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VMware 3V0-24.25 Exam Syllabus Topics:

Section	Objectives
VMware Products and Solutions	- Describe vSphere Kubernetes Service (VKS) capabilities - Identify and describe VMware Cloud Foundation components - Explain integration with other VMware products - Understand vSphere Supervisor architecture

Install, Configure, Administrate the VMware Solution	- Perform day-two operations (updates, user provisioning, resource allocation) - Manage compute, storage, and network layers - Configure vSphere Kubernetes Service environments - Deploy VMware Cloud Foundation clusters
Troubleshoot and Optimize the VMware Solution	- Interpret system logs and alerts - Diagnose performance issues - Ensure high availability and fault tolerance - Apply remediation steps - Resolve configuration conflicts - Optimize resource utilization
Plan and Design	- Plan for scalability and performance - Architect solutions for business requirements - Design for high availability and disaster recovery - Design infrastructure for Kubernetes workloads

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VMware Advanced VMware Cloud Foundation 9.0 vSphere Kubernetes Service Sample Questions (Q17-Q22):

NEW QUESTION # 17

An administrator is modernizing the internal HR and payroll applications using vSphere Kubernetes Service (VKS). The applications are composed of multiple microservices deployed across Kubernetes clusters, fronted by Ingress controllers that route user traffic through Avi Kubernetes Operator. During testing, it is discovered that manually creating and renewing TLS certificates for each Ingress resource is error-prone and leads to periodic outages when certificates expire. The requirements also mandate that all application endpoints use trusted certificates issued through the corporate certificate authority (CA) with automatic renewal and rotation.

Which requirement can be met by using cert-manager?

- A. Routing requests based on HTTP headers.
- **B. Adding certificates and certificate issuers as resource types in Kubernetes clusters.**
- C. Scanning container images stored in Harbor.
- D. Generating certificates by connecting only to external services.

Answer: B

Explanation:

cert-manager addresses the operational risk described (manual creation/renewal causing outages) by making certificate lifecycle management anative, declarative Kubernetes workflow. Instead of treating TLS certificates as manually managed files, cert-manager extends the Kubernetes API with custom resources such as Certificate, Issuer, and ClusterIssuer, so certificates and their issuing policies become first-class objects that can be version-controlled and automatically reconciled. This directly satisfies the requirement to use trusted certificates issued through the corporate CA, because an Issuer/ClusterIssuer can represent that corporate CA integration and define how certificate requests are fulfilled. Once configured, cert-manager continuously monitors certificate validity and automatically renews and rotates certificates before expiration, then updates the referenced Kubernetes Secrets so Ingress endpoints remain protected without human intervention. In a vSphere Supervisor / VKS environment, VMware also uses cert-manager on the Supervisor for automated certificate rotation in platform integrations (for example, rotating certificates used by monitoring components), reinforcing the model of automated rotation rather than manual certificate handling.

NEW QUESTION # 18

A Platform Engineer is attempting to upgrade a TKG cluster dev-cluster to Kubernetes version v1.24.9. However, the upgrade validation fails with the error Image not found.

The engineer checks the available versions in the namespace:

```
$ kubectl get tkr
```

```
NAME VERSION COMPATIBLE
```

```
v1.22.9---vmware.1-tkg.1 v1.22.9+vmware.1 True
```

```
v1.23.8---vmware.1-tkg.1 v1.23.8+vmware.1 True
```

The VI Administrator checks the Content Library Tanzu-Lib in vCenter and confirms that the OVF template for v1.24.9 is present and synced.

What is the most likely reason the TKG cluster cannot see the new version? (Choose 2.)

- A. The new TKR version (v1.24.9) is not compatible with the current version of the Supervisor Cluster (Control Plane).
- B. The TKG cluster is paused.
- C. The developer needs to update their kubectl client version first.
- D. The Content Library Tanzu-Lib has not been assigned/added to the dev-namespace where the cluster resides.
- E. The TKR object for v1.24.9 has not yet reconciled or been generated by the Supervisor because the Content Library synchronization is incomplete or corrupt for that specific item.

