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VMware Cloud Foundation 9.0 Support Sample Questions (Q21-Q26):

NEW QUESTION # 21

A VMware NSX Edge node is present in the inventory but shows "Not Ready" status In NSX Manager UI. What should the administrator check first?

- A. The NSX Edge node's uplink network configuration
- B. The license key in NSX Manager UI
- C. The NSX Edge node's CPU reservation
- D. The NSX Edge has been added to an Edge cluster

Answer: A

Explanation:

The status "Node Not Ready" in the NSX Manager UI (specifically in the Configuration State column of the Edge Transport Nodes view) indicates that the NSX Manager has failed to push or validate the necessary configuration to the Edge VM.

* Check Uplink Network Configuration (Option C): This is the most common cause for a "Node Not Ready" state during

deployment or operation. For an Edge Node to be "Ready" (Success/Up), it must have a valid Transport Node configuration, which includes the Uplink Profile, IP Pool (for TEPs), and mapping to the Fastpath Interfaces (N-VDS). If the uplink configuration is missing, incorrect, or the management plane cannot communicate with the edge to apply it, the node remains in a "Not Ready" state.

* Why not Option A? While an Edge must be in an Edge Cluster to be utilized by a Tier-0 Gateway, a standalone Edge Node should still report a status of "Success" (Configuration) and "Up" (Node Status) if it is healthy. Adding a "Not Ready" (unhealthy/unconfigured) node to a cluster will not fix the underlying configuration issue.

* Why not Option D? Missing CPU reservations typically lead to a "Degraded" status or service crashes (Dataplane down), but "Node Not Ready" is the specific indicator of an incomplete or stalled configuration workflow, usually tied to the transport/uplink setup.

NEW QUESTION # 22

An administrator is responsible for managing a VMware Cloud Foundation (VCF) fleet. The administrator discovers intermittent performance issues with the supplemental storage (iSCSI) connected to VCF workload domain. The administrator discovers that the (iSCSI) target is reachable from most VMware ESX hosts, but some hosts consistently experience periods of slow I/O and connection drops.

Which two actions should the administrator take to diagnose and resolve this issue? (Choose two.)

- A. Examine the iSCSI VMkernel port on all affected ESX hosts for TCP retransmissions and checksum offload errors.
- B. Ensure all ESX hosts have the VMkernel port MTU set to 9000.
- C. Ensure all ESX hosts have the VMkernel port MTU set to 1500.
- D. Update the network plugin on the ESX host to the latest version.
- E. Review the iSCSI target's configuration to ensure it's configured for maximum performance, including enabling CHAP authentication.

Answer: A,B

Explanation:

To diagnose and resolve the intermittent performance and connection drop issues with the supplemental iSCSI storage, the administrator should focus on network layer consistency and health, particularly regarding packet size (MTU) and delivery (TCP).

* Examine the iSCSI VMkernel port for TCP retransmissions (Action B - Diagnose): "Intermittent" connection drops and slow I/O are classic symptoms of packet loss or fragmentation issues. By examining the ESXi network stats (e.g., using esxtop key n or viewing vSphere performance charts) for TCP retransmissions, the administrator can confirm if packets are being dropped or lost in transit.

Checksum offload errors can also indicate issues where the NIC hardware is incorrectly validating packets, causing the OS to drop them. This step identifies the root cause (packet loss/corruption).

* Ensure all ESX hosts have the VMkernel port MTU set to 9000 (Action E - Resolve): For high-performance storage traffic like iSCSI in a VMware Cloud Foundation environment, it is best practice to use Jumbo Frames (MTU 9000) end-to-end (Host -> Switch -> Storage Array).

* The symptom that some hosts are affected suggests configuration drift where those specific hosts might be set to a different MTU (e.g., 1500) or are mismatched with the physical network/target (which is likely set to 9000 for performance).

* An MTU mismatch (e.g., Target sending 9000-byte frames to a Host/Switch expecting 1500) typically results in the "Do Not Fragment" (DF) bit causing packet drops, leading to the reported connection drops and retransmission delays. Ensuring a consistent MTU of 9000 across the fleet resolves this and aligns with VCF performance standards.

Note: Option A (CHAP) is for authentication security, not performance. Option C (Update network plugin) is a lifecycle task but less likely to be the immediate fix for "some hosts" having intermittent drops compared to the common issue of MTU mismatch.

Option D (MTU 1500) would resolve drops if the physical network doesn't support Jumbo Frames, but would degrade performance, making E the preferred resolution for a "performance" storage tier.

NEW QUESTION # 23

An administrator creates a tag for a virtual machine (VM) in VMware Cloud Foundation (VCF) Operations.

When assigning the tag to the virtual machine in vCenter, the tag was not found.

What is the cause of this error?

- A. The vCenter version is incorrect.
- B. VM Tools is not installed.
- C. The tag was not pushed to Custom Groups.
- D. The tag was not pushed to the vCenter instance.

