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## VMware 3V0-24.25 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 3	<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 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>

Topic 5	<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>
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## VMware Advanced VMware Cloud Foundation 9.0 vSphere Kubernetes Service Sample Questions (Q38-Q43):

### NEW QUESTION # 38

An administrator is upgrading to VKS 3.4 and encounters the following error during cluster creation using workload, yami:

```

Error from server (Forbidden): error when creating "workload.yaml": admission webhook
"capimutating.tanzukubernetescluster.run.tanzu.vmware.com" denied the request: Cluster and variable validation failed:
[spec.topology.variables[defaultStorageClass]: Invalid value: "\vks-storage-policy": variable is not defined,
spec.topology.variables[nodePoolVolumes]: Invalid value: "{\capacity\":
{\storage\": \"100Gi\"}, \mountPath\": \"/var/lib/containerd\", \"name\": \"containerd\", \"storageClass\": \"vks-storage-policy\"},
{\capacity\": {\storage\": \"100Gi\"}, \mountPath\": \"/var/lib/kubelet\", \"name\": \"kubelet\", \"storageClass\": \"vks-storage-
policy\"}]: variable is not defined, spec.topology.variables[trust]: Invalid value: \"{additionalTrustedCAs\":
{\name\": \"additional-ca-1\"}}\": variable is not defined]

```

How should the administrator resolve this issue to successfully complete the upgrade?"

- A. Remove the deprecated variables and apply the new workload, yaml.
- B. Rename the vSphere storage policy and apply the new workload.yaml.
- C. Verify workload cluster versions to ensure compatibility
- D. Restart the Kubernetes services and restart the upgrade

**Answer: A**

**Explanation:**

The error shows an admission webhook denial where variable validation failed and multiple entries under spec.topology.variables[...] are reported as "variable is not defined". That message indicates the manifest is supplying variables that are not part of the current Cluster API / topology schema enforced by the Supervisor during cluster creation. In VKS, cluster provisioning is declarative: you invoke the VKS API with `kubectl + a YAML file`, and "after the cluster is created, you update the YAML to update the cluster." When the API/schema changes between releases, older manifests can contain fields/variables that are no longer recognized, and the admission webhook blocks them to prevent creating an invalid cluster spec. This aligns with VMware's broader direction that the older Tanzu Kubernetes Cluster (TKC) API was deprecated and customers are encouraged to use Cluster API for bootstrap/config/lifecycle management. In practice, to complete the upgrade/creation successfully, you must update the cluster manifest to match the supported schema: remove the deprecated/unknown topology variables shown in the error (for example, the undefined storage-policy and trust variables) and re-apply the corrected workload.yaml.

### NEW QUESTION # 39

An administrator is building a secure, multi-tenant container registry strategy for their vSphere Kubernetes Services deployment running on VMware Cloud Foundation. Each workload domain hosts a Supervisor Cluster, and multiple development teams require private repositories to store and distribute container images for Kubernetes clusters. The organization enforces strict image security posture due to compliance requirements. The operations team deploys Harbor as an add-on service through the Supervisor control plane, and developers push/pull images from Harbor through Kubernetes manifests.

What requirement describes the role and purpose of Harbor?

- A. Harbor is an image scanner used to verify that images are free from known vulnerabilities and patches as necessary.

- B. Harbor is an open-source registry that secures artifacts with policies and role-based access control, ensures images are scanned and free from vulnerabilities, and signs images as trusted.
- C. Harbor, formerly known as Bitnami, is an image catalog used for downloading verified open-source packages.
- D. Harbor is an image repository that pulls all images from GitHub.

**Answer: B**

**Explanation:**

Harbor is used as a private registry service to store and distribute container artifacts for Kubernetes consumption, which is exactly what's needed for a multi-tenant platform where multiple teams require isolated repositories. The VMware documentation treats Harbor as a VMware Tanzu Harbor Registry service, including governance around who can operate it and how teams are separated into projects (a key multi-tenancy boundary). For example, vSphere privileges explicitly cover the ability to create or delete a Harbor registry and to create, delete, or purge Harbor registry projects, reinforcing that Harbor is operated as a managed registry with project-scoped administration and access control.

In practice for regulated environments, the registry role is not just storage—Harbor is commonly used to enforce enterprise controls like policy-driven access (RBAC), and it supports security capabilities such as image vulnerability scanning and image trust/signing, which directly address the requirement to prevent unsafe images from being promoted or deployed.

**NEW QUESTION # 40**

An administrator is adding a Kubernetes cluster to an existing namespace. Click where the administrator navigates to create the cluster.



