

**Answer:** CDF

**Explanation:**

RAID-1 policies offer low latency and high performance, ideal for critical workloads such as transactional databases.

RAID-5/6 provides efficient capacity usage, which is preferred for non-critical workloads. VMware recommends the vSAN Express Storage Architecture (ESA) with 6 nodes minimum for performance and redundancy.

The ESA supports better performance with fewer overheads than OSA. VMware Cloud Foundation 9.0 promotes using vSAN ESA for mission-critical workloads when latency is a priority.

#### QUESTION 18

An architect is responsible for designing a VMware Cloud Foundation (VCF)-based solution for a customer. During a discovery workshop, the following requirements were stated by the customer:

- All applications/workloads designated as business critical have a Recovery Point Objective (RPO) of 1 business hour.
- The infrastructure components of the VCF solution must have a Recovery Time Objective (RTO) of 4 business hours.

In the context provided, what does the RTO determine?

- A. The maximum tolerable amount of time allowed before an application/service should be recovered to a usable state
- B. The maximum amount of data loss that can be tolerated
- C. The minimum tolerable amount of time allowed before an application/service should be recovered to a usable state
- D. The minimum amount of data loss that can be tolerated

**Answer:** A

**Explanation:**

RTO (Recovery Time Objective) defines how quickly a system/service must be restored after a disruption. In this scenario, the infrastructure components should be fully functional within 4 hours. This contrasts with RPO, which measures data loss tolerance. RTO focuses on downtime tolerance. VMware Cloud Foundation documentation on BCDR (Business Continuity and Disaster Recovery) explicitly defines these metrics during availability planning.

**QUESTION 19**

An architect is designing a VMware Cloud Foundation (VCF)-based solution. The company policy mandates that all VCF patches and upgrades must be tested in a development environment before applying to production. Which VCF construct design decision would comply with this mandate?

- A. Deploy two VCF vSphere Clusters within a VCF Domain.
- B. Deploy two VCF Instances within a VCF Fleet.
- C. Deploy two VCF Domains within a VCF Instance.
- D. Deploy two VCF Fleets within a VCF Private Cloud.

**Answer: B**

**Explanation:**

Deploying two VCF Instances allows isolation between environments. One instance can serve as development/test and the other as production. This separation enables patch/upgrade validation without impacting production. VCF architecture supports managing multiple VCF instances in a Fleet for centralized visibility and policy enforcement. VMware explicitly recommends separating environments for lifecycle testing in environments with strict change control policies.

**QUESTION 20**

An architect is designing a VMware Cloud Foundation (VCF) deployment to meet the following design requirements:

- Tenants need dedicated external network access.
- The number of NSX Edge clusters should be minimized.

To fulfill these requirements, the architect made a design decision to use a Workload Networking VPC with Full Services Model. Which additional design decision should be considered as part of the logical network design?

- A. Deploy the maximum number of 10 NSX Edges into a single Edge cluster.
- B. Install two NSX bare metal Edges with multiple physical interfaces to separate tenants.
- C. Use Virtual Routing and Forwarding (VRF) lite to create a separate VRF T0 Gateway for each tenant.
- D. Use NSX Federation providing a dedicated NSX instance for each tenant.

**Answer: C**

**Explanation:**

The NSX VPC Full Services Model allows tenant isolation using VRF-lite, enabling independent routing tables within the same Tier-0 gateway. This ensures dedicated external access without requiring a separate NSX Edge cluster per tenant, thereby minimizing the number of Edge clusters. VMware VCF 9.0 recommends VRF Lite for multi-tenant environments with centralized Edge clusters and segmented routing needs.

**QUESTION 21**

Which statement would the architect document as a design decision within the logical design?

- A. Service Levels will align with the defined Business Impact Analysis findings.
- B. The solution must provide the ability to patch an existing template.
- C. The VMware Distributed Resource Scheduler (DRS) latency sensitivity value will be set to high for the workload cluster.
- D. vSphere High Availability (HA) will be enabled.

