

# 2026 3V0-24.25: Professional Actual Advanced VMware Cloud Foundation 9.0 vSphere Kubernetes Service Tests



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## VMware 3V0-24.25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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</li><li>• restore, and editing YAML configurations.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>• 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.</li></ul>

- 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.

## VMware Advanced VMware Cloud Foundation 9.0 vSphere Kubernetes Service Sample Questions (Q28-Q33):

### NEW QUESTION # 28

What component is used to provision VMware vSphere Kubernetes Service (VKS) service mesh workload clusters?

- A. Cert-manager
- B. Harbor
- C. Carvel
- D. Cluster API

**Answer: D**

Explanation:

In VCF 9.0, VKS cluster provisioning and lifecycle management is built around Kubernetes-native, declarative APIs. The VMware documentation describes that Cluster API provides declarative, Kubernetes-style APIs for cluster creation, configuration, and management, and that its inputs include the cluster definition plus the resources describing the virtual machines and "cluster add-ons." This is why Cluster API is the component associated with provisioning (creating and managing) workload clusters in the VKS model. By contrast, cert-manager is typically used to automate certificate issuance/renewal for in-cluster components, and Carvel is a set of tools often used to package, configure, and install Kubernetes software, but neither is the core provisioning controller for creating the clusters themselves. The VCF documentation is explicit that Cluster API is the API layer responsible for cluster creation/configuration/management, making it the correct answer for provisioning VKS workload clusters (including those intended to run service mesh capabilities).

### NEW QUESTION # 29

A platform operator runs a kubectl command and receives the error "Couldn't get current server API list".

Which command resolves the error?

- A. kubectl config get-clusters
- B. kubectl vsphere vm web-console
- C. kubectl vsphere login
- D. kubectl config use-context

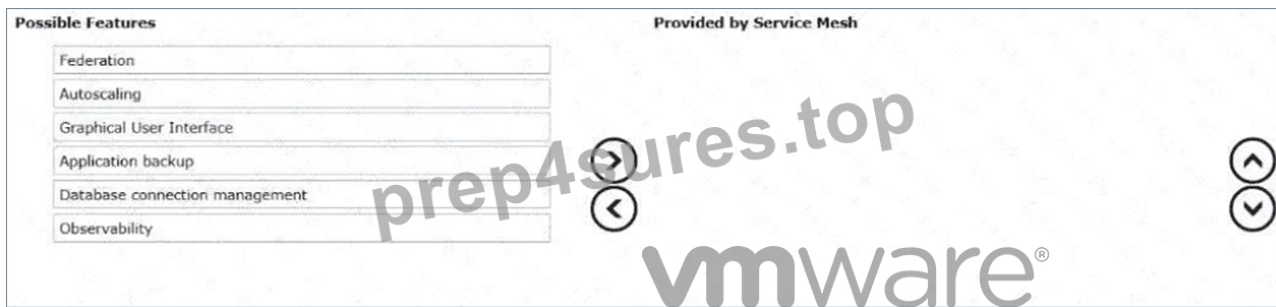
**Answer: C**

Explanation:

In the VMware Cloud Foundation (VCF) 9.0 ecosystem, specifically when interacting with the vSphere Supervisor or vSphere Kubernetes Service (VKS), the error "Couldn't get current server API list" is a classic indicator of an authentication or connectivity failure between the local workstation and the Kubernetes API server. This typically occurs because the short-lived security token stored in the local kubeconfig file has expired, or the user has not yet established a valid session with the Supervisor. The definitive resolution is to run the kubectl vsphere login command. This command is part of the vSphere CLI plugin and is specifically designed to facilitate the authentication flow between the developer's machine and the vSphere environment. When executed, it triggers the identity provider (IdP) workflow-utilizing OpenID Connect (OIDC) via the integrated Pinniped service-to verify the user's credentials. Once authenticated, the plugin automatically retrieves the necessary cluster connection details and updates the local kubeconfig with a fresh, valid bearer token and the correct server context. While kubectl config use-context (Option A) can switch between existing profiles, it cannot resolve a missing or expired API session. By running the login command, the platform operator ensures that the kubectl client can once again communicate with the declarative API of the Supervisor, allowing for continued management of namespaces, workload clusters, and associated SDDC resources.