**Answer:**

**Explanation:**



**Explanation:**

**Kubernetes Service**

When adding a Kubernetes cluster to an existing vSphere Namespace, the workflow is initiated from within that namespace's context in the vSphere Client. The administrator first opens the target namespace (as shown in the left navigation where the namespace is selected), then uses the Kubernetes Service area to create and manage Kubernetes clusters associated with that namespace. In the namespace Summary view, the Kubernetes Service tile/card provides the entry point for cluster lifecycle actions, typically via an action link such as Manage (and from there Create Cluster). This is because the Kubernetes cluster is a namespace-scoped resource in the

Supervisor environment: it inherits namespace-level policies and configuration such as permissions/RBAC, resource limits, storage policies, and networking selections that have already been defined for that namespace. Navigating to other areas like Storage or Network is used to validate or adjust prerequisites (for example, storage policy availability or network settings), but the actual "create cluster" operation is launched from Kubernetes Service within the namespace to ensure the cluster is created under the correct tenant boundary and governance model.

#### NEW QUESTION # 41

A Cloud Administrator is troubleshooting an issue where the Cluster Autoscaler is thrashing (rapidly scaling up and then immediately scaling down) a TKG cluster.

Review the following sequence of events:

1. 10:00 AM - Traffic spike, HPA scales pods up.
2. 10:01 AM - Cluster Autoscaler adds 2 nodes.
3. 10:05 AM - Traffic drops slightly, HPA scales pods down.
4. 10:06 AM - Cluster Autoscaler deletes 1 node.
5. 10:07 AM - Traffic spikes again, HPA scales pods up.
6. 10:08 AM - Cluster Autoscaler adds 1 node.

This cycle repeats, causing instability.

What is the most effective configuration change to stabilize this cluster? (Select all that apply.)

- A. Increase the scale-down-unnneeded-time (or scale-down-delay) in the Autoscaler profile to a value longer than the typical traffic fluctuation cycle (e.g., 30 minutes).
- B. Disable the Cluster Autoscaler and manually size the cluster for peak load.
- C. Decrease the max-size of the node pool to prevent it from growing.
- D. Increase the HPA sync period or adjust HPA metrics to be less sensitive to short bursts.
- E. Enable optimize-allocation mode on the Supervisor.

Answer: A,D

#### NEW QUESTION # 42

An administrator is upgrading to VKS 3.4 and encounters the following error during cluster creation using workload, yami:

```

Error from server (Forbidden): error when creating "workload.yaml": admission webhook
"capimutating.tanzukubernetescluster.run.tanzu.vmware.com" denied the request: Cluster and variable validation failed:
[spec.topology.variables[defaultStorageClass]: Invalid value: "\"vks-storage-policy\"": variable is not defined,
spec.topology.variables[nodePoolVolumes]: Invalid value: "[{ \"capacity\":
  {\"storage\": \"100Gi\"}, \"mountPath\": \"/var/lib/containerd\", \"name\": \"containerd\", \"storageClass\": \"vks-storage-policy\"},
  {\"capacity\": {\"storage\": \"100Gi\"}, \"mountPath\": \"/var/lib/kubelet\", \"name\": \"kubelet\", \"storageClass\": \"vks-storage-
policy\"}]]": variable is not defined, spec.topology.variables[trust]: Invalid value: "\"additionalTrustedCAs\":
  [{\"name\": \"additional-ca-1\"}]]": variable is not defined]

```

How should the administrator resolve this issue to successfully complete the upgrade?

- A. Remove the deprecated variables and apply the new workload, yami.
- B. Rename the vSphere storage policy and apply the new workload, yami.
- C. Verify workload cluster versions to ensure compatibility
- D. Restart the Kubernetes services and restart the upgrade

Answer: A

Explanation:

The error shows an admission webhook denial where variable validation failed and multiple entries under spec.topology.variables3... are reported as "variable is not defined". That message indicates the manifest is supplying variables that are not part of the current Cluster API / topology schema enforced by the Supervisor during cluster creation. In VKS, cluster provisioning is declarative: you invoke the VKS API with kubectl + a YAML file, and "after the cluster is created, you update the YAML to update the cluster." When the API/schema changes between releases, older manifests can contain fields/variables that are no longer recognized, and the admission webhook blocks them to prevent creating an invalid cluster spec.

This aligns with VMware's broader direction that the older Tanzu Kubernetes Cluster (TKC) API was deprecated and customers are encouraged to use Cluster API for bootstrap/config/lifecycle management. In practice, to complete the upgrade/creation successfully, you must update the cluster manifest to match the supported schema: remove the deprecated/unknown topology variables shown in the error (for example, the undefined storage-policy and trust variables) and re-apply the corrected workload, yami.

#### NEW QUESTION # 43

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