Answer: D

Explanation:

In VMware Cloud Foundation 9.0 Operations, tags created inside VCF Operations do not automatically appear in vCenter. Tags must be explicitly synchronized ("pushed") to the selected vCenter instance before they become usable for VM tagging within vCenter. This is because VCF Operations maintains its own metadata store for tags, super metrics, groups, and policies.

The correct workflow is:

- * Create the tag in VCF Operations.
- * Push (synchronize) the tag to the appropriate vCenter instance.
- * The tag then appears in vCenter's Tags & Custom Attributes section.
- * Administrators can then assign the tag to VMs.

If the push step is skipped, the tag exists only inside VCF Operations and cannot be referenced by vCenter, which is exactly the symptom described: tag not found when attempting to assign it to a VM.

Option A is incorrect because Custom Groups do not affect vCenter tag visibility.

Option B is incorrect because tag synchronization is not tied to a specific vCenter version as long as the vCenter is officially supported by VCF 9.x.

Option D is irrelevant - VMware Tools has nothing to do with tag visibility.

NEW QUESTION # 24

An administrator has a vSphere 8.0 update 3 environment with the following configuration:

- * A 3-node vSAN cluster
- * A vSphere Standard Switch (VSS)
- * Several standalone ESX hosts in the vCenter inventory

They want to convert this vSphere environment into a new VMware Cloud Foundation (VCF) 9.0 management domain.

Identify two changes they will need to make before converting this vSphere environment into a VMWare Cloud Foundation (VCF) Management domain? (Choose two.)

- A. Remove the standalone hosts from the vCenter inventory.
- B. Remove the vSphere Standard Switch from the vCenter Inventory.
- **C. Upgrade vSphere 8.0 Update 3 to vSphere 9.0.**
- **D. Configure a vSphere Distributed Switch.**

Answer: C,D

Explanation:

To convert an existing vSphere environment into a VMware Cloud Foundation (VCF) 9.0 Management Domain, several prerequisites must be met as defined in the VCF 9.x documentation.

First, VCF 9.0 requires vSphere 9.0 as part of its Bill of Materials (BOM). The uploaded VCF 9.0 documentation confirms that VCF 9.0 is built on vSphere 9.0, vCenter 9.0, and NSX versions that align with the 9.x stack. A vSphere 8.0 Update 3 environment is not supported as a foundation for a VCF 9.0 management domain; therefore, the administrator must upgrade the entire vSphere platform to vSphere 9.0 before VCF deployment.

(Reference: VCF 9.0 BOM - vSphere 9.0 is mandatory.)

Second, VCF management domain creation strictly requires vSphere Distributed Switches (vDS). VCF does not support vSphere Standard Switches (VSS) for any management domain hosts. The VCF 9.0 design and deployment guides state that all ESXi hosts intended for a management domain must use vDS for management, vSAN, and vMotion networking. Therefore, the existence of a VSS must be corrected by deploying and configuring a vSphere Distributed Switch and migrating host networking accordingly before Cloud Builder deployment.

Removing standalone hosts or removing a VSS from inventory is not required. Only the hosts selected for the management domain need to be prepared.

Thus, the required changes are:

- #B. Upgrade vSphere 8.0 Update 3 to vSphere 9.0
- #C. Configure a vSphere Distributed Switch

These are the only changes explicitly required by VCF 9.0 documentation.

NEW QUESTION # 25

The administrator has to change the DRS automation level in preparation to upgrade the vCenter. When making this change through VCF Operations, the following error occurs: 'Internal Error: Failed to retrieve vim client'.

What is the possible cause of this error?

- A. DRS Automation is already set on the vSphere Client.
- B. Insufficient licensing for the advanced vCenter features.
- **C. Connectivity issue between vCenter and VCF Operations.**
- D. The vCenter is overloaded with API requests from VCF Operations.

Answer: C

Explanation:

The error:

"Internal Error: Failed to retrieve vim client"

occurs when VCF Operations cannot establish a functional API session with vCenter. The vim client is the internal vSphere API client library used by VCF Operations to perform cluster actions such as modifying DRS settings, powering on/off workloads, or retrieving inventory.

When this error appears, VMware documentation identifies these common root causes:

- * Loss of connectivity between VCF Operations and vCenter
- * DNS resolution issues
- * Network interruption
- * Stale or expired authentication tokens
- * Credential mismatch If the vCenter password was changed manually, VCF Operations may be unable to authenticate.
- * vCenter services restarting or unavailable If vCenter backend services (vpxd, sts, etc.) are unstable, VCF Operations cannot establish a vim session.

Option A is incorrect-DRS automation state in the vSphere Client does not cause vim client retrieval errors.

Option B (vCenter overloaded by API requests) would cause timeouts, not a vim client initialization failure.

Option D (insufficient licensing) affects feature use, not API connectivity.

NEW QUESTION # 26

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