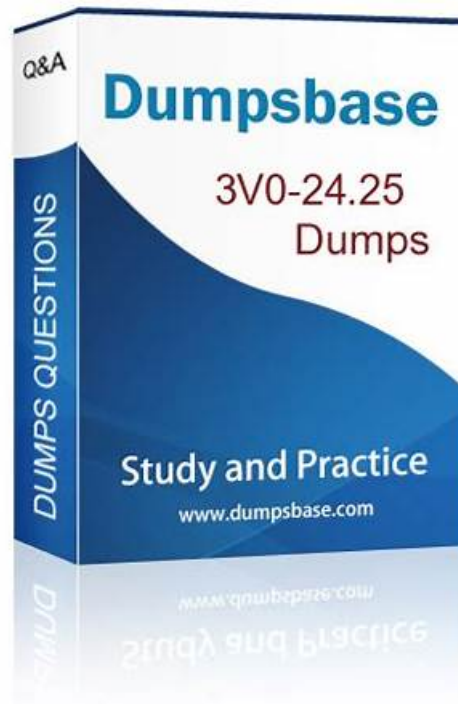


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VMware Advanced VMware Cloud Foundation 9.0 Storage Sample Questions (Q34-Q39):

NEW QUESTION # 34

An Infrastructure Manager is analyzing the performance of a newly deployed vSAN ESA cluster using the vSAN Performance Service. The team has deployed highly transactional databases.

...

[vSAN Performance View]
Component I/O Breakdown
DOM Client IOPS: 50,000
DOM Owner IOPS: 50,000
LSOM IOPS: 12,000

NVMe Device IOPS: 12,000

...

The manager notices a massive discrepancy: The DOM layers are processing 50,000 IOPS, but the LSOM and physical NVMe devices are only processing 12,000 IOPS.

Which of the following architectural capabilities of the vSAN ESA log-structured filesystem explain this specific discrepancy? (Select all that apply.)

- A. The DOM Client uses the host CPU to compress 4KB blocks into 1KB blocks, meaning the LSOM receives fewer physical bytes to write, though the IOPS count typically reflects distinct operations rather than byte count.
- B. The ESA architecture eliminates read-modify-write penalties for RAID-5/6, allowing the LSOM to write data natively without the traditional backend I/O amplification seen in OSA.
- C. The LSOM utilizes a high-performance log-structured mechanism that coalesces (groups) thousands of small random DOM I/O requests into a single large, sequential I/O write to the NVMe device.
- D. The discrepancy indicates a critical caching failure where 38,000 IOPS are being dropped by the DOM network layer before reaching the destination host.

Answer: A,B,C

NEW QUESTION # 35

A Storage Administrator is replacing a vSAN Witness Appliance for a Stretched Cluster that utilizes vSAN Data-at-Rest Encryption. The original Witness Appliance suffered an unrecoverable boot failure.

The administrator deploys the new appliance via OVF and uses an automation script to configure the networking and encryption pre-requisites before running the vCenter "Change Witness" workflow.

...

```
# Cloud-Init / Automation Spec for New Witness
network:
vmk0: 10.10.10.150/24 (Management)
vmk1: 172.16.20.150/24 (Witness - MTU 1500)
static_routes: [ "192.168.0.0/16 via 172.16.20.1" ]
security:
kms_trust_establishment: "True"
host_key_retrieval: "Disabled (Metadata Only)"
...
```

How does the interaction between the encryption layer and the new Witness Appliance behave during this replacement process? (Select all that apply.)

- A. Disabling "host_key_retrieval" on the Witness is a valid optimization because the Witness only uses standard VMFS for its storage, not the encrypted vSAN datastore.
- B. The new Witness Appliance must establish trust with the Key Management Server (KMS), because even though it does not hold payload data, it stores encrypted metadata components.
- C. The new Witness Appliance will require a "Deep Rekey" operation to generate a unique Disk Encryption Key (DEK) for its local cache device.
- D. When the DOM syncs metadata to the new Witness, the metadata is transmitted over the wire unencrypted unless Data-in-Transit encryption is also enabled.

Answer: B,C,D

NEW QUESTION # 36

An L3 Support Engineer is called into a war room. A vSAN ESA Stretched Cluster (Site A and Site B, with Witness at Site C) has suffered a complex cascade failure.

Current State:

1. Site B suffered a total power loss.
2. Simultaneously, the Witness Appliance network link at Site C was severed.
3. Site A remains fully operational with no hardware faults.

