

# VMware

## Exam Questions 2V0-13.25

VMware Cloud Foundation 9.0 Architect



#### NEW QUESTION 1

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**

#### NEW QUESTION 2

Requirement: The solution must include high security hardening levels to meet military compliance standards.

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

- A. The vSAN storage policy will be configured as Secondary Failures to Tolerate = 1.
- B. VCF Operations will be configured to renew the SSL certificate for vCenter Server per security policies.
- C. NTP will be configured to the internal NTP servers of 192.168.12.1 and 192.168.24.1.
- D. The advanced setting UserVars.SuppressShellWarning will be configured to 0 across all ESXi hosts.
- E. The certificate of the VI workload domain vCenter Server will be issued by RootCA.Military.Domain.Com.

**Answer: DE**

#### NEW QUESTION 3

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:

- ? REQ001: Corporate IT users must be able to review performance, alerts, and capacity details from a single management point.
- ? REQ002: The monitoring solution must support local data collection at remote sites to prevent data loss from unstable WAN connections.
- ? REQ003: 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**

#### NEW QUESTION 4

An architect is responsible for designing a new VMware Cloud Foundation (VCF)-based private cloud. During the discovery workshops, the following information was captured from key customer stakeholders:

? The private cloud will operate with three different monitoring levels: Approved infrastructure applications include: Microsoft IIS, SQL Server, MySQL, PostgreSQL, Tomcat Server, and Apache HTTPD

Each workload must subscribe to a monitoring level

Minimal management overhead is required for agent operations

Which two design decision should the architect make to meet the stated monitoring requirements? (Choose two.)

- A. Configure the Service Discovery for all workloads that subscribe to the Self-Managed service
- B. Deploy the Managed Telegraf Agent for all workloads that subscribe to the Fully Managed service
- C. Deploy the Managed Telegraf Agent for all workloads that subscribe to the OS Managed service
- D. Deploy the Managed Telegraf Agent for all workloads that subscribe Self-Managed service
- E. Deploy the Open Source Telegraf Agent for all workloads that subscribe to the Fully Managed service

**Answer: BC**

#### NEW QUESTION 5

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 6

Which four component areas are provided by a VMware Kubernetes Service (VKS) cluster?

- A. Identity federation, persistent logging, firewall services, and monitoring.
- B. Authentication, external storage, virtual machine networking, and DNS services.
- C. Authorization, backup services, VLAN segmentation, and DHCP.
- D. Authentication and authorization, storage integration, pod networking, and load balancing.

**Answer: D**

#### NEW QUESTION 7

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 8

During a requirements gathering workshop, several business and technical requirements were captured from the customer. Which requirement will be classified as a Business Requirement?

- A. The solution must provide the best end-user experience.
- B. The solution must allow the migration of legacy server infrastructure.
- C. The solution must consider security and resiliency to ensure business continuity.
- D. The solution must provide a component-level SLA of 99.9% or higher.

**Answer: A**

#### NEW QUESTION 9

Requirement: NSX VPC Full Services Model for single tenant, preventing BGP advertisements from being dropped due to loop detection. Which element should be considered in the physical network design?

- A. Adjust the default BGP timers.
- B. Use a unique, private BGP AS number for each Tier-0 gateway.
- C. Use iBGP as the routing protocol between the Tier-0 gateway and the physical network.
- D. Configure edge datapath interface to transport only TEP traffic.

**Answer: B**

#### NEW QUESTION 10

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 10

Existing environment:

? 3 vSphere clusters, 5 hosts each.

? Networking = vDS.

? Storage = NFSv3.

? Managed by single vCenter. Architect decides to create a new VCF fleet with a single VCF instance.

What design implication should be documented?

- A. NSX will be automatically deployed during the creation of the VCF fleet.
- B. The vCenter VM must be migrated to a standalone host before fleet creation.
- C. The clusters will be automatically configured to use vSAN storage before the creation of the fleet.
- D. The ESX hosts will be converted to use vSphere Lifecycle Manager baselines during the creation of the fleet.

Answer: B

#### NEW QUESTION 11

Requirement: Ensure all management components are redundant at the component level.  
Which design quality should classify this requirement?

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

Answer: C

#### NEW QUESTION 14

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

#### NEW QUESTION 15

When designing a backup and recovery solution for VKS clusters, which tool can be leveraged to back up and restore workloads?

- A. Site Recovery Manager
- B. Veeam
- C. Restic
- D. VMware Live Recovery

Answer: B

#### NEW QUESTION 20

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 25

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 28

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

#### NEW QUESTION 30

An architect is responsible for designing a VMware Cloud Foundation (VCF)-based private cloud for a customer. During the customer requirements gathering workshop, the customer has stated the following:

- ? All Platinum applications/services must have an availability SLA of 99.99%.
- ? All Gold applications/services must have an availability SLA of 99.9%.
- ? All Silver applications/services must have an availability SLA of 99%.
- ? The private cloud must have an availability SLA of 99.9%.

