

# VMware

## Exam Questions 2V0-13.25

VMware Cloud Foundation 9.0 Architect



#### NEW QUESTION 1

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

? CONSO01 - 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**

#### NEW QUESTION 2

As part of the initial design workshop, one of the customer stakeholders has stated the following:

- All Virtual Machines must be encrypted.

How would the architect classify this statement?

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

**Answer: C**

#### NEW QUESTION 3

An architect is responsible for designing a VMware Cloud Foundation (VCF)-based private cloud. During the design requirements gathering workshop, the following information was captured:

- The solution must capture events from all infrastructure components of the VCF fleet.
- The solution must provide a single pane of glass management interface for troubleshooting, alerting, and monitoring using metrics, events, and flows.
- The solution must meet a 99.9% Service Level Agreement for Availability.

Which three design decisions should the architect make to meet the stated requirements? (Choose three.)

- A. Configure VCF Operations for logs to capture events from only VCF Management components.
- B. Configure the integration for VCF Operations and VCF Automation.
- C. Deploy VCF Operations for logs in a Simple model.
- D. Configure the integration for VCF Operations and VCF Operations for logs.
- E. Configure VCF Operations for logs to capture events from all VCF infrastructure components.
- F. Deploy VCF Operations for logs in a High Availability model.

**Answer: BDF**

#### NEW QUESTION 4

An architect is designing the network model for a new VMware Cloud Foundation (VCF) solution. During the requirements gathering phase, the customer stated that the VCF solution must comply with the organization's security policy for traffic separation. The customer provided the architect with the following information from the policy:

- The physical network architecture is divided into multiple security zones.
- Traffic is not permitted to traverse between the zones with the exception of pre-approved monitoring tools.
- Physical servers may not be connected to multiple zones via a single network interface.
- Management and Storage traffic must be kept within network zone 1.
- Workload traffic must be kept within network zone 2.

The architect makes a design decision to use two vSphere Distributed Switches per cluster for both the Management and VI Workload domains.

Which two additional design decisions should the architect include in the virtual networking design for the separation of traffic between the vSphere Distributed Switches? (Choose two.)

- A. Configure one vSphere Distributed Switch for ESX Management, Storage, and vMotion traffic.
- B. Configure one vSphere Distributed Switch for all storage traffic.
- C. Configure one vSphere Distributed Switch for ESX Management, Storage, vMotion traffic and NSX - Host and Edge TEP/Edge Uplinks.
- D. Configure one vSphere Distributed Switch for all workload traffic and all NSX - Host and Edge TEP/Edge Uplinks.
- E. Configure one vSphere Distributed Switch for all NSX - Host and Edge TEP/Edge Uplinks.

**Answer: AD**

#### NEW QUESTION 5

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 support running 50,000 workloads concurrently across all sites.
- The solution must support the concurrent deployment of up to 10 workloads.

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

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

**Answer: C**

#### NEW QUESTION 6

An organization is designing a VMware Cloud Foundation (VCF) solution hosting a business-critical database. The application owners specified the following requirements:

- All workload domains will use vSAN for storage.
- A maximum acceptable data loss of 5 minutes (Recovery Point Objective (RPO) 5 minutes).
- An automated failover in case of a site outage where Recovery Time Objective (RTO) should not exceed 30 minutes.
- The performance impact should be minimized.

Which design approach aligns with the application's requirement?

- A. Configure backup-based recovery with backup jobs scheduler set to every 30 minutes.
- B. Use asynchronous replication with snapshots taken every 30 minutes to reduce storage impact.
- C. Use vSAN stretched cluster.
- D. Use synchronous replication on the storage array level.

**Answer: C**

#### NEW QUESTION 7

While designing a solution, an architect is tasked with defining limits for a vSphere Namespace.

What three limits are available? (Choose three.)

- A. The amount of storage
- B. The amount of containers
- C. The amount of services
- D. The amount of memory
- E. The amount of CPU

**Answer: ADE**

#### NEW QUESTION 8

An architect is designing a VMware Cloud Foundation (VCF) fleet. The following information has been provided by the customer:

- ? Due to budget constraints, the solution must utilize the existing server hardware.
- ? The existing server hardware consists of server models from the same vendor but different generations.
- ? There are ten servers available for use in this solution.
- ? Management and Business workloads should be hosted in different clusters.

What design decision should the architect make for the lifecycle management of the solution based on this information?

- A. Use a single vSphere Lifecycle Manager composite image for the management domain cluster.
- B. Use separate vSphere Lifecycle Manager composite images for the management and workload domain clusters.
- C. Use vSphere Lifecycle Manager baselines for the management domain cluster.
- D. Use a single vSphere Lifecycle Manager composite image for the management and workload domain clusters.

**Answer: B**

#### NEW QUESTION 9

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: ABE**

#### NEW QUESTION 10

Which VMware Cloud Foundation (VCF) Storage Model can be deployed to scale storage capacity independent of compute and network?

