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VMware 3V0-24.25 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<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 5	<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.

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Quiz 3V0-24.25 - Advanced VMware Cloud Foundation 9.0 vSphere Kubernetes Service Newest Valid Exam Questions

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VMware Advanced VMware Cloud Foundation 9.0 vSphere Kubernetes Service Sample Questions (Q82-Q87):

NEW QUESTION # 82

A VI Administrator needs to expand the available storage options for a specific vSphere Namespace data-science. The team requires a new storage tier for temporary scratch data that does not need replication (RAID-0).

The administrator has created a new VM Storage Policy named scratch-policy in vCenter that defines these non-replicated rules. What is the correct procedure to make this new policy available to the DevOps team's kubectl context within that namespace? (Select all that apply.)

- A. Instruct the DevOps team to create a StorageClass YAML with the provisioner: `csi.vsphere.vmware.com` and parameters `storagepolicyname: scratch-policy`.
- B. Once added in the vSphere Client, verify the availability by running `kubectl get storageclass` within the data-science namespace context; a new class named scratch-policy should appear automatically.
- C. Log in to the Supervisor Control Plane via SSH and edit the `/etc/kubernetes/manifests/kube-controller-manager.yaml` file to include the new policy.
- D. No action is needed; all vCenter storage policies are automatically available to all namespaces as StorageClasses.
- E. Log in to the vSphere Client, navigate to Workload Management, select the Namespace, go to the Storage card, and click Edit Storage Policies to add scratch-policy.

Answer: B,E

NEW QUESTION # 83

A company standardized on the following configurations:

* vSphere Kubernetes Service (VKS) upgrade is separate from vCenter upgrades.

* A private registry will be utilized.

How should an administrator adhere to these standards?

- A. When uploading the service definition, choose Asynchronous Public.
- B. Issue a PowerCLI command to point to the private registry.
- C. Issue a kubectl command pointing the service definition to the private registry.
- D. When uploading the service definition, choose Asynchronous Private.

Answer: D

Explanation:

VCF 9.0 documentation explicitly indicates that vCenter upgrades and the Supervisor/cluster (Workload Management) upgrade are distinct, noting that "if you have only upgraded vCenter and not the cluster" then DevOps engineers have reduced permissions until the cluster is upgraded. This supports the stated standard that VKS/Workload Management lifecycle can be treated separately from vCenter. For the private registry requirement, VCF 9.0 provides an operational mechanism to authenticate and pull artifacts from private registries: "Registry secrets allow package and repository consumers to authenticate to and pull images from private registries," implemented via a standard Kubernetes Secret of type `kubernetes.io/dockerconfigjson`.

Taken together, the standard implies (1) asynchronous handling (separate lifecycle from vCenter) and (2) private sourcing (images pulled from an internal registry with registry secrets). Therefore, selecting Asynchronous Private best matches both requirements in a single configuration choice, aligning with the documented separation of upgrades and the documented need to use authenticated access to private registries.

NEW QUESTION # 84

A customer is required to enhance the security for a set of VMware vSphere Kubernetes Service (VKS) clusters that host services interacting with sensitive customer data. The solution must encrypt the transport and communications between services.

The VKS Admin recommends enabling Istio Service Mesh to satisfy the requirement. What type of encryption does Istio Service Mesh provide?

- A. IPsec with IKEv2

- B. mTLS
- C. SSH or TLS
- D. AES 256

Answer: B

Explanation:

Istio is available in VCF 9.0 as an optional package that can be installed for VKS clusters. The VCF 9.0 documentation explicitly lists "Istio" among the optional packages that "can be optionally installed" for the vSphere Kubernetes Service (VKS). In Kubernetes platforms, Istio is a service mesh that secures and manages service-to-service (east-west) traffic by establishing authenticated and encrypted connections between workloads. The encryption mechanism it provides for inter-service communication is mutual TLS (mTLS), which means both ends (client and server workloads) authenticate each other and negotiate encrypted transport for every service call-meeting the requirement to "encrypt the transport and communications between services." This is distinct from host-level mechanisms like IPsec/IKEv2 (network-layer) or "AES-256" (an algorithm, not the service-to-service transport model). Enabling Istio Service Mesh is therefore aligned to deliver encrypted, identity-aware service communications across the cluster at the application service layer.

NEW QUESTION # 85

Refer to the exhibit in the following StorageClass manifest, which field is used to specify the Volume Plugin driver used for the underlying storage array?

YAML

```
apiVersion: storage.k8s.io/v1
kind: StorageClass
metadata:
  name: standard
  provisioner: kubernetes.io/aws-ebs
parameters:
  type: gp2
  reclaimPolicy: Retain
  allowVolumeExpansion: true
mountOptions:
  - debug
volumeBindingMode: Immediate
```

- A. provisioner
- B. parameters
- C. name
- D. type

Answer: A

Explanation:

In a Kubernetes-based architecture like the vSphere Kubernetes Service (VKS) within VMware Cloud Foundation (VCF) 9.0, a StorageClass manifest serves as the definition for dynamic volume provisioning. The provisioner field is the mandatory attribute that determines which specific volume plugin or driver is invoked to create the underlying storage resource. In the provided exhibit, the string provisioner: kubernetes.io/aws-ebs specifies that the AWS Elastic Block Store (EBS) driver is the orchestrator for the lifecycle of the volumes associated with this class.

In a standard on-premises VCF 9.0 deployment, the provisioner field typically points to csi.vsphere.vmware.com, identifying the vSphere Container Storage Interface (CSI) driver. This driver acts as the translator between Kubernetes PersistentVolumeClaims (PVCs) and vSphere's Cloud Native Storage (CNS) layer. The other fields in the manifest serve supporting roles: name provides a reference for the StorageClass, parameters (such as type: gp2) pass configuration-specific details to the driver, and reclaimPolicy determines what happens to the data once a claim is deleted. However, only the provisioner field defines the "who" of the operation-the actual software driver responsible for communicating with the storage array or cloud provider to provision the physical or virtual disk. Understanding this distinction is critical for administrators managing hybrid-cloud workloads where different provisioners are used across diverse infrastructure backends.

NEW QUESTION # 86

A VKS Administrator is troubleshooting a stalled upgrade of the prod-cluster. The upgrade has halted during the worker node rollout.

The administrator inspects the Machine object for the node currently being deleted (worker-node-02) and finds the following event:
Events:

Type Reason Age From Message

Warning DrainFailed 10m machine-controller Failed to drain node: Cannot evict pod "payment- service-5d4f7c" in namespace "finance": PodDisruptionBudget "payment-pdb" is blocking eviction.

Review the PodDisruptionBudget (PDB) status:

NAME MIN AVAILABLE MAX UNAVAILABLE ALLOWED DISRUPTIONS AGE

payment-pdb 2 N/A 50d 0

The deployment payment-service currently has 2 replicas running.

What is the correct procedure to resolve this blockage and allow the upgrade to proceed? (Choose 2.)

- A. Restart the Supervisor Control Plane to reset the drain controller.
- B. Manually delete the Machine object for worker-node-02 using `kubectl delete machine --force`.
- C. Delete the PodDisruptionBudget temporarily.
- **D. Edit the PDB to reduce minAvailable to 1.**
- **E. Scale up the payment-service deployment to 3 replicas.**

Answer: D,E

NEW QUESTION # 87

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