What should the architect recommend to meet the stated requirements?

- A. The private cloud must only be used to host Silver and Gold services.
- B. The private cloud SLA can only be met using multiple VMware Cloud Foundation instances configured as a single VCF Fleet.
- C. The Platinum service availability requirements must be met by the application.
- D. The Platinum service availability requirements must be met by configuring Proactive High Availability (HA) on the workload domain.

**Answer: C**

#### NEW QUESTION 34

Which statement defines the purpose of Technical Requirements?

- A. They define which goals and objectives can be achieved.
- B. They define what goals and objectives need to be achieved.
- C. They define which audience need to be involved.
- D. They define how the goals and objectives can be achieved.

**Answer: D**

#### NEW QUESTION 35

An architect is designing a solution with Istio Service Mesh.

What two types of groups can collect and manage objects? (Choose two.)

- A. Service
- B. Cluster
- C. Security
- D. API
- E. Node

**Answer: AB**

#### NEW QUESTION 37

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**

#### NEW QUESTION 42

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**

#### NEW QUESTION 44

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**

#### NEW QUESTION 47

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 52

Which type of design would include specific details about server hardware, port connections, or Fibre Channel zones?

- A. Logical
- B. Service
- C. Physical
- D. Conceptual

**Answer: C**

#### NEW QUESTION 54

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. Configure vCenter HA for the management domain vCenter server.
- B. ESX Host Uplink Setting: EtherChannel = Enable
- C. Advanced Cluster Setting: das.iostatsinterval = 0
- D. Set the restart priority policy for the vCenter Server appliance to high.
- E. ESX Host Uplink Setting: EtherChannel = Disable

**Answer: AD**

#### NEW QUESTION 59

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 the monitoring of up to 10,000 objects.
- The solution must support 24 months retention for all monitoring data.

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

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

**Answer: B**

#### NEW QUESTION 62

An architect is responsible for designing a VMware Cloud Foundation (VCF)-based private cloud for a customer. The architect noted the following requirements during a design workshop:

- ? Co-locate application workloads with VCF management component workloads within the same vSphere cluster.
- ? Shared storage data is always available and 100% current in the event of a single site outage.
- ? Have two sites available no more than 10 miles apart (10ms latency) connected with high-speed network technology to host their virtual infrastructure.
- ? Protect against outages of a single site designated as an availability zone.

Which two storage technologies could meet the stated requirements? (Choose two.)

- A. NVMe over TCP
- B. NVMe over Fibre Channel (FC)
- C. VMFS on Fibre Channel (FC)
- D. vSAN
- E. vSphere Virtual Volumes (vVols)

**Answer: DE**

#### NEW QUESTION 67

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 69**

During an initial design workshop with stakeholders, an Architect was provided with an overview of the current state and other information required to proceed to the design phase.

Which statement should be documented as a requirement?

- A. Existing shared storage array must be used.
- B. Block-based storage must be used within a workload domain.
- C. Existing storage arrays provide sufficient capacity for building the environment.
- D. The customer network team is not trained to support NSX VPC.

**Answer: B**

**NEW QUESTION 72**

An organization is evacuating their current datacenter and moving all workloads to a new datacenter. The organization has a total of 800 workloads to move, and the migration must be completed with no downtime within a planned change window that is scheduled to occur in four weeks.

What migration method will meet the requirements?

- A. Cross vCenter vMotion
- B. HCX OS Assisted Migration
- C. HCX Bulk Migration
- D. HCX Replication Assisted vMotion

**Answer: D**

**NEW QUESTION 75**

A financial services company is deploying a VMware Cloud Foundation (VCF)-based solution for its core banking applications. The architect needs to ensure that the design can handle peak transaction loads while maintaining the performance SLA.

Which two approaches should be included in the design validation strategy? (Choose two.)

- A. Perform the live recovery test for the master recovery plan to ensure the Recovery Time Objective (RTO) is within the defined SLA.
- B. Conduct stress testing using representative workloads to evaluate system behavior under extreme load conditions.
- C. Simulate peak transaction loads in a staging environment to validate resource scalability and vSAN performance.
- D. Deploy the solution to production first and optimize based on live performance feedback from end users.
- E. Rely on vendor-supplied performance benchmarks that were provided for the selected hardware and validate manually the Live Recovery configuration.

**Answer: BC**

**NEW QUESTION 77**

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 80**

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