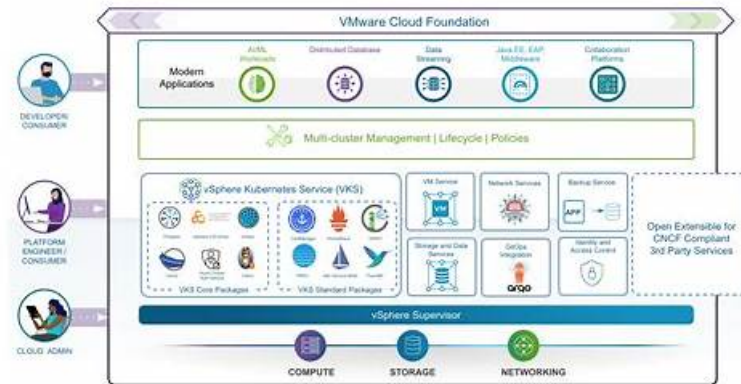


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VMware Advanced VMware Cloud Foundation 9.0 Storage Sample Questions (Q121-Q126):

NEW QUESTION # 121

An Infrastructure Manager is preparing a VCF 9.0 Workload Domain for a major lifecycle upgrade via SDDC Manager. Before allowing the update to proceed, the manager runs the vSAN Health Check.

A critical failure is flagged regarding the I/O Controller firmware.

The manager reviews the vpxd.log to investigate the interaction between the health check and the hardware state:

...

```
2026-11-20T10:05:12Z INFO vpxd - [vSAN Health] Running check: "Controller Firmware is VMware Certified"
```

```
2026-11-20T10:05:15Z WARN vpxd - Host esx-05.corp.local: Controller "LSI MegaRAID 3508" running Firmware "24.21.0-0019".
```

```
2026-11-20T10:05:15Z WARN vpxd - HCL Database (Version: 104) requires Firmware "24.21.0-0148" for vSAN 8.0 ESA.
```

```
2026-11-20T10:05:16Z ERROR vpxd - [vSAN Health] Check "Controller Firmware" FAILED.
```

...

What is the correct sequence of logic and architectural principles the manager must understand to resolve this Deep Fusion scenario

involving Health Checks and HCL updates? (Select all that apply.)

- A. The health check can be bypassed by acknowledging the alarm in vCenter, allowing the SDDC Manager update to force-flash the firmware during the upgrade process.
- B. The health check failure is a hard blocker for VCF upgrades; SDDC Manager will refuse to upgrade the vSphere layer if the vSAN underlying hardware is non-compliant with the target version.
- C. Updating the vSAN HCL JSON database to the latest version might resolve the alert if VMware has recently certified the older firmware (24.21.0-0019) for the target vSAN version.
- D. vSAN ESA eliminates the need for I/O controller compliance checks because NVMe devices attach directly to the PCIe bus without a controller.
- E. If the HCL database is already current, the manager must use vSphere Lifecycle Manager (vLCM) to actively patch the physical controller firmware to the required version ("0148") before proceeding.

Answer: B,C,E

NEW QUESTION # 122

A CTO is investigating a catastrophic outage. A TKG Worker Node containing several critical database First Class Disks (FCDs) suffered data corruption.

The node was running on a host experiencing high load, and standard VMDK backup routines (via VADP) were disabled to save CPU cycles. The storage team attempted to restore the FCDs using low-level API commands.

The engineer uses vim-cmd to inspect the FCD state:

...

```
[root@esx-08:~] vim-cmd vmsvc/get.tasklist
```

```
Task: ReconcileFCD_Task
```

```
Status: Failed
```

```
Error: "VStorageObjectNotFound"
```

```
[root@esx-08:~] vim-cmd vmsvc/device.diskaddexisting 20
```

```
/vmfs/volumes/vsan/fcd/88b1...
```

```
Error: "The disk object requires a CryptoKeyID which was not found in the current KMS provider."
```

...

How do the concepts of FCD independence and vSAN Encryption interact to create this restoration failure? (Select all that apply.)

