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VMware Cloud Foundation 9.0 Support Sample Questions (Q41-Q46):

NEW QUESTION # 41

An administrator discovers that a VMware Cloud Foundation (VCF) workload domain four-node vSAN cluster is experiencing a network partition. The workload domain vCenter displays a "vSAN duster partition" warning. The performance across the cluster is degraded and the objects are showing as non-compliant.

What could be causing the network partition?

- A. The VLAN was changed on the physical switch port.
- B. The vSAN Witness service was added to the vMotion network.
- C. IGMP snooping is disabled on the multicast group.
- D. Jumbo frames are configured on the vSphere distributed switch (VDS).

Answer: A

Explanation:

A vSAN cluster network partition occurs when vSAN nodes cannot communicate over the designated vSAN network. In VMware Cloud Foundation workload domains, the vSAN network relies on L2 adjacency, consistent VLAN configuration, and stable multicast/BUM behavior (in older versions). VCF 9.0 uses unicast-mode vSAN, so multicast-related issues (such as IGMP snooping configuration) are no longer relevant.

A network partition can occur when the VLAN ID on the physical switch port differs from the VLAN configured on the vSphere Distributed Switch (VDS) for the vSAN VMkernel adapters. The documentation emphasizes that consistent VLAN configuration across the physical and virtual networks is required for proper vSAN cluster communication. If a switch port is reconfigured—intentionally or accidentally—to use a different VLAN, the node becomes isolated from the rest of the vSAN cluster, causing:

- * "vSAN cluster partition" warnings in vCenter
- * degraded performance
- * objects marked as non-compliant
- * resyncs that cannot complete

Option A (IGMP snooping) does not apply because modern vSAN uses unicast, not multicast.

Option C (Jumbo frames) would cause packet loss only if inconsistently configured, but it does not cause a full network partition.

Option D (vSAN Witness on vMotion) is relevant only for stretched clusters and does not cause a partition in a standard four-node cluster.

NEW QUESTION # 42

A VMware Cloud Foundation (VCF) administrator cannot deploy Virtual Machines (VMs) to a compute cluster.

The administrator discovers that the vCLS VMs on the problematic cluster are powered off and cannot be powered on.

What action can the administrator take to enable deployment of VMs?

- A. Set DRS Automation level to fully automated.
- B. **Enable retreat mode on the affected cluster.**
- C. Delete all resource pools in the affected cluster.
- D. Disable HA on the affected cluster.

Answer: B

Explanation:

In vSphere 7+ and VCF-managed clusters, the vSphere Cluster Services (vCLS) VMs must remain powered on for DRS, cluster health, and policy enforcement to function. If the vCLS VMs cannot power on, no workloads—including new VMs—can be deployed to the cluster because vSphere considers the cluster unhealthy.

A common cause is insufficient resources (CPU/memory), datastore issues, or policy conflicts preventing vCLS VMs from starting. VMware provides Retreat Mode as a troubleshooting mechanism to temporarily disable vCLS, allowing the administrator to deploy VMs and correct underlying issues. Enabling retreat mode:

- * Removes vCLS from the cluster
- * Restores ability to deploy VMs
- * Allows remediation of storage/placement issues
- * Can later be disabled to restore DRS health

Option A (deleting resource pools) does not restore vCLS VM power state.

Option B (disabling HA) does not affect vCLS behavior.

Option D (setting DRS automation level) does not correct vCLS placement problems.

NEW QUESTION # 43

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

Answer: B,E

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 # 44

An administrator has been tasked with the deletion of a workload domain within a VMware Cloud Foundation (VCF) instance. The following information has been provided:

* There are two workload domains and a management domain within the VCF instance.

* There is a single vSphere cluster within the workload domain to be deleted.

* There are no user created Virtual Machines in the workload domain cluster.

When performing the deletion in VCF Operations, the task fails at the Gather input for deletion of NSX component stage. The administrator checks the details of the failed task and notices the cause of the error is stated as Cannot read the array length because "<local19>" is null.

What could be the possible cause of this error message?

- A. The NSX Edge cluster for the workload domain was deleted using NSX Manager.
- B. The Network Pools associated with the workload domain were deleted using the vSphere client.
- C. The NSX Manager is shared between the workload domains.
- D. The NSX Edge Cluster Deployment Removal Tool was run against the workload domain.

Answer: A

Explanation:

In VMware Cloud Foundation, deletion of a workload domain requires that VCF Operations can correctly discover and process the NSX components attached to that domain. The workload domain delete workflow explicitly includes removal of the NSX Manager and NSX Edge components associated with the domain, unless those NSX components are shared.

In earlier and current VCF guidance, VMware state that NSX Edge clusters for a workload domain must be removed using the documented/VCF-aware method (for example, using the NSX Edge removal process referenced in KB 78635, not by deleting objects directly in NSX Manager). If an administrator deletes the NSX Edge cluster directly in NSX Manager, the VCF inventory and orchestration logic still "believes" the Edge cluster exists. When the workload domain delete workflow reaches the stage "Gather input for deletion of NSX component", it queries NSX / internal state for Edge cluster data. Because the underlying object has been manually removed, the returned structure is null, which results in an internal "Cannot read the array length because "<local19>" is

null" style error.

Using the NSX Edge Cluster Deployment Removal Tools per documentation keeps VCF and NSX in sync and is the supported path, so option A is not the likely cause. Network pools and shared NSX Manager configurations do not match the specific NSX-component array/null condition described.

NEW QUESTION # 45

An administrator is responsible for managing a VMware Cloud Foundation (VCF) fleet. The following information has been provided about the VCF fleet configuration:

* The VCF fleet consists of a single VCF instance with a single management domain and a single workload domain.
* VCF Automation has a single Organization for VM Apps configured with a VCF Cloud Account for the workload domain. The administrator has been tasked with creating a new Organization for All Apps to support the developers need to deploy Kubernetes-based applications in a new region in a workload domain.

The administrator attempts to create a new region through the VCF Automation Provider Portal but the VMware NSX manager for the workload domain does not appear on the list of available NSX managers.

What action must the administrator complete to resolve the issue?

- A. Add the SDDC Manager integration for the VCF instance.
- B. Deploy an additional VCF workload domain cluster.
- C. Trigger an inventory synch in VCF Operations fleet management.
- D. Deploy a new VCF workload domain.

Answer: A

NEW QUESTION # 46

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