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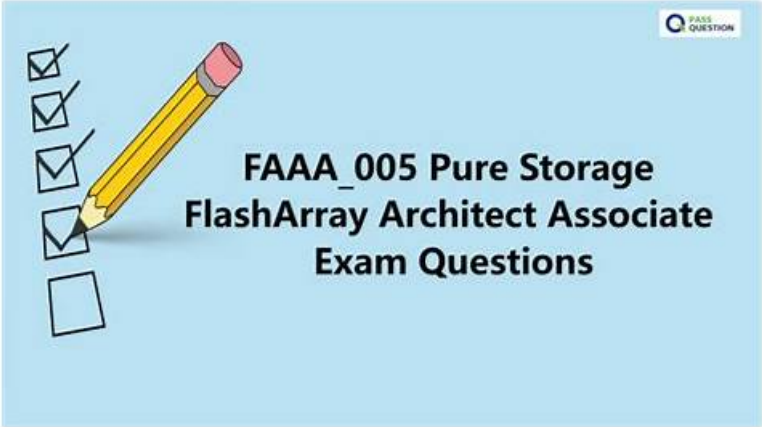

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Pure Storage FlashArray Architect Associate Sample Questions (Q15-Q20):

NEW QUESTION # 15
A controller receives a write request.
If it generates a hash that is already recorded in the hash table, what happens next?

- A. The next incoming block is then hashed to see if it can be deduplicated.
- B. Purity//FA will expand the block to see if it can deduplicate a larger dataset.
- C. Deep level compression is then applied to the newly hashed block.
- D. The new block is compared to the existing block to confirm they are duplicates.

Answer: D

Explanation:
When a controller generates a hash for an incoming write request and finds that the hash already exists in the hash table, the next step is to compare the new block to the existing block to confirm they are duplicates.
Why This Matters:
Hash Collision Handling:
Hash functions can sometimes produce the same hash value for different data blocks (a "hash collision"). To ensure data integrity, the system must verify that the new block is identical to the existing block before deduplication occurs.
Data Integrity:
Comparing the blocks ensures that only true duplicates are deduplicated, preventing data corruption or loss due to hash collisions.
Why Not the Other Options?

A). The next incoming block is then hashed to see if it can be deduplicated:
Hashing the next block is unnecessary at this stage. The focus is on verifying whether the current block is a duplicate.
B). Deep level compression is then applied to the newly hashed block:
Compression is a separate process from deduplication and does not occur immediately after hashing.
D). Purity//FA will expand the block to see if it can deduplicate a larger dataset:
Expanding the block is not part of the deduplication process. Deduplication operates on individual blocks, not larger datasets.
Key Points:
Hash Table Lookup: Identifies potential duplicates based on hash values.
Block Comparison: Confirms that the new block matches the existing block to ensure data integrity.
Deduplication: Eliminates redundant data to optimize storage efficiency.
Reference: Pure Storage FlashArray Documentation: "Understanding Deduplication in Purity//FA" Pure Storage Whitepaper: "Data Reduction Techniques in FlashArray" Pure Storage Knowledge Base: "How Deduplication Works in FlashArray"

NEW QUESTION # 16
A customer is looking for a new storage system with the following requirements:
* 20 TB of file shares
* Support 800 TB of Wols
* Low cost per GB
* CloudSnap utilization in the future
Which Pure Storage platform should be recommended?

- A. FlashBlade//S
- B. FlashArray//C
- C. FlashArray//X
- D. Cloud Block Store

Answer: B

Explanation:
The customer is looking for a storage system that supports 20 TB of file shares, 800 TB of workloads, has a low cost per GB, and can utilize CloudSnap in the future. The best recommendation is FlashArray//C.
Why This Matters:
FlashArray//C:
FlashArray//C is designed for capacity-optimized workloads, making it ideal for use cases requiring large amounts of storage at a lower cost per GB compared to higher-performance arrays like FlashArray//X.
It supports QLC flash technology, which provides high density and cost efficiency for less performance-intensive workloads.
CloudSnap is fully supported on FlashArray//C, enabling snapshots to be offloaded to public cloud storage for disaster recovery or archival purposes.
Why Not the Other Options?
A). FlashArray//X:
FlashArray//X is optimized for high-performance workloads, such as databases and mission-critical applications. While it supports CloudSnap, it is more expensive and not the most cost-effective solution for large-scale capacity needs.
C). Cloud Block Store:
Cloud Block Store is a cloud-native block storage solution that runs in public clouds (e.g., AWS, Azure). It does not meet the requirement for on-premises storage with file shares and CloudSnap utilization.
D). FlashBlade//S:
FlashBlade//S is designed for file and object storage but is typically used for high-performance, unstructured data workloads. It is more expensive than FlashArray//C and not necessary for this use case.
Key Points:
FlashArray//C: Provides high-density storage at a low cost per GB, ideal for large-scale workloads.
CloudSnap Support: Enables offloading snapshots to the cloud for disaster recovery or archival purposes.
Cost Efficiency: Balances performance and cost, making it suitable for file shares and large datasets.
Reference: Pure Storage FlashArray//C Documentation: "Use Cases for FlashArray//C" Pure Storage Whitepaper: "Optimizing Storage Costs with FlashArray//C" Pure Storage Knowledge Base: "Choosing the Right FlashArray Model for Your Workload"

NEW QUESTION # 17
A customer has deployed an ActiveCluster solution with Uniform Configuration. The customer wants to make sure that all host connections are configured to the array according to best practices.