- A. Converting the FCD back to a traditional VMDK using standard storage vMotion will strip the encryption and restore access.
- B. First Class Disks (FCDs) retain their SPBM-assigned capabilities (including Encryption Key IDs) independent of the worker node VM.
- C. The ESXi host lost connection to the Key Management Server (KMS) or the specific Key Encryption Key (KEK) associated with this FCD was rotated and lost.
- D. The FCD cannot be attached to a rescue VM or the original worker node because the hypervisor cannot decrypt the vSAN object without the matching CryptoKeyID.
- E. CNS volumes inherently use "Self-Encrypting Drives" (SEDs) where the FCD keys are stored on the physical NVMe firmware, bypassing the KMS.

Answer: B,C,D

NEW QUESTION # 123

A VI Admin completes an automated vSAN ReadyNode firmware upgrade using vLCM. After the ESXi hosts reboot, multiple Virtual Machines become unresponsive, and vSAN Skyline Health turns Red.

...

```
[UI - Skyline Health > Hardware Compatibility]
```

```
Issue: "vSAN I/O Controller Driver and Firmware are not matched"
```

```
Host: esx-08
```

```
Controller: Avago LSI 3108
```

```
Running Firmware: 4.680.00 (Upgraded)
```

```
Running Driver: 7.712.00 (Legacy)
```

...

What operational failure caused this post-upgrade storage outage, and what is the standard remediation? (Select all that apply.)

- A. The remediation is to update the vLCM Image specification to include the correct certified driver (7.716.x) and push the software update to the ESXi kernel to align with the new firmware.
- B. The VI Admin successfully upgraded the physical firmware chip on the controller to 4.680.00, but failed to include the corresponding updated ESXi software driver (7.716.x) in the vLCM Image baseline, creating an HCL mismatch.
- C. Mismatched storage driver/firmware combinations in vSAN commonly cause SCSI aborts, resulting in All Paths Down (APD) conditions that hang the Distributed Object Manager and freeze the VMs.
- D. The only supported resolution is to physically replace the HBA controller, as flashed firmware cannot communicate with older drivers.
- E. The storage array immediately enters a Permanent Device Loss (PDL) state, permanently corrupting the vSAN file system.

Answer: A,B,C

NEW QUESTION # 124

Which component manages storage lifecycle in VMware Cloud Foundation?

- A. ESXi
- B. NSX Manager
- C. vCenter Server
- D. SDDC Manager

Answer: D

NEW QUESTION # 125

An Infrastructure Manager is auditing the Storage Policy Based Management (SPBM) behavior for virtual machines running on an HCI Mesh Compute-Only Client cluster.

...

```
[root@esx-comp-01:~] esxcli vsan debug object list -u 5543...
Object UUID: 5543... (VM: Database-01)
Policy: FTT=1 (RAID-1), IOPS Limit: 2000
Component 1: ACTIVE (Host: esx-storage-05) -> Remote Server Cluster
Component 2: ACTIVE (Host: esx-storage-06) -> Remote Server Cluster
Witness: ACTIVE (Host: esx-storage-07) -> Remote Server Cluster
...
```

How do SPBM rules mechanically enforce storage protection and QoS when the VM compute (esx-comp-01) and storage backend (esx-storage-05/06) exist in completely different physical clusters?
(Select all that apply.)

- A. The "IOPS Limit" (QoS) rule is strictly enforced by the DOM Client module running on the *Client compute host* (esx-comp-01), throttling the DB I/O before it even hits the network.
- B. If the network between the Client and Server cluster is severed, the VM on esx-comp-01 will continue running in read-only mode using local NVMe cache.
- C. The "Failures to Tolerate" (RAID-1) layout logic is strictly managed by the DOM Owner module on the *Remote Server cluster*, ensuring the components never reside in the same fault domain.
- D. The SPBM engine on the Client host must duplicate the data (2x multiplier) across the network to satisfy the RAID-1 requirement, doubling ISL bandwidth.

Answer: A,C

NEW QUESTION # 126

.....

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