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Introduction:

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Question: 1

A customer has six hosts available in a cluster. When running at full capacity, all virtual machines can be run on two hosts.
How many hosts can the customer place into maintenance mode at the same time while still providing N+2 resiliency to the cluster?

A. Two
B. Three
C. One
D. None

Answer: A

Question: 2

An architect is designing a series of new vSphere environments for an organization. The environments will be deployed in their US-East and US-West region data centers. Each data center may have one or more dedicated vSphere environments. Only the vSphere environments within a data center will be configured with Enhanced Linked Mode. The Chief Technology Officer (CTO) has authorized the use of VMware vRealize Automation Cloud for automation. The build team creates standardized virtual machine images for various operating systems in Open Virtualization Format (OVF) and publishes the latest version on an as-needed basis to an internal HTTPS-accessible repository.
The architect must design a content library topology that meets the following requirements:
A localized content library must be available in each data center.
Each content library must be updated when an image is updated and released by the build team.
The cloud automation platform must be able to consume the latest approved content library images.
It must leverage the existing build team processes.
What should the architect recommend to meet the requirements?

A. Work with the build team to create a local content library for each vSphere environment.
B. Create a local content library for the primary vSphere environment in each data center.

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VMware 3V0-24.25 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 3	• 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	• 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 5	• 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.

VMware Advanced VMware Cloud Foundation 9.0 vSphere Kubernetes Service Sample Questions (Q66-Q71):

NEW QUESTION # 66
Which feature in VMware vSphere Kubernetes Service (VKS) provides vSphere storage policy integration that supports provisioning persistent volumes and their backing virtual disks?

- A. vSphere Cloud Native Storage (CNS)
- B. Cloud storage implementation
- C. Cloud storage provider
- D. Container Storage Interface (CSI)

Answer: A

Explanation:
VCF 9.0 describesCloud Native Storage (CNS) on vCenteras the component that implements "provisioning and lifecycle operations for persistent volumes." When provisioning persistent volumes, CNS "interacts with the vSphere First Class Disk functionality to create virtual disks that back the volumes," and it
"communicates with Storage Policy Based Management to guarantee a required level of service to the disks." This is exactly the storage-policy-to-backed-virtual-disk relationship the question is testing: storage policies (via policy-based management) define requirements, and CNS is the vCenter-side service that applies those requirements while creating and managing the backing storage objects.
In contrast,CSI(including Supervisor CNS-CSI and VKS pvCSI) is the Kubernetes-facing interface/driver used to request and consume storage, but it does not "provide" the vSphere storage policy system; rather, it relies on CNS/CNS-CSI and vCenter services to fulfill provisioning requests. Therefore,vSphere Cloud Native Storage (CNS)is the correct choice.

NEW QUESTION # 67
A VKS Administrator is troubleshooting a failed package installation. A developer attempted to install the fluent-bit package, but the PackageInstall resource status reports a reconciliation failure.

The administrator inspects the PackageRepository status:
$ kubectl get packagerepository -n tkg-system
NAME AGE DESCRIPTION
private-repo 10m Reconcile failed: Error: Imgpkg: Fetching image:
Head "https://private-reg.corp.local/repo/packages:v1":
x509: certificate signed by unknown authority
The environment uses a private Harbor registry (private-reg.corp.local) signed by an internal Corporate Root CA.
What is the correct procedure to resolve this trust issue and allow the cluster to pull packages? (Choose 2.)

- A. Obtain the Corporate Root CA certificate in PEM format.
- B. Manually copy the CA certificate to /etc/ssl/certs on every worker node and reboot them.
- C. Create a Kubernetes Secret of type Opaque (or generic) in the tkg-system namespace containing the CA certificate (key ca.crt), then reference this secret in the spec.fetch.imgpkgBundle.secretRef (or appropriate CA trust field if supported by the specific API version) of the PackageRepository YAML. Self- Correction/Refinement: The standard TKG way to trust a registry CA for the whole cluster (including containerd and kapp) is typically at cluster creation via the TkgServiceConfiguration or ClusterClass, OR by patching the cluster. However, for kapp-controller specific trust, referencing a CA secret or ensuring the node trusts it is key.
- D. Disable TLS verification on the kapp-controller deployment by editing the deployment spec.
- E. Reconfigure the TKG cluster by updating its TanzuKubernetesCluster spec to include the trust.additionalTrustedCAs field with the Corporate Root CA name/data.

