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VMware Advanced VMware Cloud Foundation 9.0 vSphere Kubernetes Service Sample Questions (Q55-Q60):

NEW QUESTION # 55

A DevOps Engineer attempts to deploy a database VM using the following YAML manifest, but the kubectl apply command results in the object staying in a pending state, and kubectl get virtualmachine shows a failure condition.

```
# postgres-vm.yaml
apiVersion: vmoperator.vmware.com/v1alpha1
kind: VirtualMachine
metadata:
  name: pg-db-01
  namespace: dev-playground
spec:
  className: guaranteed-xlarge
  imageName: centos-8-stream-v10.ova
  powerState: poweredOn
```

The VI Administrator checks the dev-playground namespace status:

```
nsx-cli> get namespace dev-playground
```

...

VM Service: Enabled

Assigned VM Classes:

- best-effort-small
- guaranteed-medium

Assigned Content Libraries:

- K8s-Images (Contains: centos-8-stream-v10.ova)

...

What is the root cause of the provisioning failure?

- A. The VM Class **guaranteed-xlarge** requested in the YAML is not assigned to the dev-playground namespace.
- B. The imageName must include the full Content Library path (e.g., lib/K8s-Images/centos-8-stream- v10.ova).
- C. The VM Service is not compatible with CentOS 8 Stream images.
- D. The powerState field is invalid; VMs are powered on by default.

Answer: A

NEW QUESTION # 56

A VI Administrator needs to configure a Supervisor Cluster to download the latest supported Tanzu Kubernetes releases automatically from VMware over the internet.

Review the configuration steps:

1. Navigate to vSphere Client > Content Libraries.
2. Click Create New Content Library.
3. Name: Tanzu-Kubernetes-Lib.

Which specific settings must be applied in the subsequent configuration screens to meet the requirement?

- A. Select Subscribed content library and choose the option "Enable publishing".
- B. Select Local content library and enable "Optimize for syncing".
- C. Select Local content library and manually upload the OVAs downloaded from Customer Connect.
- D. **Select Subscribed content library and provide the official VMware TKG subscription URL.**

Answer: D

NEW QUESTION # 57

A Platform Engineer is optimizing resource density for a high-volume batch processing workload. The workload consists of thousands of short-lived tasks that start and stop rapidly. The overhead of reserving memory for a full Guest OS for each task is a concern.

Review the following resource profile for a single task instance:

Task Runtime: < 2 minutes

CPU: High bursts

Memory: 512 MB

OS Dependency: Generic Linux userspace

Why are vSphere Pods the architecturally superior choice over TKG cluster nodes for this specific scenario? (Select all that apply.)

- A. **vSphere Pods eliminate the memory overhead of a full Guest OS per pod, as the CRX is extremely lightweight compared to a TKG Worker Node VM.**
- B. TKG clusters do not support batch processing jobs.
- C. **vSphere Pods (via the Supervisor) can schedule pods directly onto ESXi hosts, removing the "double scheduler" latency (Kubernetes scheduler + vSphere scheduler) associated with TKG VMs.**
- D. vSphere Pods do not consume any license capacity.
- E. **vSphere Pods support overcommitment of memory more efficiently than TKG nodes because the ESXi hypervisor has direct visibility into the pod's memory pages.**

Answer: A,C,E

NEW QUESTION # 58

An architect is working on the data protection design for a VMware Cloud Foundation (VCF) solution. The solution consists of a single Workload Domain that has vSphere Supervisor activated. During a customer workshop, the customer requested that vSphere Pods must be used for a number of third-party applications that have to be protected via backup. Which backup method or tool should be proposed by the architect to satisfy this requirement?

- A. Standalone Velero with Restic.
- B. vCenter file-based backup.
- **C. Velero Plugin for vSphere.**
- D. vSAN Snapshots.

Answer: C

Explanation:

VCF 9.0 distinguishes between backing up the Supervisor control plane and backing up workloads that run on the Supervisor, including vSphere Pods. In the "Considerations for Backing Up and Restoring Workload Management" table, the scenario "Backup and restore vSphere Pods" explicitly lists the required tool as "Velero Plugin for vSphere", with the guidance to "Install and configure the plug-in on the Supervisor." The same document is explicit that standalone Velero with Restic is not valid for vSphere Pods, stating: "You cannot use Velero standalone with Restic to backup and restore vSphere Pods. You must use the Velero Plugin for vSphere installed on the Supervisor." vCenter file-based backup is documented for restoring the Supervisor control plane state, not for backing up and restoring vSphere Pod workloads themselves. Therefore, to meet the requirement to protect third-party applications running as vSphere Pods, the architect should propose the Velero Plugin for vSphere.

NEW QUESTION # 59

An administrator has been tasked with enabling backup for a vSphere Kubernetes cluster. How does the administrator configure a backup?

- A. Set the BackupStorageLocation in Velero to use the storage allocated to the namespace for the cluster.
- B. Take a vSAN snapshot of the virtual machines the cluster is deployed on.
- C. Use vSphere Replication to back up the virtual machines the cluster is deployed on.
- **D. Set the BackupStorageLocation in Velero to an S3-compatible object store.**

Answer: D

Explanation:

In VCF 9.0 Workload Management, workload backup for VKS clusters (and vSphere Pods) is performed using Velero, specifically the Velero Plugin for vSphere for Supervisor/VKS scenarios. The documentation describes that you must first provide an S3-compatible object store as part of installing and configuring the Velero Plugin for vSphere, because backup data (Kubernetes metadata and volume snapshot data movement) relies on object storage rather than "namespace storage." The backup workflow further indicates that when you create a backup, the system uploads Kubernetes metadata to the object store, and persistent volume snapshot handling is coordinated through the plugin components (Snapshot/Upload custom resources). Therefore, the correct configuration pattern is to point Velero's backup target (BackupStorageLocation) at an S3-compatible object store endpoint so metadata and snapshot payloads have a durable destination. This aligns with the documented prerequisite that object storage is required to enable backup/restore operations for persistent workloads, and it is the mechanism Velero uses to store backup artifacts for later restore operations in VKS environments.

NEW QUESTION # 60

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