What Fibre Channel connections should the architect recommend for the customer to use?

- A. A single connection from each controller through a single fabric
- B. Dual connections from each controller through two fabrics
- C. A single connection from each controller through two fabrics
- D. Crossed connections from each controller through a single fabric

Answer: B

Explanation:
For an ActiveCluster solution with Uniform Configuration, the architect should recommend dual connections from each controller through two fabrics to ensure high availability and redundancy in Fibre Channel connectivity.
Why This Matters:
Dual Connections:
Each controller should have dual connections to provide redundancy and fault tolerance. If one connection fails, the other ensures uninterrupted communication between the host and the array.
Two Fabrics:
Using two independent Fibre Channel fabrics (e.g., Fabric A and Fabric B) ensures that there is no single point of failure in the network infrastructure. This aligns with best practices for ActiveCluster deployments.
Why Not the Other Options?
B). A single connection from each controller through two fabrics:
A single connection per controller does not provide sufficient redundancy. If the connection fails, the host may lose access to the array.
C). Crossed connections from each controller through a single fabric:
Using a single fabric introduces a single point of failure. Additionally, "crossed connections" are not a standard or recommended configuration for ActiveCluster.
D). A single connection from each controller through a single fabric:
This configuration lacks both redundancy at the connection level and at the fabric level, making it highly vulnerable to failures.
Key Points:
Redundancy: Dual connections and two fabrics ensure fault tolerance and high availability. Best Practices: Aligns with Pure Storage's recommendations for ActiveCluster deployments. Uniform Configuration: Ensures consistent and reliable connectivity across all hosts in the cluster.
Reference: Pure Storage FlashArray Documentation: "ActiveCluster Best Practices for Fibre Channel Connectivity" Pure Storage Whitepaper: "Designing High-Availability Solutions with ActiveCluster" Pure Storage Knowledge Base: "Configuring Host Connections for ActiveCluster"

NEW QUESTION # 18
What is the minimally required FlashArray model that includes the DirectCompress Accelerator (DCA)?

- A. FlashArray//X70 R4
- B. FlashArray//X90 R4
- C. FlashArray//X70 R3
- D. FlashArray//XL130

Answer: A

Explanation:
The DirectCompress Accelerator (DCA) is a hardware component introduced in certain FlashArray models to enhance inline data compression performance. To determine the minimally required FlashArray model that includes DCA, let's analyze the options:
Analysis of Options:
A). FlashArray//X70 R4:
The FlashArray//X70 R4 was the first model to include the DirectCompress Accelerator (DCA). This makes it the minimally required model for DCA support.
B). FlashArray//X70 R3:
The FlashArray//X70 R3 does not include the DCA. It relies on software-based compression, which is less efficient than hardware-accelerated compression.
C). FlashArray//X90 R4:
The FlashArray//X90 R4 includes DCA but is a higher-tier model than the X70 R4. While it supports DCA, it is not the minimal requirement.
D). FlashArray//XL130:

The FlashArray//XL130 is a high-performance model that includes DCA, but it is overkill for this requirement and not the minimal model.
Recommendation:
The correct answer is
A). FlashArray//X70 R4, as it is the first model to include the DirectCompress Accelerator (DCA).
Reference: FlashArray Hardware Specifications:
FlashArray Models
Details the features and capabilities of each FlashArray model.
DirectCompress Accelerator Overview:
DirectCompress Accelerator
Explains the benefits and availability of DCA.

NEW QUESTION # 19
Which Pure Storage offering can be deployed in AWS?

- A. Cloud Block Store
- B. ObjectEngine
- C. CloudSnap

Answer: A

Explanation:
The Pure Storage offering that can be deployed in AWS is Cloud Block Store.
Why This Matters:
Cloud Block Store:
Cloud Block Store is a cloud-native block storage solution that runs in public clouds like AWS and Azure.
It provides enterprise-grade storage features, including deduplication, compression, and thin provisioning, while seamlessly integrating with on-premises FlashArray environments.
Why Not the Other Options?
A). ObjectEngine:
ObjectEngine is a backup and recovery solution designed for rapid restores and backups. It is not a storage solution that can be deployed in AWS.
C). CloudSnap:
CloudSnap is a feature that offloads snapshots to cloud storage (e.g., AWS S3 or Azure Blob). It is not a standalone storage solution but rather a feature of FlashArray.
Key Points:
Cloud Block Store: Provides block storage in AWS with enterprise-grade features.
Integration: Seamlessly integrates with on-premises FlashArray environments for hybrid cloud architectures.
Scalability: Enables scalable and cost-effective storage in the cloud.
Reference: Pure Storage Cloud Block Store Documentation: "Deploying Cloud Block Store in AWS" Pure Storage Whitepaper: "Hybrid Cloud Architectures with FlashArray and Cloud Block Store" Pure Storage Knowledge Base: "Cloud Block Store Use Cases and Deployment"

NEW QUESTION # 20
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