The VMs originally running on Site B are unreachable. The VMs originally running on Site A are frozen.

The Storage Policy configuration is shown below:

...

```
# Stretched Cluster Policy
```

```
[Site-Disaster-Tolerance]
Rule = "Dual site mirroring (stretched cluster)"
[Failures-to-Tolerate]
Rule = "1 failure - RAID-5 (Erasure Coding) [Local]"
[Advanced-Rule]
ForceProvisioning = 0
...
```

Based on the integration of Object Health states and Stretched Cluster topology, why are the VMs on Site A frozen, and what is the exact status of their storage objects? (Select all that apply.)

- A. The objects for Site A VMs are "Inaccessible" because Site A holds only the local replica (1 vote), while the Site B replica (1 vote) and the Witness (1 vote) are both unavailable, resulting in a loss of cluster quorum (<50%).
- B. The objects are in "Reduced Availability" (ABSENT state) because the Dual Site Mirroring policy allows Site A to maintain independent quorum using its local RAID-5 parity blocks.
- C. The local RAID-5 policy rule on Site A cannot override the primary Stretched Cluster quorum; both site-level components and local components must be evaluated.
- D. The ForceProvisioning = 0 rule prevents vSphere HA from restarting the VMs on Site A until Site B is recovered.
- E. Restoring network connectivity to the Witness at Site C is the fastest operational path to restore object accessibility for the VMs on Site A.

Answer: A,C,E

NEW QUESTION # 37

An L3 Support Engineer is preparing to apply security patches to a VCF 2-Node vSAN Cluster using vSphere Lifecycle Manager (vLCM).

The cluster is 60% full of capacity. The engineer must place Node 1 (esx-edge-01) into Maintenance Mode.

```
...
[RVC Output: vsan.cluster_info ~cluster]
Node 1: 30 TB Used
Node 2: 30 TB Used
Witness: 0 KB Used
...
```

Which TWO operational realities must the engineer accept when selecting the vSAN Data Migration mode for this 2-node topology? (Choose 2.)

- A. The "Full Data Migration" option is strictly unavailable and will fail immediately, because Node 2 physically lacks the free capacity (Operations Reserve) to absorb Node 1's 30 TB of data.
- B. The engineer must select "Ensure Accessibility". This will leave Node 1's data offline. Virtual Machines will continue running purely from their replicas on Node 2, reducing the cluster to FTT=0 (No Redundancy) for the duration of the patch.
- C. The "No Data Migration" option must be selected, forcing the VMs to gracefully shut down before the host can reboot.
- D. The operation requires adding a temporary 3rd ESXi host to the edge site to accept the evacuated vSAN components.
- E. Standard DRS load balancing algorithms will automatically evacuate the CPU and RAM of the VMs from Node 1 to Node 2, keeping the applications online without requiring a shutdown.

Answer: B,E

NEW QUESTION # 38

A SOC Analyst is investigating severe write latency on a database VM running in a 6-node vSAN OSA cluster. The analyst pulls the vmkernel.log from the host where the VM resides (esx-01).

```
...
2026-11-28T10:15:20Z WARNING vsan-dom - DOM Client: I/O timeout (3000ms) for object 5543... on component 88b1...
(Host: esx-04)
2026-11-28T10:15:21Z WARNING vsan-lsom [esx-04] - LSOM: Congestion type "ssd-congestion" reached threshold 185.
Applying back-pressure.
2026-11-28T10:15:22Z ERROR vsan-dom - DOM Owner: Write to component 88b1... delayed by LSOM queue full.
...
```

Based on the interaction between DOM and LSOM shown in the logs, which TWO statements accurately diagnose the root cause and system behavior? (Choose 2.)

- A. The LSOM on esx-01 is experiencing a cache drive failure, causing it to redirect all writes to esx-04 via the DOM.
- B. The log indicates a failure of the DOM Client network stack, which caused the I/O to bypass the cache tier entirely.
- C. **ssd-congestion is an LSOM-layer physical metric indicating that the cache tier on esx-04 cannot destage data to the capacity tier fast enough to keep up with the incoming writes.**
- D. **The DOM Client on esx-01 is actively throttling the VM's I/O to zero because the ssd-congestion on the remote host esx-04 has exhausted the physical write buffer.**

Answer: C,D

NEW QUESTION # 39

.....

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