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VMware Advanced VMware Cloud Foundation 9.0 Storage Sample Questions (Q27-Q32):

NEW QUESTION # 27

A Storage Administrator uses the Ruby vSphere Console (RVC) to diagnose a massive host isolation event in a vSAN ESA cluster.

...

```
[RVC Output: vsan.cluster_info ~cluster]
```

```
Host: esx-04
```

```
Network Status: Partitioned (Isolated)
```

```
CMMDS Master: Self (Partition Group size: 1)
```

...

esx-04 has completely lost vSAN network connectivity (an effective internal APD for its remote replicas).

How do the vSphere HA "Host Isolation Response" and the vSAN "Inaccessible Object" mechanics fuse to handle the Virtual Machines currently running on the isolated host esx-04?

(Select all that apply.)

- A. esx-04 continues to run the VMs normally using only local storage cache, entering a "degraded active" mode.
- B. The surviving cluster (which has the CMMDS Master and Quorum) detects that esx-04 is dead, and the vSphere HA Master on the surviving side initiates the boot-up sequence to restart the VMs.
- C. If vSphere HA "Host Isolation Response" is set to "Power Off and Restart VMs", esx-04 will forcibly terminate its local frozen VMs.
- D. esx-04 is isolated. It cannot see the rest of the cluster (no quorum). The vSAN DOM on esx-04 immediately marks all VM storage objects as "Inaccessible", freezing the VMs to prevent split-brain.
- E. RVC automatically generates a PDL condition on the remaining hosts to wipe the duplicate data.

Answer: B,C,D

NEW QUESTION # 28

A Compliance Auditor is validating that a proposed vSAN ReadyNode hardware cluster meets the exact requirements needed to support a highly aggressive Storage Policy requested by the development team.

The policy requires extreme read performance for a distributed file system.

...

```
# SPBM Policy: "Extreme-Read-Parallelism"
```

```
FailuresToTolerate: 1 (RAID-1)
```

```
StripeWidth: 10
```

```
ObjectSpaceReservation: 100%
```

...

The auditor examines the vSAN Sizer output. The Sizer rejects the existing 4-Node, 6-drive-per-host cluster configuration.

How does the interaction between the StripeWidth: 10 rule and the vSAN object placement algorithm dictate the required hardware ReadyNode scaling in the Sizer? (Select all that apply.)

- A. The "Stripe Width = 10" rule forces the DOM to distribute a single replica of the VMDK across 10 distinct physical NVMe drives. If a single host only has 6 drives, the Sizer must expand the object across multiple hosts to find 10 drives.
- B. If the Sizer keeps the cluster at 4 nodes, it must recommend ReadyNodes equipped with a significantly higher density of NVMe drives per host (e.g., 12-24 drives per host) to satisfy the high local stripe width capacity.
- C. The "ObjectSpaceReservation: 100%" component requires the Sizer to recommend drives with 100% dedicated cache capacity, which violates ESA standards.
- D. Stripe Width is a logical construct that ignores physical drive count; the Sizer rejection is purely based on the FTT=1 memory overhead limit.
- E. The Sizer may recommend adding more hosts to the cluster (Scale-Out) to increase the aggregate number of physical NVMe spindles available to absorb the 10-wide stripe distribution.

Answer: A,B,E

NEW QUESTION # 29

A Solutions Architect is calculating the network bandwidth saturation for a specific VMDK under heavy write load in a vSAN ESA

cluster. The available Top-of-Rack switch throughput is limited to 25 GbE.
The VM generates 500 MB/s of raw write data.
The architect evaluates two different Storage Policies applied to this specific VM:
...

[SPBM Configuration Options]

Policy A: Failures To Tolerate: 1 (RAID-1 Mirroring)

Policy B: Failures To Tolerate: 1 (RAID-5 Erasure Coding)
...

How do these different SPBM policies directly alter the actual "on-the-wire" network traffic profile for vSAN, and what is the impact on the 25 GbE fabric? (Select all that apply.)

- A. Both policies consume zero network bandwidth for reads when the "Site Locality" feature is enabled.
- B. vSAN ESA compresses the data BEFORE it leaves the host (DOM Client level); therefore, if the VM generates highly compressible data (e.g., 2:1 ratio), Policy B will only push ~332 MB/s across the network, preserving the 25 GbE switch buffers.
- C. Policy B (RAID-5) significantly reduces the network bandwidth multiplier compared to RAID-1, because the erasure coding algorithm spreads parity overhead (1.33x) rather than duplicating the full dataset.
- D. Switching from Policy A to Policy B doubles the network traffic overhead because RAID-5 requires a 4th parity node.
- E. Policy A (RAID-1) generates 1000 MB/s of total backend network traffic (a 2.0x multiplier) because the DOM Client must simultaneously send the 500 MB/s data payload to both Mirror 1 and Mirror 2 across the network.