Answer: A,E

NEW QUESTION # 68
An architect is meeting with a customer to deploy a mission-critical application using the vSphere Kubernetes Service. The architect learns that the ticketing application runs at a steady state 80% of the time but has significant spikes when an event is announced. The application is unable to meet demand even though resources are available.
What will address the issue of peak demand?

- A. Install cluster autoscaling.
- B. Install the Contour Supervisor Services package.
- C. Enable Foundation Load Balancer to manage the network traffic during peak demand.
- D. Oversubscribe the vSphere Kubernetes environment so that adequate resources are always available.

Answer: A

Explanation:
The problem describes demand spikes where capacity exists, but the application cannot meet demand-this typically indicates the cluster needs toscale out(more nodes/pods) automatically when load increases. In VCF 9.0, VKS supportsCluster Autoscaleras an optional package and specifically calls out improvements: "Cluster Autoscaler supports scaling from zero or to zero... You must have the autoscaler standard package installed." This directly supports optionA(install cluster autoscaling) as the mechanism to dynamically add capacity during peak events and reduce it afterward, optimizing cost and operations while meeting bursts. A load balancer (including Foundation Load Balancer) helps distribute traffic acrossexistingendpoints, but it does not create new compute capacity when pods are pending due to insufficient nodes. Similarly, installing Contour relates to ingress (routing inbound traffic) and is not, by itself, a capacity scaling solution. Oversubscription is a risky workaround that can degrade performance and does not provide targeted, policy-driven elasticity. Therefore, enablingcluster autoscalingis the correct way to address burst demand when underlying resources are available.

NEW QUESTION # 69
An administrator enabled cluster scaling by running kubectl edit deployment and updating the number of replicas from 5 to 10. When the cluster was redeployed with the number of replicas set to 5, what was the result?

- A. The cluster did not have sufficient resources to deploy the requested number of pods.
- B. The Supervisor YAML file was not updated to enable autoscaling.
- C. The autoscaling YAML file was not updated.
- D. The cluster YAML file was not updated to reflect the requested number of pods.

Answer: D

Explanation:
In a vSphere Kubernetes Service (VKS) environment, resource management follows aDeclarative Model.
When an administrator uses kubectl edit deployment to manually scale a running workload from 5 to 10 replicas, they are modifying thelive stateof the deployment. However, thesource of truthfor a Tanzu Kubernetes cluster in VCF 9.0 is theCluster YAML specificationmaintained by the Cluster API (CAPI) provider within the Supervisor.
If the administrator redeploys the cluster or if the Supervisor's controller performs a reconciliation loop, it refers back to the original configuration file. If that cluster YAML file still defines the replica count as 5, the Supervisor will terminate the 5 "extra" pods to match the desired state defined in the configuration. This is a common administrative pitfall; for changes to be persistent across redeployments or updates in VCF 9.0, the underlying manifest (the "Desired State") must be updated. Manually editing the live object only provides a temporary change that will be overwritten during the next synchronization or lifecycle event because the cluster YAML file was not updated to reflect the requested increase.

NEW QUESTION # 70
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: "{\"additionalTrustedCAs\":
[{\"name\":\"additional-ca-1\"}]}": variable is not defined]
```

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

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

Answer: B

Explanation:
The error shows an admission webhook denial wherevariable validation failedand multiple entries under spec.
topology.variables[...] are reported as"variable is not defined". That message indicates the manifest is supplying variables that arenot part of the current Cluster API / topology schemaenforced by the Supervisor during cluster creation. In VKS, cluster provisioning isdeclarative: you invoke the VKS API withkubectl + 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 olderTanzuKubernetesCluster (TKC) API was deprecatedand customers are encouraged to useCluster APIfor 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 variablesshown in the error (for example, the undefined storage-policy and trust variables) and re-apply the correctedworkload.yaml.

NEW QUESTION # 71
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