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VMware 3V0-24.25 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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"> • 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	<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 5	<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.

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VMware Advanced VMware Cloud Foundation 9.0 vSphere Kubernetes Service Sample Questions (Q32-Q37):

NEW QUESTION # 32

An administrator is maintaining several Kubernetes clusters deployed through a Supervisor Namespace in a vSphere Kubernetes Service environment. One of the microservices, a containerized API gateway, has started failing intermittently after a recent configuration update. Initial investigation shows that the pod is entering a CrashLoopBackOff state. The administrator needs to collect detailed runtime information directly from the pod, including both the standard output (STDOUT) and standard error (STDERR) streams, to analyze the application's behavior before the crash. Which command produces the required output?

- A. `kubectl events`
- B. `kubectl describe`
- C. `kubectl logs`
- D. `kubectl get all`

Answer: C

Explanation:

In VMware Cloud Foundation (VCF) 9.0 and vSphere Kubernetes Service (VKS) environments, the `kubectl logs` command is the essential tool for retrieving the standard output (STDOUT) and standard error (STDERR) streams from containers within a pod.

When a microservice like an API gateway enters a `CrashLoopBackOff` state, it signifies that the container is starting, failing, and being restarted by the kubelet in an exponential back-off loop. To diagnose the root cause—such as a syntax error in a configuration file or a failed connection to a backend database—the administrator must inspect the application's internal execution logs.

The `kubectl logs` command is particularly powerful in this scenario when used with the `-p` (or `--previous`) flag.

This flag allows the administrator to retrieve logs from the specific container instance that just crashed, rather than the one currently attempting to restart. While `kubectl describe` provides critical metadata about the pod's lifecycle events, resource constraints, and status, it does not capture the internal application stream. In VCF

9.0, where the vSphere Supervisor manages the lifecycle of these clusters, utilizing the standard Kubernetes toolset ensures that platform operators have a consistent and familiar troubleshooting experience. This logging mechanism is a core part of the observability stack in VKS, enabling rapid identification of application-level failures within the software-defined data center.

NEW QUESTION # 33

A Cloud Administrator initiates a Supervisor upgrade. The process hangs at 55% for an extended period. The administrator checks the vCenter events and sees:

Event: Supervisor Upgrade Stalled

Detail: Waiting for Control Plane VM 'Supervisor-Control-Plane-VM-02' to power on.

Error: The operation failed due to a file lock on the datastore '[vsanDatastore]'.

Further investigation reveals that a backup job from a third-party tool is currently running on the old Control Plane VMs, holding a lock on the VM files.

What is the correct remediation to allow the upgrade to proceed? (Choose 2.)

- A. Restart the vCenter Server service.
- **B. Cancel the backup job to release the file locks.**
- C. Migrate the Supervisor to a different datastore during the upgrade.
- D. Manually delete the 'Supervisor-Control-Plane-VM-02' from disk.
- **E. The upgrade process will automatically retry once the locks are released; no manual intervention is strictly required if the backup finishes within the timeout window, but cancelling is the immediate fix.**

Answer: B,E

NEW QUESTION # 34

What three components run in a VMware vSphere Kubernetes Service (VKS) cluster? (Choose three.)

- **A. Container Network Interface**
- **B. Cloud Provider Implementation**
- C. Cloud Provider Interface
- D. Container Network Implementation
- **E. Container Storage Interface**
- F. Cloud Storage Implementation

Answer: A,B,E

Explanation:

VCF 9.0 explicitly lists the components that run in a VKS cluster and groups them into areas such as authentication/authorization, storage integration, pod networking, and load balancing. In that list, the documentation names: "Container Storage Interface Plugin" (a paravirtual CSI plug-in that integrates with CNS through the Supervisor), "Container Network Interface Plug-in" (a CNI plugin that provides pod networking), and "Cloud Provider Implementation" (supports creating Kubernetes load balancer services).

These three items map directly to the answer choices D (Container Storage Interface), F (Container Network Interface), and A (Cloud Provider Implementation). The same VCF 9.0 section also mentions an authentication webhook, but that component is not offered as a selectable option in this question, so the best three matches among the provided choices are the CSI, CNI, and cloud provider implementation entries that the document explicitly states are present inside a VKS cluster.

NEW QUESTION # 35

A Platform Engineer is designing an auto-scaling strategy for a cluster hosting a machine learning workload. The workload creates transient "Job" pods that require significant GPU resources.

Requirements:

1. The cluster usually runs with 2 worker nodes.
2. When a ML job starts, it might request 10+ pods, each needing a full GPU.
3. The cluster must scale up to satisfy these requests and scale down to 0 or 2 when idle to save costs.
4. There is a limited number of GPU-capable hosts in the vSphere cluster.

Which design considerations are critical for the correct functioning of the Cluster Autoscaler in this scenario? (Choose 2.)

- A. The workload Pods must use podAntiAffinity to ensure they are scheduled on the Control Plane nodes.
- **B. The Tanzu Kubernetes Cluster YAML must define a separate worker node pool specifically using a GPU-enabled VM Class (e.g., gpu-large).**
- C. The Cluster Autoscaler must be configured to ignore GPU resource requests because vSphere handles GPU assignment via DRS.
- **D. The vSphere Namespace must have a resource quota that allows for the maximum potential CPU/Memory/GPU usage of the scaled-out cluster (e.g., sufficient for 12+ nodes).**
- E. The min-size for the GPU node pool should be set to 0 (Zero) to allow scaling from zero, assuming the VKS version supports scale-from-zero behavior.

Answer: B,D

NEW QUESTION # 36

Which type of storage is used by VMware vSphere Kubernetes Service (VKS) pods to store non-persistent data?

- A. Container image storage
- B. vSphere local storage
- C. Object storage
- **D. Ephemeral storage**

Answer: D

Explanation:

In Kubernetes terms, non-persistent pod data (for example, transient logs and scratch space) is handled by ephemeral storage, meaning the data exists only for the lifetime of the pod/workload and is not meant to survive beyond it. In the VCF Workload Management documentation, this concept is described directly: a pod requires ephemeral storage to store transient Kubernetes objects such as "logs" and "emptyDir volumes," and this ephemeral (transient) storage "lasts as long as the pod continues to exist," disappearing when the pod reaches end of life.









While VKS clusters can also consume persistent storage through storage classes and CSI integration for stateful needs, that is specifically for data that must be retained (persistent volumes/claims). The question asks specifically about non-persistent pod data, which aligns with the documented ephemeral/transient storage behavior for pod runtime needs. Therefore, the correct choice is Ephemeral storage.

NEW QUESTION # 37

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