- A. vSAN Compute Cluster Storage Model
- B. vSAN ESA Storage Model
- C. vSAN Capacity Cluster Model
- D. vSAN ESA Storage Cluster Model

**Answer: A**

#### NEW QUESTION 10

An architect is responsible for designing a VMware Cloud Foundation (VCF)-based solution for a customer. The customer has the following requirement:

- There should be no single points of failure within the solution.

To comply with the customer requirement, the architect has decided to include physical NIC teaming for all ESX servers in the design.

When documenting this design decision, which consideration should the architect make?

- A. Embedded NICs should not be used for NIC teaming.
- B. Each NIC team must include NICs from the same physical NIC Card.
- C. Each NIC team must include NICs from different physical NIC Cards.
- D. Only 10GbE NICs should be used for NIC teaming.

**Answer: C**

**NEW QUESTION 13**

An architect is working with an organization on the creation of a new VMware Cloud Foundation (VCF) Private Cloud. The organization has provided the following business objectives:

- ? Reduce costs of duplicate systems.
- ? Eliminate risks of unsupported platforms.
- ? Reduce public cloud costs.
- ? Eliminate risks from poor documentation.

Use cases: Migration, Containerization, Centralization & Consolidation.

When considering these objectives and use cases, what should the architect include in the design documentation as a part of the Conceptual Model?

- A. A constraint that the solution must be accessible via a HTTPS GUI to all relevant areas of the business.
- B. A requirement that the solution will provide support for provisioning and managing workloads based on virtualization and containerization technologies.
- C. An assumption that a complete mapping of application dependencies is not available.
- D. A risk that the solution may not support the migration of containerized workloads.

**Answer: B**

**NEW QUESTION 14**

A VMware Cloud Foundation (VCF) architect is planning for the expansion of an existing VCF instance.

The existing VCF instance is deployed with a single workload domain. The number of ESXi hosts has grown to the maximum number the existing vCenter can support.

Which design decision would the architect need to make to allow the existing VCF Instance to add more ESXi hosts?

- A. Deploy a second vCenter server appliance within the existing workload domain
- B. Deploy a second workload domain within the existing VCF Instance
- C. Deploy a second cluster within the existing vCenter
- D. Deploy a second VCF Instance within the existing VCF Fleet

**Answer: B**

**NEW QUESTION 18**

What open source project does vSphere Supervisor use to automate the lifecycle management of VMware Kubernetes Service (VKS) clusters?

- A. Cluster API
- B. Grafana
- C. Contour
- D. Kubeadm

**Answer: A**

**NEW QUESTION 23**

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:

- For critical transactional database workloads, the solution must provide low-latency and high performance storage.
- 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**

**NEW QUESTION 25**

An architect is designing for a greenfield VMware Cloud Foundation (VCF) solution. This would be the first VCF Fleet in the VCF solution, and the customer would like to start with a minimal footprint with the option to scale up and out later.

Which VCF Operations deployment model should the architect choose?

- A. Advanced
- B. High Availability
- C. Simple
- D. Standard

**Answer: C**

**NEW QUESTION 26**

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

- The service catalog solution must meet a minimum availability SLA of 99.9%.
- The performance of the service catalog solution must not be impacted by maintenance activities or a single physical ESXi host failure.

During the logical design phase of the project, the following design decisions were made:

• The solution will deploy VCF Automation using the highly available deployment model. Which two corresponding physical design decisions should the architect make to meet the stated requirements? (Choose two.)

- A. The solution will configure the external load balancer to send all traffic to the native Kubernetes load balancer.
- B. The solution will deploy three VCF Automation appliances using the small size.
- C. The solution will create a VM-host affinity rule to ensure all nodes of the VCF Automation cluster are located on the same ESXi host.
- D. The solution will create a VM-host anti-affinity rule to ensure all nodes of the VCF Automation cluster are located on different ESXi hosts.
- E. The solution will deploy an external load balancer to replace the native load balancer.

**Answer: DE**

#### NEW QUESTION 28

An architect is expanding an existing private cloud infrastructure based on VMware Cloud Foundation (VCF). The requirement is to deploy two additional instances of VCF at two separate datacenters within the existing private cloud with minimal additional footprint.

- Datacenter A is 90 miles from the existing VCF fleet instance with a network round trip time of 90ms.
- Datacenter B is 120 miles from the existing VCF fleet instance with a network round trip time of 120ms.

Which design decision would meet the requirement for this expansion?

- A. Deploy two additional VCF instances within the existing VCF fleet, one each in datacenters A and B.
- B. Deploy two additional VCF fleets, one for each VCF instance in datacenters A and B.
- C. Deploy an additional VCF fleet in datacenter A and an additional VCF instance within the existing VCF fleet in datacenter B.
- D. Deploy an additional VCF fleet in datacenter B and an additional VCF instance within the existing VCF fleet in datacenter A.

