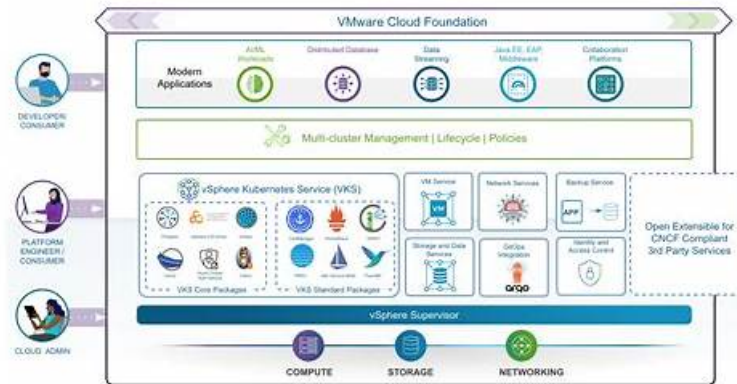


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VMware 3V0-24.25 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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"> 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 4	<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 5	<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.

VMware Advanced VMware Cloud Foundation 9.0 vSphere Kubernetes Service Sample Questions (Q37-Q42):

NEW QUESTION # 37

What Kubernetes component is responsible for workload creation?

- A. Kubelet
- B. etcd
- C. API Server
- D. Scheduler

Answer: A

Explanation:

In Kubernetes, the component that actually creates and runs workloads on a node is the kubelet. The kubelet is the node agent that ensures the containers described by PodSpecs are running on that node. VCF 9.0 maps this concept directly into vSphere Supervisor by describing Spherelet as "a kubelet that is ported natively to ESXi and allows the ESXi host to become part of the Kubernetes cluster," showing that kubelet functionality is responsible for running workloads on worker nodes (ESXi hosts in the Supervisor case).

The other options have different roles: etcd is the control plane data store, API Server is the front-end for Kubernetes API operations, and the Scheduler decides placement (which node should run a pod). VCF 9.0 even calls out that "the Kubernetes scheduler... cannot place pods intelligently" without visibility into vCenter inventory-reinforcing that scheduling is about placement decisions, not the act of creating/running the workload on the node.

So, while the scheduler selects where a pod should run, the kubelet is the component responsible for actually instantiating and maintaining the workload on the target node.

NEW QUESTION # 38

A Platform Engineer is deploying a StatefulSet in a vSphere Namespace. The application requires "Gold" tier storage which is backed by an All-Flash vSAN cluster. The vSphere Administrator has already created the "Gold-Storage-Policy" in vCenter.

Review the Namespace configuration:

Namespace: app-prod

Storage Policies:

- Silver-Storage-Policy (Default)
- Gold-Storage-Policy

What must the engineer specify in the PersistentVolumeClaim (PVC) manifest to ensure the volume is provisioned on the All-Flash vSAN using the correct policy?

- A. accessModes: ReadWriteMany
- B. volumeMode: Block
- C. storageClassName: vsan-default
- D. storageClassName: Gold-Storage-Policy

Answer: D

NEW QUESTION # 39

A Cloud Administrator wants to deploy the Velero Supervisor Service to enable backup capabilities for vSphere Namespaces. The target is an S3-compatible object store.

Review the velero-install-config.yaml values file prepared for the installation:

```
backupStorageLocation:  
  name: default  
  provider: aws  
  bucket: vks-backups  
  config:  
    region: minio  
  s3Url: https://minio.corp.local:9000  
volumeSnapshotLocation:  
  name: default  
  provider: csi  
# Missing Section: Credentials
```

The administrator attempts to install the service using the vcf-cli (or kubectl plugin) but it fails immediately.

What critical configuration component is missing from the workflow? (Select all that apply.)

- A. The volumeSnapshotLocation must be set to aws, not csi.
- B. The s3Url must be a public AWS URL; local S3 endpoints are not supported.
- C. The install command or configuration YAML must explicitly reference the credential secret name so Velero can authenticate to the S3 bucket.
- D. The Supervisor must be put into Maintenance Mode to install a Data Protection service.
- E. A Kubernetes Secret containing the AWS Access Key ID and Secret Access Key must be created in the destination namespace before or during the service installation.

Answer: C,E

NEW QUESTION # 40

What statement describes Cluster API?

- A. It is a native Kubernetes certificate management controller that adds certificates and certificate issuers as resource types in Kubernetes clusters.
- B. It enables pod networking and enforces network Kubernetes policies.
- C. It is a specialized toolset to bring declarative cluster creation, configuration, and management in the Kubernetes ecosystem.
- D. It is responsible for scanning language-specific packages in container images, such as Java, Python, Go, and others.

Answer: C

Explanation:

Cluster API (CAPI) is a foundational Kubernetes sub-project integrated into VMware Cloud Foundation (VCF) 9.0 via the vSphere Kubernetes Service (VKS). It is designed to bring declarative, Kubernetes-style APIs to cluster creation, configuration, and management. In a VCF environment, the vSphere Supervisor acts as the "Management Cluster," utilizing CAPI to automate the entire lifecycle of workload clusters (formerly known as TKG clusters).

Instead of requiring manual infrastructure provisioning, CAPI allows administrators to define the desired state of a Kubernetes cluster—including its version, node count, and underlying hardware resources—using YAML manifests. The vSphere Kubernetes Service then works to reconcile the current state of the infrastructure with this defined desired state. This transition to declarative management is a core component of VCF 9.0, as it enables "Kubernetes-on-Kubernetes" orchestration. This ensures that Day 1 operations (deployment) and Day 2 operations (scaling, patching, and upgrading) are consistent, repeatable, and less prone to human error.

While other options describe components like cert-manager (Option A), Container Network Interfaces (Option C), or vulnerability scanners (Option D), only Option B accurately identifies CAPI's role as the engine for automated, policy-driven cluster lifecycle management within the VMware SDDC stack.

NEW QUESTION # 41

Which of the following best describes the primary function of a vSphere Namespace within a vSphere with Tanzu environment?

- A. It is a networking construct that provides isolation at Layer 2 for TKG clusters.
- B. It is a construct that maps 1:1 to a vCenter Server cluster for high availability.
- C. It is a logical boundary that encapsulates a set of virtual machines for resource management.
- D. It is a resource boundary backed by a Resource Pool that allows vSphere administrators to set limits on CPU, memory, and storage for a set of Kubernetes workloads.

Answer: D

NEW QUESTION # 42

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