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
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 infrastructurecomponents.
D. The entire infrastructure is hosted on a single physical site.

Answer: D

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 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 5
During a design workshop, the customer provided the following requirement:
• Business units should not be able to interfere with the operations of a different business unit.
As a result of this requirement, the architect makes the decision to enable multi-tenancy within VCF Automation.
A combination of which two design implications would also need to be documented? (Choose two.)

A. Each Tenant must use an embedded VCF Operations orchestrator instance.
B. Each Tenant must use an external VCF Operations orchestrator instance.
C. The Provider Tenant must use the embedded VCF Operations orchestrator instance.
D. All Tenants must use a single VCF Operations orchestrator instance.
E. The Provider Tenant must use an external VCF Operations orchestrator instance.

Answer: BC

NEW QUESTION 6
An architect is designing a VMware Cloud Foundation (VCF) deployment to meet the following design requirements:
• Tenants need dedicated external network access.
• The number of NSX Edge clusters should be minimized.
To fulfill these requirements, the architect made a design decision to use a Workload Networking VPC with Full Services Model.
Which additional design decision should be considered as part of the logical network design?

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

Answer: C

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
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 9
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 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 14
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 19
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 22
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 25
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 26
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 31
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 32
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 36
An architect is designing a private cloud infrastructure for two departments (HR and Finance) based on VMware Cloud Foundation (VCF) and has been given the following requirements:
? HR and Finance superusers require access to VCF Operations.
? VCF Operations access, monitoring, and logging information must not be shared across departments.
Which design decision would meet the requirement?

A. Deploy two VCF Fleet instances within the private cloud, one for HR and one for Finance.
B. Configure two tenant instances within VCF Operations, one for HR and one for Finance.
C. Deploy two VCF Operations instances within a VCF Fleet, one for HR and one forFinance.
D. Configure two sets of scopes and index partitions within VCF Operations, one for HR and one for Finance.

Answer: C

NEW QUESTION 39
A large financial institution is designing a VMware Cloud Foundation (VCF) solution. During initial discovery meetings:
• Management of the physical network is outsourced.
• VMware team cannot reconfigure the physical network.
• Environment uses Link Aggregation. How does this impact design?

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

Answer: B

NEW QUESTION 44
Which design defines how to arrange and use components and features of the infrastructure to satisfy service dependencies and other relationships specified in the Conceptual Model?

A. Physical Design
B. High Availability Design
C. Configuration Guide
D. Logical Design

Answer: D

NEW QUESTION 47
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 thanworkload-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 50
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 52
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 55
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 58
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 60
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 64
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 67
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 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 73
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 75
During a VMware Cloud Foundation (VCF) architectural design workshop, one of the stakeholders made the following comment:
? ??The company has just used the remaining budget to purchase eight vSAN Ready Nodes for this project.??
How would the architect classify this statement within the conceptual model document?

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

Answer: D

NEW QUESTION 78
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 80
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 83
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 87
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 91
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 96
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 97
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