Answer: A,E

NEW QUESTION # 19

A VI Administrator is planning to upgrade a Supervisor Cluster. The pre-check validation fails with an error indicating insufficient resources.

Review the current resource usage of the Supervisor Control Plane (3 VMs):

Control Plane Size: Small

Total CPU Reservation: 6000 MHz (2000 MHz per VM)

Total Memory Reservation: 24 GB (8 GB per VM)

Resource Pool 'Namespaces' Capacity:

CPU: 7000 MHz

Memory: 26 GB

The upgrade process requires deploying a fourth Control Plane VM temporarily to perform the rolling update.

What is the most likely cause of the pre-check failure?

- A. The ESXi hosts are in maintenance mode.
- B. The Management Network IP pool is exhausted.
- C. The storage datastore is full.
- D. The 'Namespaces' Resource Pool does not have enough unreserved CPU and Memory capacity to power on the fourth (surge) Control Plane VM required for the rolling upgrade.

Answer: D

NEW QUESTION # 20

A Platform Engineer is designing a multi-zone Supervisor architecture to support a high-availability requirement for a critical financial application. The design involves three vSphere Zones: Zone-A, Zone-B, and Zone-C.

The engineer needs to create a vSphere Namespace fin-app-ns that can tolerate the failure of any single zone.

Review the following proposed configuration snippet for the Namespace creation:

```
# Proposed Namespace Configuration Logic
```

```
Name: fin-app-ns
```

```
Placement:
```

```
Zones:
```

```
- Zone-A
```

```
- Zone-B
```

```
Storage Policies:
```

```
- gold-storage-policy (assigned to all zones)
```

Why is this proposed configuration insufficient to meet the "tolerate failure of any single zone" requirement for the Supervisor Control Plane and the workloads within this namespace? (Choose 2.)

- A. The storage policy must be different for each zone to ensure replication.

- B. A 3-zone Supervisor deployment is required to support the Supervisor Control Plane's high availability; restricting the Namespace to only two zones (A and B) prevents the Supervisor from placing control plane VMs in the third zone if one fails.
- C. The configuration is actually valid; vSphere HA will handle the failover between Zone A and Zone
- D. vSphere Namespaces do not support multi-zone placement; they must be pinned to a single cluster.
- E. Kubernetes control planes typically require an odd number of members (e.g., 3) distributed across failure domains to maintain quorum (etcd) during a partition. Using only 2 zones risks split-brain scenarios.

Answer: B,E

NEW QUESTION # 21

A Cloud Administrator is evaluating the use of Custom Ingress Controllers (e.g., Contour, Nginx) versus the Native NSX Load Balancer for handling Layer 7 traffic in a vSphere with Tanzu environment.

The goal is to support advanced traffic shaping, such as header-based routing and TLS termination at the ingress layer, while minimizing the consumption of Load Balancer VIPs (Virtual IPs) from the limited pool.

Why would deploying a Custom Ingress Controller (like Contour) via a TKG Extension be architecturally preferable to using type: LoadBalancer for every service? (Select all that apply.)

- A. A Custom Ingress Controller consumes only one Load Balancer VIP (L4) to expose itself, and then routes traffic to multiple internal services based on Host/Path rules (L7), significantly conserving VIPs.
- B. Custom Ingress Controllers run as Pods inside the cluster, allowing developers to define routing rules via Ingress or HTTPProxy resources without requiring vSphere Administrator intervention for every rule change.
- C. The Native NSX Load Balancer (in the context of type: LoadBalancer) primarily operates at Layer 4 (TCP/UDP); advanced L7 features often require an Ingress Controller layer on top.
- D. Using a Custom Ingress Controller removes the need for NSX entirely.
- E. Custom Ingress Controllers automatically bypass the SNAT rules of the namespace.

Answer: A,B,C

NEW QUESTION # 22

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