Answer: B,C,E

NEW QUESTION # 30

An Operations Engineer is managing a Tanzu environment running on a vSAN Stretched Cluster. A critical Kubernetes pod utilizing a 1 TB CNS Persistent Volume is running on Site-A.
...

[Storage Policy Rule View - CNS PVC]

Policy: K8s-Stretched-Gold

Site Disaster Tolerance:

Dual site mirroring

Failures to Tolerate: 1 (RAID-1)

CNS Volume ID: pvc-77bb...
...

A catastrophic power failure takes Site-A completely offline. The Witness and Site-B remain online.

How does the deep integration between CNS, vSAN Stretched Cluster, and vSphere HA orchestrate the recovery of the Kubernetes persistent storage and the pod itself? (Select all that apply.)

- A. The Kubernetes Master Node must be manually instructed to perform a kubectl drain on the failed Site-A nodes before storage access is restored.
- B. The vSAN Distributed Object Manager detects the failure and instantly shifts the "Active" pointer for the FCD components to Site-B, maintaining storage accessibility.
- C. vSphere HA automatically restarts the TKG Worker Node VM (which hosts the pod) on the surviving Site-B hosts.
- D. When the TKG Worker Node VM boots on Site-B, the vSphere CSI driver re-attaches the existing FCD to the worker node, and Kubernetes naturally restarts the pod using the intact data.
- E. CNS detects the site failure and automatically edits the Kubernetes manifest to dynamically re-mount the PVC to a different running worker node in Site B.

Answer: B,C,D

NEW QUESTION # 31

An administrator is responsible for a VMware Cloud Foundation (VCF) Private Cloud and has been tasked with identifying and explaining the different Fibre Channel (FC) Storage Area Network (SAN) components within a VCF Workload Domain cluster. Drag and drop the correct Term onto its matching Definition.

Term	Definition
LUN Masking	A collection of shared resources with a shared management interface that enables resource allocation policies.
Datastore Cluster	A security process performed on the storage array by which specific storage components are hidden to prevent unauthorised access to data.
SAN Fabric	A dedicated high-performance network infrastructure for storage devices.
Datastore	Added to an ESX host server to allow the host access to the dedicated storage area network.
Host Bus Adapter (HBA)	A manageable storage entity, used as a repository for Virtual Machine files including log files, scripts, configuration files and virtual disks.
Zoning	A security process completed on the Storage Area Network to ensure only certain devices can communicate with each other.

Answer:

Explanation:

Term	Definition
LUN Masking	A collection of shared resources with a shared management interface that enables resource allocation policies.
Datastore Cluster	A security process performed on the storage array by which specific storage components are hidden to prevent unauthorised access to data.
SAN Fabric	A dedicated high-performance network infrastructure for storage devices.
Datastore	Added to an ESX host server to allow the host access to the dedicated storage area network.
Host Bus Adapter (HBA)	A manageable storage entity, used as a repository for Virtual Machine files including log files, scripts, configuration files and virtual disks.
Zoning	A security process completed on the Storage Area Network to ensure only certain devices can communicate with each other.

Explanation:

LUN Masking = A security process performed on the storage array by which specific storage components are hidden to prevent unauthorized access to data; Datastore Cluster = A collection of shared resources with a shared management interface that enables resource allocation policies; SAN Fabric = A dedicated high-performance network infrastructure for storage devices; Datastore = A manageable storage entity used as a repository for Virtual Machine files including log files, scripts, configuration files and virtual disks; Host Bus Adapter (HBA) = Added to an ESX host server to allow the host access to the dedicated storage area network; Zoning = A security process completed on the Storage Area Network to ensure only certain devices can communicate with each other.

These definitions describe the core components of a Fibre Channel SAN design in a VCF Workload Domain. LUN masking is performed on the storage array and controls which hosts can see specific LUNs, preventing unauthorized access to storage. A datastore cluster is a collection of datastores managed as a shared resource pool, allowing placement and balancing policies through Storage DRS. A SAN fabric is the dedicated high-performance network that interconnects ESX hosts, Fibre Channel switches, and storage arrays. A datastore is the vSphere logical storage container where VM configuration files, virtual disks, logs, and related files reside. A Host Bus Adapter is the physical or virtual adapter in the ESX host that connects the host to the Fibre Channel storage area network.

Zoning is performed on the Fibre Channel fabric and controls which initiators and targets can communicate. Together, zoning and LUN masking provide layered access control, while datastores and datastore clusters provide the vSphere consumption model. Reference topics: Fibre Channel SAN Concepts, SAN Fabric, Zoning, LUN Masking, VMFS Datastores, Datastore Clusters.

NEW QUESTION # 32

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