**Answer: C**

**Explanation:**

Logical design decisions specify how features are configured to meet conceptual requirements. In VMware Cloud Foundation logical design, tuning VMware Distributed Resource Scheduler (DRS) parameters such as latency sensitivity for workload clusters is explicitly part of logical design because it directly impacts workload performance and cluster behavior. Options A and B are conceptual or operational, and option D is a standard best practice at the physical design layer. VMware documents emphasize that logical design choices define how features (like DRS, HA, and vSAN policies) are implemented.

**QUESTION 22**

A large financial institution is designing a VMware Cloud Foundation (VCF) solution. During the initial discovery meetings, the customer detailed the following requirements

- Management of the physical network environment is handled by an outsourced team.
- The VMware Administration team cannot re-configure the physical network.
- The environment is configured to use Link Aggregation.

How does the information provided impact the overall design?

- A. NIC teaming for Virtual Standard Switch (vSS) must be configured.
- B. LACP fallback must be configured.
- C. Link Aggregation cannot be used for Workload Domains.
- D. Link Aggregation cannot be used in the Management Domain.

**Answer: B**

**Explanation:**

VCF 9.0 design documentation specifies that LACP-based link aggregation between ESXi and ToR switches is supported only when LACP fallback mode is configured, ensuring a link can pass traffic before LACP PDUs are received. Since the VMware team cannot change physical networking and aggregation is in place, the design must mandate LACP fallback to maintain compatibility and connectivity resilience. Other answers are incorrect because VCF supports link aggregation in both management and workload domains if properly configured.

**QUESTION 23**

A customer is designing a multi-site VMware Cloud Foundation (VCF) and vSAN Data Protection (DP) architecture to ensure business continuity. The customer's support team must validate the failover and recovery processes before being allowed to deploy into production. Which two validation activities should be included in the strategy to meet the objective? (Choose two.)

- A. Conduct recovery plan testing annually, as frequent testing may introduce instability in DR environments.
- B. Assess the impact of failover scenarios on application dependencies and inter-site connectivity.
- C. Configure recovery plans based on generic VMware best practices rather than workload-specific requirements to decrease the architecture complexity.
- D. Perform planned and unplanned failover tests in a controlled environment to validate recovery time objectives.
- E. Configure vSphere HA and DRS features to manage disaster recovery automatically, eliminating

the need for additional validation.

**Answer:** BD

**Explanation:**

Validating a BCDR strategy in VCF with vSAN DP requires both impact analysis and active testing:

- B. Assess the impact of failover scenarios ?Ensures application dependencies, such as inter-site routing, DNS, and external services, are validated against failover scenarios. This prevents unexpected downtime due to overlooked dependencies.
- D. Planned and unplanned failover tests ?VMware best practices emphasize testing both scheduled and unexpected recovery workflows to validate RTOs and confirm operational procedures.

**QUESTION 24**

An architect is tasked to plan for an upgrade of an existing vSphere only deployment utilizing vSAN to VMware Cloud Foundation (VCF). Which three new infrastructure components are required for the upgrade? (Choose three.)

- A. NSX
- B. SDDC Manager
- C. VCF Identity Broker
- D. VCF Operations
- E. vSphere Supervisor

**Answer:** ABC

**Explanation:**

SDDC Manager is required to deploy, manage, and automate the VCF lifecycle.

NSX provides network virtualization and is mandatory in VCF for overlay networking.

VCF Identity Broker integrates existing identity sources with VCF, supporting authentication and single sign-on.

**QUESTION 25**

During a requirements gathering workshop, the customer has provided a list of business and technical requirements. Which requirement should be classified as a business requirement?

- A. The solution needs to grow by 30% over the next three years.
- B. The solution must consider security and resiliency to ensure continuity.
- C. The solution must provide no Single Point of Failure (SPOF).
- D. The solution should reduce operational costs.

**Answer:** D

**Explanation:**

VMware Cloud Foundation architecture uses the RACR framework (Requirements, Assumptions, Constraints, Risks) to classify inputs:

Business requirements describe high-level outcomes the business wants to achieve, often focusing on cost, efficiency, or customer satisfaction.

Technical requirements define how infrastructure should behave to meet performance, resiliency, or security needs.

Among the given options:

A (growth by 30%) and C (no SPOF) are technical requirements.

B (security and resiliency) is also a technical requirement.

D (reduce operational costs) directly aligns with business goals, making it the correct business requirement.