



VMware

Exam Questions 2V0-13.25

VMware Cloud Foundation 9.0 Architect

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NEW QUESTION 1

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 2

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 3

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 4

Constraint: Existing stretched cluster model must be used. Requirement: Minimize management infrastructure downtime. Which Supervisor deployment model supports the design?

- A. Three Management Zone Supervisor deployment with HA control plane
- B. Single Management Zone Supervisor deployment with HA control plane
- C. Three Management Zone deployment with Simple Availability control plane
- D. Single Management Zone Supervisor deployment with Simple Availability control plane

Answer: B

NEW QUESTION 5

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 6

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 7

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 8

An architect has compiled a list of statements following a workshop with the business stakeholders. Which statement would be included in a conceptual model?

- A. The solution must meet a Mean Time To Recovery (MTTR) of 6 hours.
- B. Sites A and B will each have a stretched Layer-2 for their management network.
- C. The `das.isolationshutdowntimeout` setting will be configured to 120 seconds.
- D. Users will connect to the application servers via the NSX Advanced Load Balancer.

Answer: D

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

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

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

NEW QUESTION 12

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 15

A company is deploying a new VMware Cloud Foundation (VCF) environment to support their growing infrastructure requirements. The company is planning to scale their environment over time by adding more workload domains as new applications and departments are onboarded. The company requires that the architecture must be highly scalable and flexible, able to accommodate both current and future demands. They also require a seamless transition when adding new workload domains.

Which design decisions should the architect make to meet the stated scalability requirements and facilitate the future growth?

- A. Use a single workload domain for all departments and increase the size of the vSphere clusters as the demand grows.
- B. Use multiple workload domains for each department and ensure that each workload domain is independently scaled.
- C. Use a single workload domain and rely on storage and network scaling to accommodate future growth.
- D. Use multiple workload domains for each department but combine them into a single vSphere cluster to reduce complexity.

Answer: B

NEW QUESTION 17

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 18

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

- The solution will support secure communication.

Which design decision should be included in the logical design for the workload domain?

- A. Use a SHA-2 algorithm or higher for signed certificates.
- B. Set promiscuous mode port group security policy to reject.
- C. Verify all physical components used for the deployments are on the hardware compatibility list.
- D. Ensure the host servers have TPM 2.0 hardware.

Answer: A

NEW QUESTION 20

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 21

Which statement would be classified as a functional (business) requirement?

- A. The solution must provide the ability for users to view and track the progress of their requests.
- B. The self-service catalog must meet the Service Level Objective (SLO) of 75% successful requests measured over a 12-month period.
- C. Applications must be designed to tolerate the failure of a single datacenter.
- D. Third-party pen testing must be executed against the solution yearly with a pass rate of 80 percent or higher.

Answer: A

NEW QUESTION 23

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 28

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. Velero
- C. Restic
- D. VMware Live Recovery

Answer: B

NEW QUESTION 32

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 35

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 39

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 42

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 43

VMware Kubernetes Service (VKS) cluster exposes three layers of controllers to manage its lifecycle. Which set correctly identifies these layers?

- A. Virtual Machine Service, vCenter Appliance, Supervisor Service.
- B. Cluster API, Node Problem Detector, CNI Plugin.
- C. API Gateway, StatefulSet Controller, Ingress Controller.
- D. Virtual Machine Service, Cluster API, and Cloud Provider Plugin.

Answer: D

NEW QUESTION 47

Which Container Network Interface (CNI) is selected by default in a VMware Kubernetes Service (VKS) workload cluster?

- A. Antrea
- B. Flannel
- C. Calico
- D. Cilium

Answer: A

NEW QUESTION 48

Requirements:

- ? Workloads across multiple datacenters (DC01, DC02)
- ? Support two-factor authentication (2FA)
- ? Reduce operational overhead

Which two design decisions should be documented for the VCF Single Sign-On (SSO) architecture?

- A. Deploy VIDB in the management domain of every VCF instance in all sites.
- B. Deploy VIDB in the management domain of each VCF instance at DC02.
- C. Configure all additional VCF instances in the same region to point to the VIDB in the first VCF instance at DC02.
- D. Deploy VIDB in the first VCF instance management domain at DC01.
- E. Configure all additional VCF instances in the same private cloud to point to the VIDB in the first VCF instance at DC01.

Answer: DE

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 54

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 57

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 62

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 65

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 68

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 70

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 71

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 72

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 77

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

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

NEW QUESTION 83

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 84

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 86

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