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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 3V0-21.25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> • Operation Management: This section focuses on monitoring and managing operational aspects of VMware Cloud Foundation Automation. It includes using VMware operations tools to monitor automation services, provider management, and organizational environments.
Topic 2	<ul style="list-style-type: none"> • Install, Configure, Administrate the VMware Solution: This section covers configuring and administering VMware Cloud Foundation Automation environments. It includes managing provider portals, organizations, integrations, governance policies, resource deployments, automation workflows, blueprints, and orchestrator components.

Topic 3	<ul style="list-style-type: none"> IT Architectures, Technologies, Standards: This section focuses on understanding fundamental IT architectures, technologies, and industry standards that support VMware Cloud Foundation environments. It ensures candidates understand the foundational concepts required to design and manage automated cloud infrastructure solutions.
Topic 4	<ul style="list-style-type: none"> VMware Products and Solutions: This section covers VMware products related to VMware Cloud Foundation Automation, particularly components such as vSphere Supervisor and supervisor-based NSX networking. It focuses on identifying and differentiating architectural components and how they function within a deployment.
Topic 5	<ul style="list-style-type: none"> Plan and Design the VMware Solution: This section focuses on designing VMware Cloud Foundation Automation environments based on business and technical requirements. It includes understanding tenancy deployment models, organization types, and the functional components used to structure and manage cloud resources.

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VMware Advanced VMware Cloud Foundation 9.0 Automation Sample Questions (Q46-Q51):

NEW QUESTION # 46

An administrator is responsible for managing a VMware Cloud Foundation (VCF) fleet and the administrator has been tasked with the following:

* Create DNS records before each virtual machine (VM) is deployed using VCF Automation.

The administrator has already completed the following tasks:

* Created two VCF Operations Orchestrator Workflows with corresponding Event Subscriptions:

* Create DNS Record

* Delete DNS Record

* Created a new blueprint to deploy a VM:

* Added two string inputs, `hostname` and `domainName`

* Added `hostname: '${input.hostname}'` as a custom property of the Virtual Machine resource.

* Added `domainName: '${input.domainName}'` as a custom property of the Virtual Machine resource.

What should the administrator configure within the Event subscription to ensure that the DNS record is only created when the `hostname` is provided?

- A. Enable the Block execution of events in topic option in the Create DNS Record and Delete DNS Record subscriptions.
- B. Add the Delete DNS Record workflow as the Recovery Workflow of the Create DNS Record subscription.
- C. Add the event.data.customproperties['hostname'] != null condition to the Create DNS Record and Delete DNS Record subscriptions.
- D. Add the event.data.customproperties['domainName'] != null condition to the Create DNS Record and Delete DNS Record subscriptions.

Answer: C

Explanation:

VCF Automation 9.0 utilizes an Event Broker Service (EBS) to trigger extensibility workflows during the lifecycle of a deployment. For a DNS integration to function correctly and reliably, the event subscription must be "scoped" to prevent it from firing when essential metadata is missing. In this scenario, the administrator has mapped the user input `hostname` to a custom property of the virtual machine. By adding the condition `event.data.customproperties['hostname'] != null` to the subscription, the platform evaluates

the payload before invoking the Operations Orchestrator workflow. If the consumer leaves the `hostname` field empty (assuming it is not marked as mandatory in the blueprint), the condition will evaluate to false, and the DNS creation workflow will not be triggered, preventing "empty" or invalid records from being sent to the DNS provider. This logic must be applied to both the creation and deletion subscriptions to maintain parity throughout the VM's lifecycle. Using the `customproperties` array within the `event.data` payload is the standard method for referencing blueprint-specific inputs within the VCF 9.0 extensibility framework.

NEW QUESTION # 47

The product development team is rolling out several new application stacks and require a self-service option to deploy their applications quickly and consistently. The requirements are:

- * Present only approved application configurations.
- * No manual configuration within a blueprint.

Which VMware Cloud Foundation (VCF) Automation approach meets these requirements?

