VMware

Exam Questions 2V0-13.25

VMware Cloud Foundation 9.0 Architect

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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
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
An architect is designing a VMware Cloud Foundation (VCF) solution for a customer. During the discovery phase, the customer outlined the following availability requirements:
? Business-critical workloads: RPO = 2 hours
? Infrastructure components: RTO = 8 hours
Based on this context, what does the RTO metric represent?

A. The maximum allowable time within which a system or service must be restored to a usable state
B. The maximum amount of data loss that is considered acceptable during a failure
C. The minimum volume of data loss tolerated in the event of a disruption
D. The minimum acceptable duration required to recover a service to an operational state

Answer: A

NEW QUESTION 4
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 5
As part of a design for a VMware Cloud Foundation (VCF) solution, an architect has documented the following dependencies and constraints:
? CONSOOl - Internet access will not be permitted from anywhere within the VCF solution.
? CONS002 - The password must not be stored in plain text anywhere within the
VCF solution.
? DEP001 - The customer must make the required VCF binaries accessible to the VCF Installer appliance during the deployment phase.
Which design decision should the architect include in the design for the download of the VCF binaries?

A. The VCF Installer appliance will be configured to connect to an online depot.
B. The VCF Installer appliance will be configured to connect to an offline depot.
C. The Bundle Transfer Utility will be used on the VCF Installer appliance.
D. The VCF Download Tool will be used on the VCF Installer appliance.

Answer: B

NEW QUESTION 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
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 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
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
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 12

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:
• In the event of a disaster affecting the primary site, all tier 1 production services must be restored to the secondary site within 1 hour.
• In the event of a disaster affecting the primary site, all tier 3 production services must be restored to the secondary site within 8 hours.

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

Answer: A

NEW QUESTION 16
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 21
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 25
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 30
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 32
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 35
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 38
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 40
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 42
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 47
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 51
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 53
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 54
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 59
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 63
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. Management Port Group: Route based on physical NIC load
B. Host Overlay DHCP Scope Lease: 14 Days
C. Physical Switch MTU: 9000
D. vSAN Cache Tier Sizing: 800GB
E. Host isolation response: Power Off and restart VM

Answer: CD

NEW QUESTION 68
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 71
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 73
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 75
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 79
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 82
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 85
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 89
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 93
Which configuration should the architect recommend as part of the design of a VMware Cloud Foundation (VCF) solution to ensure optimal performance in a multi-tenant environment?

A. Use a single large datastore for all tenants to simplify management.

B. Configure all workloads to operate on a single ESXi host to minimize network latency.
C. Implement vSAN with tiered storage policies to ensure high I/O performance and low latency for tenant workloads.
D. Allow an unlimited number of virtual machines per host to consume all available resources.

Answer: C

NEW QUESTION 97
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 98
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 101
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 104
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 106
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