**Answer: D**

#### NEW QUESTION 31

An architect has compiled a list of design choices following a design workshop with the business stakeholders. Which statement represents a logical design decision?

- A. Synchronous data replication will be used to meet the stated Recovery Point Objective (RPO) between site A and B.
- B. Users must experience application availability in under 2 seconds.
- C. Sites A and B will each have a /16 subnet for their networks.
- D. Users must connect to the application servers via a shared Global Load Balancer.

**Answer: A**

#### NEW QUESTION 34

Requirements and constraints:

- ? 3 datacenters within 1 mile radius, high-speed LAN connectivity
- ? Private cloud must be hosted at HQ datacenter
- ? Must protect against datacenter loss with no data loss (RPO = 0)

Which design model meets these requirements?

- A. VCF fleet with disaster recovery on a multi-rack cluster model
- B. VCF fleet with disaster recovery on a single-rack cluster model
- C. VCF fleet with fault domains on a multi-rack cluster model
- D. VCF fleet with fault domains on a stretched cluster model

**Answer: D**

#### NEW QUESTION 35

During a design workshop, the security team provides the following requirement for the VMware Cloud Foundation (VCF) Automation deployment:

- ? All Virtual Machine images must be reviewed and vetted by the security team prior to consumption.

Which Content Library type supports the requirement?

- A. Subscribed Content Library
- B. Tenant-managed Content Library
- C. Local Content Library
- D. Provider-managed Content Library

**Answer: D**

#### NEW QUESTION 36

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**

#### NEW QUESTION 38

An architect is gathering business requirements for a new VMware Cloud Foundation (VCF) solution from the customer stakeholders and subject matter experts. Which two factors should the architect discuss with the customer to determine any potential impact on the business requirements? (Choose two.)

- A. Service-level agreements (SLAs)
- B. Product versions
- C. Organizational structure
- D. Average virtual machine size
- E. Storage capacity

**Answer:** AC

#### NEW QUESTION 41

A customer is deploying VMware Cloud Foundation (VCF) in an enterprise environment. During a series of workshops with stakeholders, the following requirements were identified:

- ? The network solution must be capable of complete logical isolation.
- ? The network solution must be capable of supporting independent upgrade cycles for network stacks.
- ? The network solution must be capable of tenant-specific customization of NSX configurations.

The architect has made the following design decisions:

- ? The solution will consist of a single VCF instance.
- ? The solution will include a management domain and two workload domains.

Based on the scenario, which additional design decision meets all of the stated requirements?

- A. Deploy NSX only in the management domain and use VLAN-backed segments in the workload domains.
- B. Use a global NSX Federation configuration across workload domains.
- C. Use a shared NSX instance across both workload domains.
- D. Deploy a dedicated NSX instance per workload domain.

**Answer:** D

#### NEW QUESTION 44

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.
- All hosts must use Link Aggregation.
- The storage environment is disaggregated.
- NFS will be used as principal storage.

The customer provided the bill-of-materials for the physical servers being purchased. Each server will have four 25 GbE physical NICs: two connected to the network fabric for Management, vMotion, and virtual machine traffic; and two connected to the storage fabric hosting the NFS server.

How does the information provided impact the overall design?

- A. Link Aggregation cannot be used in the Workload Domain.
- B. NIC teaming for Virtual Standard Switch (vSS) must be configured.
- C. Multiple Link Aggregation Groups are not supported.
- D. Link Aggregation cannot be used in the Management Domain.

**Answer:** D

#### NEW QUESTION 45

An architect is responsible for the design of a VMware Cloud Foundation (VCF) Fleet and the following risk has been identified:

- RISK001: There is a risk that frequent infrastructure design changes may break Disaster Recovery (DR) plans and Service Level Objectives.

What should the architect suggest to mitigate this risk?

- A. Setup monitoring & alerting against defined infrastructure service level objectives.
- B. Develop a process to review and update DR plans between changes and schedule monthly end-to-end DR tests.
- C. Limit infrastructure design change frequency to a maximum of once a month.
- D. Configure VM replication with recovery point objective of 5 minutes or less for all workloads from the primary to DR site.

**Answer:** B

#### NEW QUESTION 46

An architect had been given a constraint to use an existing storage array to support the virtual infrastructure design project.

The architect documents the following:

? Assumption 01: The existing storage array has sufficient capacity and performance to support the intended workloads.

? Risk 01: There is a risk that the performance and capacity of the existing storage array may not be sufficient for the solution. How would the architect mitigate the risk?

- A. Ensure that the customer allocates budget for new hardware in case the risk is realized.
- B. Setup a RAID mirror configuration on the existing storage array for redundancy.
- C. Ignore the constraint and design the solution using VMware vSAN Express Storage Architecture (ESA).
- D. Request for additional budget to purchase more Fibre Channel switches.

**Answer:** A

#### NEW QUESTION 51

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