

Quiz VMware - 3V0-24.25 - Trustable Advanced VMware Cloud Foundation 9.0 vSphere Kubernetes Service Reliable Test Vce



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VMware 3V0-24.25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> VMware Products and Solutions: Focuses on configuring vSphere Supervisor capabilities, networking, storage, identity, and access for Kubernetes clusters. It also covers managing Kubernetes releases, CNIs, NSX networking objects, TLS certificates, and securing VKS clusters.
Topic 2	<ul style="list-style-type: none"> Plan and Design the VMware Solution: Covers evaluating the impact of load balancer sizing, namespace network options, and vSphere namespace architecture. It includes planning processes for enabling Supervisor clusters and implementing service mesh.
Topic 3	<ul style="list-style-type: none"> Install, Configure, Administrate the VMware Solution: Includes creating and managing Supervisor clusters, namespaces, zones, workloads, and add-on services. Also covers provisioning, scaling, updating VKS clusters, autoscalers, storage strategies, workload deployments, backup restore, and editing YAML configurations.
Topic 4	<ul style="list-style-type: none"> Troubleshoot and optimize the VMware Solution: Focuses on diagnosing and resolving provisioning, connectivity, namespace, VM class, storage, networking, container, registry, and CA errors. It also includes recovering failed upgrades and optimizing cluster performance using monitoring and scaling tools.
Topic 5	<ul style="list-style-type: none"> IT Architectures, Technologies, Standards: This section covers the differentiation between VMs and containers, helping determine the appropriate compute model. It also includes understanding Kubernetes architecture, networking, storage, service mesh, Helm, and reference architectures for VKS deployments.

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VMware Advanced VMware Cloud Foundation 9.0 vSphere Kubernetes Service Sample Questions (Q41-Q46):

NEW QUESTION # 41

The DevOps engineer deployed a new application to a vSphere Kubernetes Service (VKS) cluster in a vSphere Namespace and then determined that a newer Kubernetes version was required. The vSphere administrator verified compatibility between the Supervisor and all running VKS clusters and successfully updated the vSphere Supervisor to the latest version. After the Supervisor update, the DevOps engineer still could not get the application to work.

What caused the application to fail?

- A. The vSphere administrator failed to complete all the pre-checks before the update.
- B. The vSphere administrator pulled the wrong version of the Supervisor.
- C. The vSphere administrator did everything correctly and the DevOps engineer deployed the application incorrectly.
- **D. The vSphere administrator updated the Supervisor control plane.**

Answer: D

Explanation:

In Workload Management, updating the Supervisor and updating VKS clusters are related but distinct lifecycle operations. The Supervisor runs its own Kubernetes distribution, while VKS clusters consume vSphere Kubernetes releases (VKRs). These are "delivered differently," with Supervisor Kubernetes releases and VKRs each having their own release cadence and compatibility constraints. As a result, successfully updating the Supervisor control plane does not automatically change the Kubernetes version running inside an existing VKS workload cluster; the VKS cluster must be updated to a compatible VKR separately. This mismatch is exactly why an application can still fail after a Supervisor update: the DevOps engineer is still deploying onto a cluster that hasn't been updated to the Kubernetes version required by the application (or by the API versions/features it depends on). Additionally, Workload Management enforces sequential minor- version updates and compatibility checks between Supervisor and VKRs, so the correct remediation is to update the VKS cluster to an appropriate VKR that satisfies both application needs and Supervisor compatibility.

NEW QUESTION # 42

An administrator is configuring the Supervisor Service in vCenter.

Click the option an administrator uses to begin creating a vSphere Supervisor Zone.

□

Answer:

Explanation:

□

NEW QUESTION # 43

A VI Administrator is designing a namespace policy for a diverse development environment that includes both cloud-native applications and legacy database servers.

The requirements are:

1. The "Web-Front-End" team needs to self-service deploy Kubernetes clusters (TKG) to test different K8s versions.
2. The "Data-Science" team needs to run high-performance Python containers that require direct, low- latency access to the hypervisor's scheduler (vSphere Pods).
3. The "Legacy-Ops" team needs to provision Windows Server 2019 VMs using Kubernetes commands.

Review the following Namespace configuration draft:

Namespace: Mixed-Workloads

Allowed Content Libraries:

- TKG-Lib (Subscribed)
- VM-Images-Lib (Local)

VM Classes:

- best-effort-small
- guaranteed-large

Which combination of actions and components enables all three requirements within this single namespace? (Select all that apply.)

- A. For the "Data-Science" team: The networking stack for the Supervisor must be configured with NSX to support vSphere Pods (kind: Pod).
- B. For the "Data-Science" team: They must use kind: VirtualMachine but specify a container image in the spec.
- C. For the "Web-Front-End" team: The administrator must assign a TKG-compatible Content Library. The developers will use kind: TanzuKubernetesCluster (or Cluster) in their YAML.
- D. For the "Legacy-Ops" team: The VM Service must be enabled, and the Windows 2019 OVA must be present in the associated Content Library. Developers will use kind: VirtualMachine.
- E. vSphere Pods and TKG Clusters cannot coexist in the same Namespace; separate namespaces are required.

Answer: A,C,D

NEW QUESTION # 44

What is the function of Contour in a VMware vSphere Kubernetes Service (VKS) cluster?

- A. Providing persistent storage for stateful applications.
- B. Providing an ingress controller to expose services to external users.
- C. Monitoring the health and performance of the underlying infrastructure.
- D. Managing the lifecycle and patching of VKS cluster nodes.

Answer: B

Explanation:

In VCF 9.0, ingress is described as part of VKS cluster networking. The documentation's VKS Cluster Networking table lists "Cluster ingress" and identifies its role as routing inbound pod traffic. It further clarifies that this function is delivered by a third-party ingress controller, and explicitly names Contour as an example ("you can use any third-party ingress controller, such as Contour"). That mapping is exactly what option A describes: Contour is deployed to provide ingress capabilities so that inbound requests from outside the cluster can be routed to Kubernetes services and pods according to ingress rules. In other words, Contour is not a storage component (that would align to CSI/CNS/pvCSI), not a node lifecycle manager (that is handled by VKS/Cluster API/VM Service), and not an infrastructure health monitoring tool (that would be metrics/observability tooling). VCF 9.0 positions Contour specifically within the ingress part of the networking feature set, making A the correct answer.

NEW QUESTION # 45

A Platform Engineer needs to provision a new VKS cluster using the vcf-cli tool (or kubectl with the VKS plugin). The requirement is to deploy a cluster named dev-cluster-1 into the namespace dev-ns, utilizing a specific Virtual Machine Class guaranteed-large for all nodes to ensure performance.

Which of the following represents a valid configuration approach for defining the node pools in the YAML manifest? (Select all that apply.)

- A. Specify the vmClass explicitly in the TanzuKubernetesCluster spec to ensure the Supervisor schedules VMs with the correct CPU and Memory reservations backed by the guaranteed-large definition in vCenter.
- B. Define a topology section in the YAML where vmClass is set to guaranteed-large for both controlPlane and workers.
- C. Map the guaranteed-large class to the dev-ns namespace in the vSphere Client before applying the YAML, otherwise the admission controller will reject the request.
- D. Use the command kubectl create cluster dev-cluster-1 --class guaranteed-large directly (imperative).
- E. Leave the vmClass field empty to allow the Supervisor to automatically select the largest available class.

Answer: A,B,C

NEW QUESTION # 46

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