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VMware Advanced VMware Cloud Foundation 9.0 Storage Sample Questions (Q85-Q90):

NEW QUESTION # 85

A Solutions Architect is designing a new VCF Workload Domain that combines advanced vSAN Data Protection with Storage Policy Based Management (SPBM) rules.

The requirements stipulate:

1. VMs must be locally protected with FTT=2 (RAID-6).
2. VMs must be replicated to a remote cluster with an RPO of 30 minutes.
3. The replicated data on the remote site must be immutable for 5 days.

The architect creates the following SPBM policy to automate the provisioning:

...

SPBM Policy: "Secure-DR-Policy"

[Capabilities]

Host.FailuresToTolerate: 2 (RAID-6)
DataProtection.RemoteTarget: "DR-Cluster-02"
DataProtection.RPO: 30 minutes
DataProtection.Immutability: Enabled
DataProtection.Retention: 5 days
...

How does the vCenter and vSAN integration handle the instantiation and lifecycle of this complex policy?
(Select all that apply.)

- A. To achieve immutability on the remote site, "DR-Cluster-02" must be configured with an AWS S3 object-lock gateway, as local vSAN datastores cannot enforce time-based retention locks.
- B. When a VM is assigned this policy, vCenter automatically creates the corresponding local and remote protection groups in the vSAN Data Protection interface.
- C. The Host.FailuresToTolerate: 2 (RAID-6) rule is applied to both the running VM on the source site AND the replicated snapshot object on the remote site, provided the remote site has 6+ hosts.
- D. If the user attempts to delete a snapshot manually before the 5-day retention period, the vSAN DOM will reject the API call due to the immutability flag.

Answer: B,C,D

NEW QUESTION # 86

A Storage Administrator is troubleshooting a vSAN Stretched Cluster configuration. The administrator successfully executed a Deep Rekey operation on the Preferred and Secondary data sites, but suspects the Witness Appliance was excluded from the cryptographic rotation.

The administrator queries the encryption status of the Witness Appliance via the Ruby vSphere Console (RVC):

...
[RVC Output: vsan.encryption_info ~cluster]
Host: esx-site-a-01 | DEK Gen: 2 | KEK ID: kms-ext-key-002
Host: esx-site-b-01 | DEK Gen: 2 | KEK ID: kms-ext-key-002
Host: witness-01 | DEK Gen: 1 | KEK ID: kms-ext-key-001
...

Based on the RVC output and Stretched Cluster mechanics, what are the implications of this state, and how is the interaction handled? (Select all that apply.)

- A. The output confirms the Witness Appliance is in an inconsistent state (DEK Gen: 1 vs data hosts Gen: 2); the Deep Rekey workflow likely failed to reach the Witness via the management network.
- B. This inconsistent state prevents the data hosts from forming a quorum with the Witness because the CMMDS metadata cannot be decrypted across different KEK versions.
- C. The Witness Appliance failed to Deep Rekey because it runs a different vSAN storage protocol that does not support Disk Encryption Keys (DEKs).
- D. The administrator must initiate a manual Deep Rekey specifically targeting the witness-01 host to bring its DEK generation and KEK ID in line with the data sites.

Answer: A,D

NEW QUESTION # 87

An L3 Support Engineer is troubleshooting a host component limit alert on a vSAN cluster. A specific 1.8 TB VMDK has generated 8 physical components.

The engineer queries the object state and policy using esxcli.

...
[root@esx-04:~] esxcli vsan debug object list -u 5543...
Policy: FTT=0 (No Redundancy), StripeWidth=1
Size: 1800 GB
Tree:
Component 1: CONCATENATION (esx-04)
...
Component 8: CONCATENATION (esx-04)

...

Why did the vSAN Distributed Object Manager (DOM) split this 1.8 TB object into 8 separate concatenated components on the same host, despite the policy explicitly disabling striping and mirroring?

- A. The NVMe drive sector size is 255 GB, matching the hardware limitation.
- B. The ESXi CPU automatically spawned extra components to handle Deduplication hash collisions.
- C. vSAN imposes a hard architectural limit of 255 GB per physical component; any object larger than 255 GB is automatically concatenated into 255 GB chunks, resulting in ~8 components for a 1.8 TB object ($1800 / 255 \approx 7.05$).
- D. The host ran out of contiguous block space, forcing vSAN to fragment the object.

Answer: C

NEW QUESTION # 88

A VCF Architect is designing the automated lifecycle management (LCM) workflow for a massive 48- node vSAN ESA cluster using Dell ReadyNodes.

The design integrates vSphere Lifecycle Manager (vLCM) with the OpenManage Integration for VMware vCenter (OMIVV) Hardware Support Manager (HSM).

...

vLCM Cluster Image JSON Spec

```
"image": {  
  "esx_version": "8.0 U2",  
  "vendor_addon": "Dell_Customization",  
  "hsm_package": "OMIVV_Firmware_Baseline_v4"  
}
```

...

How does the vCenter HCL Database interact with this automated vLCM firmware remediation loop?

(Select all that apply.)

- A. The integration requires disabling the vSAN Health Service so that the OMIVV hardware manager can assume absolute control over the RAID controller configurations.
- B. If the HCL database determines the HSM firmware baseline is incompatible, the SDDC Manager compliance pre-check will block the remediation task to prevent corrupting the storage pool.
- C. vLCM ignores the vSAN HCL database entirely when a Hardware Support Manager is present, relying solely on the OEM vendor's internal certification matrix.
- D. Updating the HCL database inside vCenter automatically flashes the new firmware onto the physical Dell servers during the next standard maintenance window.
- E. Before applying the image, vLCM queries the active vSAN HCL Database to validate that the specific NVMe firmware contained in the "OMIVV Baseline" is officially certified for vSAN ESA 8.0 U2.

Answer: B,E

NEW QUESTION # 89

A Storage Administrator is performing post-migration health checks after upgrading a Workload Domain from vSAN OSA to vSAN ESA. The legacy OSA cluster heavily relied on Deduplication to meet capacity requirements.

The administrator pulls the vmkernel.log and observes the compression statistics for the ESA storage pool.

...

```
2026-11-20T10:15:22Z INFO vsan-lsom - Object 5543... enabling compression.  
2026-11-20T10:15:35Z INFO vsan-dom - Write I/O (4KB) compressed to 1KB. Network transmit: 1KB.  
2026-11-20T10:15:45Z INFO vsan-crypto - Encrypting 1KB payload.  
2026-11-20T10:16:00Z INFO vsan-lsom - Storage Pool capacity update: Total logical written 100TB, Physical consumed 40TB.
```

...

The administrator is concerned that the loss of "Deduplication" in ESA will cause the cluster to run out of physical space.

How does the log data and the deep architectural fusion of ESA features resolve the administrator's concern? (Select all that apply.)

- A. The log proves that 100TB of logical data is only consuming 40TB of physical space (a 2.5x efficiency ratio) using ONLY compression, effectively replacing the legacy deduplication savings.
- B. By eliminating the deduplication hash table lookups, ESA eliminates the primary cause of high backend latency, allowing the storage pool to sustain higher IOPS even as capacity fills up.

- C. Because Deduplication is missing, the backend resync time during a host failure will increase significantly compared to OSA, as ESA must rebuild duplicate blocks.
- D. The log confirms the "Top-of-Stack" processing pipeline: Data is Compressed FIRST (4KB to 1KB), then Transmitted, then Encrypted. This ensures the network and encryption engines only process the minimized payload.

Answer: A,B,D

NEW QUESTION # 90

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