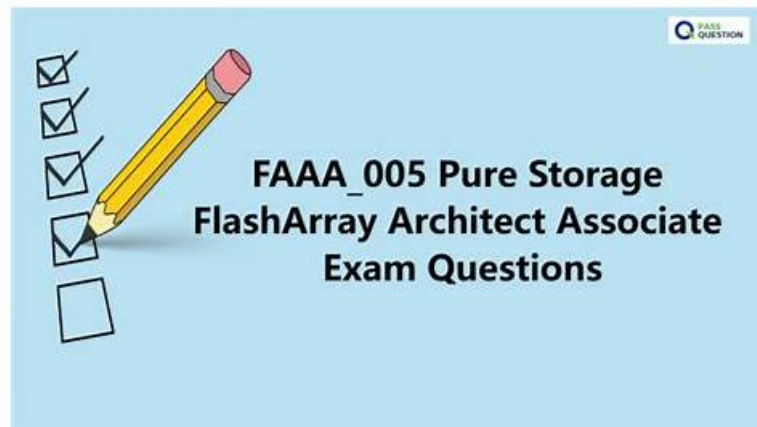


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## Pure Storage FlashArray Architect Associate Sample Questions (Q26-Q31):

### NEW QUESTION # 26

A customer has presented two workloads that need to be replicated. One is a highly transactional database workload and the other is a VM datastore with tier one applications.

The customer has the following requirements:

- \* The database workload is highly reliant on storage performance The VM datastore requires zero downtime.
- \* The customer has advised the two FlashArrays will be 20 miles apart and they are worried that this could impact their internal SLAs.

What replication strategies should be advised for these workloads?

- A. ActiveDR should be used for both workloads.
- **B. ActiveCluster should be used for the VM workloads and ActiveDR for the database workload.**
- C. ActiveDR should be used for the VM workloads and ActiveCluster for the database workload.
- D. ActiveCluster should be used for both workloads.

**Answer: B**

Explanation:

To address the customer's requirements, we need to evaluate the replication strategies offered by Pure Storage FlashArray: ActiveCluster and ActiveDR, and how they align with the specific needs of the two workloads.

Workload Analysis:

Transactional Database Workload:

This workload is highly reliant on storage performance. Any replication strategy must ensure minimal latency and high availability to avoid impacting transactional throughput and response times.

The database workload typically benefits from synchronous replication to maintain consistency and performance across sites.

VM Datastore (Tier 1 Applications):

This workload requires zero downtime, meaning it must remain accessible even in the event of a site failure. High availability and seamless failover are critical.

The VM datastore can tolerate some level of asynchronous replication as long as it does not compromise availability or recovery objectives.

Replication Strategies:

ActiveCluster:

ActiveCluster is a synchronous replication solution that provides active-active high availability across two FlashArrays. It ensures zero RPO (Recovery Point Objective) and zero RTO (Recovery Time Objective), making it ideal for workloads requiring continuous availability and zero downtime.

ActiveCluster is well-suited for the VM datastore workload because it guarantees seamless failover and high availability, meeting the zero-downtime requirement.

ActiveDR:

ActiveDR is an asynchronous replication solution designed for disaster recovery scenarios. It provides near-zero RPO (typically seconds to minutes) and allows for non-disruptive testing of failover scenarios.

ActiveDR is better suited for the transactional database workload because it minimizes the impact of latency over the 20-mile distance while still maintaining high performance and consistency.

Distance Consideration:

The 20-mile distance between the two FlashArrays introduces latency concerns. Synchronous replication (ActiveCluster) can handle this distance effectively for the VM datastore workload due to its tolerance for slightly higher latency. However, for the transactional database workload, the latency could degrade performance, making ActiveDR a better choice.

Final Recommendation:

Use ActiveCluster for the VM datastore workload to achieve zero downtime and high availability.

Use ActiveDR for the transactional database workload to balance performance and disaster recovery needs over the 20-mile distance.

Reference: Pure Storage ActiveCluster Documentation:

Explains the synchronous replication capabilities and use cases for ActiveCluster.

Pure Storage ActiveCluster

Pure Storage ActiveDR Documentation:

Details the asynchronous replication features and disaster recovery use cases for ActiveDR.

Pure Storage ActiveDR

Pure Storage Best Practices for Replication:

Provides guidance on selecting the appropriate replication strategy based on workload requirements and distance considerations.

Pure Storage Replication Best Practices

Pure Storage Architectural Guides:

Covers architectural considerations for deploying ActiveCluster and ActiveDR in multi-site environments.

Pure Storage Architectural Guides

This approach ensures that both workloads meet their respective SLAs while addressing the customer's concerns about distance and performance.

## NEW QUESTION # 27

A customer notices a low data reduction ratio upon initial data ingest.

