

## Exam Questions 2V0-13.25

VMware Cloud Foundation 9.0 Architect

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#### NEW QUESTION 1

Which type of storage is used by VKS pods to store non-persistent data?

- A. Container image storage
- B. vSphere local storage
- C. Object storage
- D. Ephemeral storage

**Answer:** D

#### NEW QUESTION 2

An architect was in an architectural workshop and noted the following business objectives:

- ? The solution must prioritize optimal end-to-end user shopping experience for customers accessing the website.
- ? The website must be available 24 x 7 x 365.

Which three conceptual model items relate to these business objectives? (Choose three.)

- A. A requirement to have 99.99% availability uptime measured at the front-end application layer
- B. A risk that the external internet network provider does not meet the service level agreement (SLA) requirements
- C. A requirement to have 99.99% availability uptime measured at the network infrastructure layer
- D. An assumption that site performance is not a key performance indicator (KPI) for the customer
- E. A constraint of any planned changes limited to outside of business hours only
- F. An assumption that there is sufficient budget for the design to meet the performance requirements

**Answer:** ABF

#### NEW QUESTION 3

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

The architect has assumed that the solution will need to support high availability for workloads.

Given the assumption, which statement should the architect document as a risk?

- A. The solution supports the separation of management components from production workloads.
- B. BGP is the dynamic routing protocol on the physical fabric and cannot be changed.
- C. The solution supports a recovery point objective (RPO) of 24 hours for infrastructure components.
- D. The entire infrastructure is hosted on a single physical site.

**Answer:** D

#### NEW QUESTION 4

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 5

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 decisions 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 6

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**

#### NEW QUESTION 7

An architect responsible for creating the automation design for a VMware Cloud Foundation (VCF) Private Cloud is reviewing the notes from a customer design workshop. The customer has provided the following information:

- The customer's existing fleet management instance will be upgraded to maintain the existing process for virtual machine deployments.
- The customer would like to limit the total active resource consumption per VCF Automation user.
- The customer would like to ensure requests meet company requirements prior to deployment for certain users.

A combination of which two VCF Automation policies should the architect recommend to meet the customer's stated requirements? (Choose two.)

- A. IaaS Policy
- B. Approval Policy
- C. Resource Quota Policy
- D. Deployment Limit Policy
- E. Lease Policy

**Answer: BC**

#### NEW QUESTION 8

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 9

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 10

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

- According to the hardware standards, all new host server hardware must be deployed using our selected hardware vendor and server model.
- How would the architect classify this statement?

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

**Answer: B**

#### 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 12

A customer has a new initiative to build a private cloud based on VMware Cloud Foundation (VCF). The customer technical team is presenting an overview of the current state of the infrastructure as well as describing what the expectations are for the private cloud.

Based on the notes captured by the architect, which statement should be documented as a constraint?

- A. The existing storage is out of hardware vendor maintenance.
- B. No funding exists for a new storage array.
- C. Therefore, existing storage hardware must be used.
- D. The design must address security zone requirements for management, production, dev/test, and QA workloads.
- E. The design must provide a centralized management console to manage both data centers.

**Answer: B**

#### NEW QUESTION 17

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 19

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 20

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 22

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**

### NEW QUESTION 23

Discovery: Multiple business units (some from acquisitions) with separate AD instances. Each unit operates independently and requires dedicated development environments.

Requirement: Provide self-service provisioning through VCF Automation. Which two design decisions should be included? (Choose two.)

- A. All tenants will be configured to use the corporate AD instance for authentication.
- B. All tenants will be configured to use their dedicated AD instance for authentication.
- C. A VCF Automation tenant will be created for each business unit.
- D. A VCF Automation project will be created for each business unit.
- E. All projects will be configured to use their dedicated AD instance for authentication.

**Answer: BC**

### NEW QUESTION 24

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 29

An architect is designing for a VMware Cloud Foundation (VCF) Instance. The following requirements and constraints were documented:

- The management domain cluster utilizes vSAN stretched as the principal storage.
- Company policy states that compute and storage capacity utilization must not exceed 90% at all times.

Which three statements should the architect consider when designing the solution to satisfy the requirements? (Choose three.)