- A. Publish pre-approved blueprints to a catalog and allow the team to choose infrastructure options such as compute cluster and storage policy during deployment.
- B. Publish all available blueprints to a catalog so team members can choose what is required and adjust configurations as needed at request time.
- C. Integrate VCFA with a Git repository containing blueprint YAML files and train the team to update infrastructure parameters properly before committing changes.
- **D. Publish pre-approved blueprints with all required inputs preconfigured to a catalog so team members can deploy them directly.**

Answer: D

Explanation:

To achieve the goal of "quick and consistent" deployments with "no manual configuration," the administrator must leverage preconfigured catalog items. In VCF 9.0 Automation, this is achieved by creating blueprints where all variables (such as CPU, RAM, and network segments) are either hardcoded or driven by hidden logic, and then publishing these as Catalog Items with specific Custom Forms. By providing blueprints with all required inputs preconfigured, the platform eliminates the "request-time" complexity that leads to configuration errors or environment drift. This approach ensures that the development team only sees a "click-to-deploy" interface for approved application stacks. Unlike Option A or B, which introduce user-driven variability, or Option C, which requires manual Git interaction, this model provides a highly governed, "golden-image" style of infrastructure consumption that aligns perfectly with the requirement for zero manual configuration by the end-user.

NEW QUESTION # 48

An administrator is reviewing the network topology of an AllApps Organization. They notice that while each Virtual Private Cloud (VPC) has its own private address space, there is a common component that handles the routing between these VPCs and the corporate backbone.

What is this component?

- A. NSX Tier-1 Gateway
- B. NSX Edge Cluster
- **C. NSX Transit Gateway**
- D. Distributed Logical Router

Answer: C

Explanation:

The NSX Transit Gateway (TGW) is the architectural cornerstone of regional networking in VCF 9.0. In previous versions, administrators had to manually manage complex Tier-0/Tier-1 relationships for each tenant; however, VCF 9.0 abstracts this through the TGW. When a Region is created, the system automatically instantiates the Transit Gateway to act as the high-speed "backplane" for the organization.

Every VPC created within that region connects to this TGW, which then handles all East-West traffic between VPCs and North-South traffic toward the corporate WAN or Internet. This design ensures that the routing logic is consistent, automated, and isolated from the physical underlying fabric. The TGW works in conjunction with VPC Connectivity Profiles to determine if a VPC is completely isolated or has an external path, providing a scalable and secure way to manage hundreds of isolated network segments without manual intervention.

NEW QUESTION # 49

An administrator is deploying a Supervisor cluster in VMware Cloud Foundation (VCF) Automation and notices that only one vSphere zone is configured in the deployment workflow.

Which statement best describes the capabilities of the Supervisor cluster being deployed?

- A. The cluster will span multiple vSphere clusters for high availability.
- **B. The cluster will not have zone-level fault isolation.**
- C. The cluster will automatically upgrade to multi-zone when additional zones are provided.
- D. The cluster enables the use of a single control plane across multiple vCenter instances.

Answer: B

Explanation:

VCF 9.0 supports both Single-Zone and Multi-Zone Supervisor cluster deployments. In a single-zone deployment, all Supervisor control plane VMs and worker nodes reside within a single logical and physical fault domain (a single vSphere cluster). Consequently, the cluster will not have zone-level fault isolation. If the underlying hardware, power, or top-of-rack switch for that specific zone fails, the entire Supervisor instance and all hosted workloads (VMs and Pods) will go offline. Multi-zone clusters, by contrast, distribute nodes across three distinct zones to ensure that the control plane and workloads can survive the complete loss of one zone. While a single-zone cluster is suitable for non-critical development or testing, it represents a significant risk for production environments that require the high-availability and fault-tolerance features inherent to the VCF 9.0 multi-zone architecture.

NEW QUESTION # 50

Which VCF component is responsible for the automated lifecycle management (patching and upgrading) of the VCF Automation and VCF Operations appliances?

- **A. SDDC Manager**
- B. VCF Operations Orchestrator
- C. vSphere Lifecycle Manager (vLCM)
- D. VMware Aria Suite Lifecycle

Answer: A

Explanation:

In VCF 9.0, SDDC Manager is the centralized "source of truth" and lifecycle engine for the entire software-defined data center. While older versions of the stack relied on multiple standalone lifecycle managers, VCF 9.0 continues to consolidate these functions. SDDC Manager handles the end-to-end patching and upgrading of the management components, including the VCF Automation and VCF Operations appliances. It ensures that all components remain within a "Validated Solution" versioning matrix, preventing compatibility issues that could arise from manual upgrades. SDDC Manager orchestrates the download of bundles, performs pre-checks, and manages the non-disruptive rolling upgrades of these services, allowing the administrator to maintain a secure and up-to-date private cloud with minimal manual intervention.

NEW QUESTION # 51

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