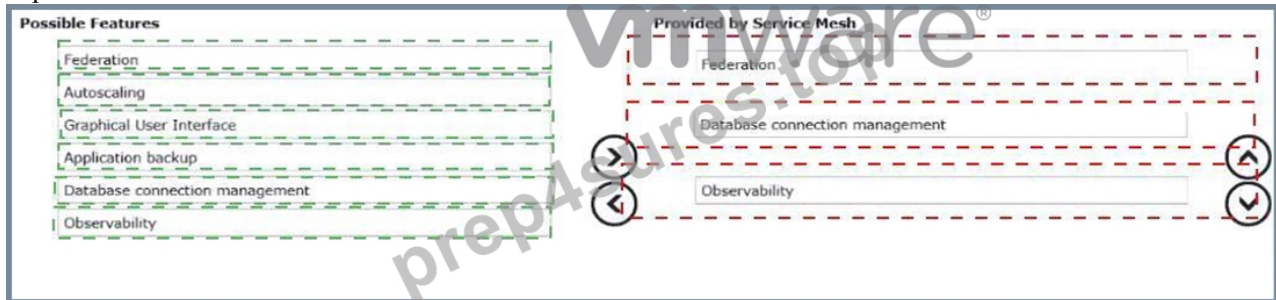
### NEW QUESTION # 30

Drag and drop the three features into the correct order from Possible Features list on the left and place them into the Provided by Service Mesh on the right side. (Choose three.)



**Answer:**

**Explanation:**



**Explanation:**

Provided by Service Mesh (choose three, in order):

- \* Federation
- \* Graphical User Interface
- \* Observability

A service mesh is an application networking layer that manages service-to-service communication across Kubernetes clusters, providing consistent connectivity, policy enforcement, and visibility without requiring application code changes. Federation is a service-mesh capability because modern meshes (especially multi-cluster/enterprise implementations) can connect services across multiple clusters and environments, enabling shared identity, cross-cluster service discovery, and uniform policy application (often described as multi-cluster or federated service connectivity). A Graphical User Interface is commonly provided alongside the service mesh platform to centrally configure policies (traffic routing, access controls, security settings) and to visualize service topology and health. Observability is a core service-mesh outcome: by inserting sidecar proxies (or equivalent dataplane components) into the data path, the mesh can generate consistent metrics, logs, and distributed traces for service traffic, enabling latency/error monitoring and dependency mapping.

The other options are not service-mesh features: Autoscaling is handled by Kubernetes/HPA and metrics pipelines, application backup is typically provided by backup tools (e.g., Velero-like solutions), and database connection management is handled by application frameworks or database proxies rather than the service mesh itself.

### NEW QUESTION # 31

What open-source project enables automated lifecycle management of VMware vSphere Kubernetes Service (VKS) clusters?

- A. kubeadm
- B. Contour
- C. Grafana
- D. Cluster API

**Answer: D**

**Explanation:**

VCF 9.0 describes VKS as providing self-service, declarative lifecycle management for Kubernetes clusters and explicitly identifies Cluster API as the mechanism that enables Kubernetes-style lifecycle automation. The documentation states that "The Cluster API provides declarative, Kubernetes-style APIs for cluster creation, configuration, and management," and that its inputs include resources describing "the virtual machines that make up the cluster" plus "cluster add-ons." This directly maps to automated lifecycle management: a desired-state YAML is reconciled by controllers that create, update, and maintain the control plane and worker node resources without manual, imperative procedures.

The same VCF 9.0 content also notes VKS exposes "three layers of controllers" for lifecycle management and lists Cluster API as one of those layers, reinforcing that Cluster API is foundational for ongoing cluster operations (create, scale, upgrade, reconcile).

Contour is an ingress controller (traffic routing), kubeadm is a Kubernetes bootstrap tool (not the VKS lifecycle controller framework), and Grafana is observability /visualization (not cluster lifecycle).

### NEW QUESTION # 32

A VKS Administrator needs to make the "Tanzu Standard" package set (containing packages like Contour and Prometheus) available to a newly provisioned TKG cluster named workload-cluster-1.

Review the following YAML manifest for the repository configuration:

```
apiVersion: packaging.carvel.dev/v1alpha1
kind: PackageRepository
metadata:
  name: tanzu-standard
  namespace: tkg-system
spec:
  fetch:
  imgpkgBundle:
  image: projects.registry.vmware.com/tkg/packages/standard/repo:v2.1.0
```

Which kubectl action correctly applies this configuration to enable package discovery on the cluster?

- A. Switch the kubeconfig context to the workload-cluster-1 context, then run `kubectl apply -frepo.yaml`.
- B. Run `kubectl vsphere login --server=repo.vmware.com` to authenticate directly to the public repository.
- C. Switch the kubeconfig context to the Supervisor Namespace, then run `kubectl apply -frepo.yaml`.
- D. Use the vSphere Client "Workload Management" UI to upload the YAML file to the Content Library.

**Answer: A**

### NEW QUESTION # 33

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