- A. Use a homogenous cluster configuration.
- B. Size and monitor the cluster for a maximum compute peak utilization of < 45%.
- C. Use a heterogeneous cluster configuration.
- D. Size and monitor the cluster for a maximum storage utilization of 40%.
- E. Size and monitor the cluster for a maximum compute peak utilization of < 90%.
- F. Size and monitor the cluster for a maximum storage utilization of 90%.

**Answer: ABD**

### NEW QUESTION 33

An architect is tasked with designing a new VMware Cloud Foundation (VCF) solution. During workshops with the customer, the following requirements were captured:

- REQ01: The solution must provide a self-service catalog.
- REQ02: The solution must support the segregation of the Development and Production resources (networks, virtual machines, users).

When documenting the design decisions, which statement should the architect include in order to help meet these requirements?

- A. VCF Automation does not support the use of multiple Active Directory domains.
- B. Separate workload domains must be configured to provide segregation between the Development and Production environments.
- C. VCF Automation will be configured with separate service catalog instances for Development and Production.
- D. VCF Automation will be configured with separate organizations for Development and Production.

**Answer: D**

### NEW QUESTION 34

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 38

An architect is designing a new VMware Cloud Foundation (VCF) solution. They are meeting with the key stakeholders and subject matter experts (SMEs) for the first time as part of the requirements gathering process. The following information has been shared with the architect prior to the meeting:

- ? Names and job titles of the attendees
- ? Project timelines and budget

What step should the architect perform as part of this initial requirements gathering workshop?

- A. Open the meeting with a diagram of the VCF topology that must meet the customer requirements in order to start a discussion.
- B. Ask questions to agree on the key product features the SMEs want from the design.

- C. Open the meeting with a list of the VCF design decisions from the public documentation to agree on any required changes.
- D. Ask questions to start a discussion on the business objectives and desired outcomes.

**Answer:** D

#### NEW QUESTION 41

An architect is designing a Business Continuity Disaster Recovery (BCDR) strategy for a Virtual Cloud Foundation (VCF) environment with a management domain and multiple workload domains deployed in two datacenters located in the same city.

During one of the initial workshops with stakeholders, the following information was identified:

- ? The Recovery Time Objective (RTO) for workloads is 24 hours.
- ? The management domain must remain continuously available with Recovery Point Objective (RPO) of 0.
- ? Hardware overhead should be minimized by utilizing standby resources that host test workloads during normal operation.
- ? Operational overhead should be minimized.
- ? Latency between both datacenters is 2 ms.

Which design decision should the architect document to satisfy provided requirements?

- A. Use VCF Automation to redeploy the entire environment in case of a failure.
- B. Implement vSAN stretched cluster for the management domain and Live Recovery for the workload domains.
- C. Back up all workloads daily and store them in a central repository to meet RTO expectations.
- D. Use asynchronous replication for both management and workload domains.

**Answer:** B

#### NEW QUESTION 43

An architect gathered the following requirements for a Supervisor image store. The repository must support:

- Image scanning
- Replication
- Image signing

What component would the architect recommend?

- A. Harbor
- B. Azure ACR
- C. Gitea
- D. Docker Hub

**Answer:** A

#### NEW QUESTION 47

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 51

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

#### NEW QUESTION 56

An architect is working on a VMware Cloud Foundation (VCF) architecture design and identified the following requirements:

- The organization is using a third-party virtual appliance that does not support overlay networks.
- The virtual appliance must reside on the same L2 domain as an external physical firewall.
- The virtual appliance also needs access to workloads that are currently hosted on overlay segments provided by NSX.

Which design decision should the architect make to meet these requirements?

- A. Request the third-party vendor to certify the virtual appliance for NSX Overlay segments.
- B. Connect the virtual appliance to a VLAN-backed segment and configure NSX bridging to allow access to overlay segments.
- C. Place the virtual appliance and all workloads on VLAN-backed segments.
- D. Connect the virtual appliance to an overlay-backed segment and use static routes to the firewall.

**Answer:** B

#### NEW QUESTION 61

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 65

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 70

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 components meet a software version of N-1.

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

**Answer: C**

#### NEW QUESTION 75

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 78

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 80

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 81

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 85

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 87

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 a yearly workload growth of up to 10%.

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

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

**Answer: A**

#### NEW QUESTION 90

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