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VMware 3V0-24.25 Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
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"> 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 4	<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 5	<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.

Exam 3V0-24.25 Quick Prep, 3V0-24.25 Valid Exam Objectives

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VMware Advanced VMware Cloud Foundation 9.0 vSphere Kubernetes Service Sample Questions (Q30-Q35):

NEW QUESTION # 30

A VKS Administrator is troubleshooting a failed upgrade where the new worker nodes are successfully provisioned (VMs are "Powered On") but fail to join the Kubernetes cluster. The Machine status reports NodeRegistrationFailure.

The administrator inspects the cloud-init logs on one of the failed worker VMs and finds:

```
# /var/log/cloud-init-output.log
```

```
...
```

```
[ 25.123456] cloud-init[1234]: curl: (7) Failed to connect to 192.168.10.50 port 6443: Connection timed out
```

```
[ 25.123456] cloud-init[1234]: Error: failed to join cluster: could not connect to API server
```

```
...
```

192.168.10.50 is the Virtual IP (VIP) of the cluster's Load Balancer Service.

What are the likely causes of this failure? (Choose 2.)

- A. The CNI plugin (Antrea/Calico) on the new node failed to start.
- **B. The Load Balancer Service (HAProxy/Avi) is down or misconfigured, preventing traffic to the VIP from reaching the Control Plane nodes.**
- C. The Kubernetes version of the new nodes is incompatible with the Control Plane.
- **D. The new worker nodes were deployed into a different vSphere Zone that has no routing path to the Load Balancer VIP network.**
- E. The Network Policies in the namespace are blocking inbound traffic to the API server from the new worker nodes' IP range.

Answer: B,D

NEW QUESTION # 31

What three controllers maintain the lifecycle of VMware vSphere Kubernetes Service (VKS) clusters? (Choose three.)

- **A. Virtual Machine Service**
- B. Container Network Interface
- **C. Cluster API**
- D. Container Storage Interface
- **E. Cloud Provider Plug-in**

Answer: A,C,E

Explanation:

The VCF 9.0 documentation explicitly states that "the VKS exposes three layers of controllers to manage the lifecycle of a VKS cluster." Those three controller layers map directly to the answer choices:

* Cloud Provider Plug-in: VKS-provisioned clusters include components needed to integrate with vSphere Namespace resources, including a Cloud Provider Plug-in that integrates with the Supervisor and supports infrastructure-integrated functions (for example, passing persistent volume requests to the Supervisor which integrates with Cloud Native Storage).

* Cluster API: The documentation describes Cluster APIs as providing declarative APIs for "cluster creation, configuration, and management," including resources for the VMs and cluster add-ons.

* Virtual Machine Service: The Virtual Machine Service provides declarative APIs to manage VMs and associated vSphere resources, and is used to manage the lifecycle of the control plane and worker node VMs that host a VKS cluster.

CNI and CSI are important cluster components, but the document distinguishes these from the three controller layers responsible for lifecycle management.

NEW QUESTION # 32

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
"capi mutating.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: "\"additionalTrustedCRs\":
[\"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. Restart the Kubernetes services and restart the upgrade
- D. Verify workload cluster versions to ensure compatibility

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, yami.

NEW QUESTION # 33

A DevOps Engineer is evaluating the VM Service (Virtual Machine Service) included with vSphere with Tanzu.

What is the primary architectural purpose of this service?

- A. To convert existing Virtual Machines into vSphere Pods automatically.
- B. To allow developers to provision and manage Virtual Machines using Kubernetes-native APIs (`kubectl`) alongside containerized workloads.
- C. To run containerized applications inside a specialized Virtual Machine without a Kubernetes control plane.
- D. To replace vCenter Server as the primary management interface for all vSphere Virtual Machines.

Answer: B

NEW QUESTION # 34

A Platform Engineer needs to enable the Cluster Autoscaler for an existing TKG cluster named web- cluster to handle bursty traffic. The cluster currently has a static worker node count.

Review the Tanzu Kubernetes Cluster YAML snippet:

spec:

topology:

workers:

replicas: 3

vmClass: best-effort-medium

storageClass: default-storage

Which modification to the YAML manifest correctly enables autoscaling for the worker node pool?

- A. Change the replicas field to auto.

- B. Add the annotations `cluster.k8s.io/cluster-api-autoscaler-node-group-min-size` and `cluster.k8s.io/cluster-api-autoscaler-node-group-max-size` to the workers section (or the corresponding `MachineDeployment`).
- C. Create a `HorizontalPodAutoscaler` resource targeting the `MachineSet`.
- D. Install the cluster-autoscaler Helm chart from the VMware marketplace into the cluster.

Answer: B

NEW QUESTION # 35

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