Which Purity data reduction technique will help increase the data reduction ratio over time?

- A. Deep deduplication and deep compression
- B. RAID-HA protection and AES-256 encryption
- C. Snapshot cleanup and garbage collection
- D. Capacity consolidation and cloning

**Answer: A**

Explanation:

If a customer notices a low data reduction ratio upon initial data ingest, the Purity data reduction technique that will help increase the data reduction ratio over time is deep deduplication and deep compression.

Why This Matters:

Deep Deduplication and Deep Compression:

Purity//FA (the operating system for FlashArray) applies deduplication to eliminate duplicate data blocks and compression to reduce the size of unique data blocks.

These techniques are applied continuously as new data is written to the array. Over time, as more data is ingested and patterns emerge, the effectiveness of deduplication and compression increases, leading to a higher data reduction ratio.

For example, deduplication becomes more effective as the dataset grows and more duplicates are identified. Similarly, compression benefits from identifying repetitive patterns in larger datasets.

Why Not the Other Options?

B). Snapshot cleanup and garbage collection:

Snapshot cleanup and garbage collection are maintenance processes that reclaim space from deleted snapshots or unused data blocks. While these processes free up space, they do not directly contribute to increasing the data reduction ratio.

C). Capacity consolidation and cloning:

Capacity consolidation refers to combining workloads onto fewer arrays, and cloning creates space-efficient copies of volumes.

While cloning leverages data reduction techniques, it does not inherently improve the overall data reduction ratio for existing data.

D). RAID-HA protection and AES-256 encryption:

RAID-HA (high availability) ensures data redundancy, and AES-256 encryption secures data. Neither of these features impacts the data reduction ratio.

Key Points:

Deep Deduplication and Compression: Continuously optimize storage efficiency as more data is ingested.

Data Reduction Ratio: Improves over time as deduplication identifies duplicates and compression reduces unique data.

Purity//FA Automation: These techniques are fully automated and do not require manual intervention.

Reference: Pure Storage FlashArray Documentation: "Understanding Data Reduction in Purity//FA" Pure Storage Whitepaper:

"Maximizing Data Reduction with FlashArray" Pure Storage Knowledge Base: "How Deduplication and Compression Work in FlashArray"

## NEW QUESTION # 28

A cost-conscious customer at a small regional hospital is running a PACS image archive on an NL-disk array.

The customer has the following requirements:

- \* More than 1 PB of storage
- \* Latency is not a concern
- \* Customer user shares must be on the same array

Which solution will meet the customer's needs?

- A. FlashArray//XL
- B. FlashArray//X
- C. FlashArray//C

**Answer: C**

Explanation:

The customer at the small regional hospital requires a storage solution for a PACS image archive with the following requirements:

More than 1 PB of storage

Latency is not a concern

Customer user shares must be on the same array

The best solution to meet these needs is FlashArray//C.

Why This Matters:

FlashArray//C:

FlashArray//C is designed for capacity-optimized workloads, making it ideal for use cases like PACS image archives that require large amounts of storage at a lower cost per GB.

It supports QLC flash technology, which provides high density and cost efficiency for less performance-intensive workloads.

With its ability to scale to over 1 PB of storage, FlashArray//C can meet the customer's capacity requirements while supporting both block and file workloads (e.g., user shares) on the same array using FA File Services.

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 large capacities, it is more expensive and not the most cost-effective solution for latency-insensitive workloads like PACS archives.

B). FlashArray//XL:

FlashArray//XL is designed for extreme-scale workloads requiring massive performance and capacity. It is overkill for this use case and would significantly increase costs without providing proportional benefits.

Key Points:

FlashArray//C: Provides high-density storage at a low cost per GB, ideal for large-scale, latency-insensitive workloads.

Unified Storage: Supports both block and file workloads on the same array, meeting the requirement for user shares.

Cost Efficiency: Balances performance and cost, making it suitable for PACS archives and similar use cases.

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 # 29

A customer that produces video media content needs to replace their multi-rack HDD-based storage array used for video archive. Which Pure Storage solution will meet the customer's needs in the most cost-effective way?

- A. FlashArray//XL
- B. FlashArray//X
- C. FlashArray//C

**Answer: C**

Explanation:

For a customer producing video media content and needing a cost-effective solution to replace their multi-rack HDD-based storage array for video archiving, the best choice is FlashArray//C.

Why This Matters:

FlashArray//C is designed for capacity-optimized workloads, making it ideal for use cases like video archiving, backups, and large-scale data repositories.

It offers high-density storage with QLC flash technology, which provides a balance of performance and cost-effectiveness for less performance-intensive workloads.

Compared to HDD-based systems, FlashArray//C delivers faster access times, lower latency, and improved reliability, all at a lower cost per terabyte than higher-performance arrays like FlashArray//X or //XL.

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 offers exceptional performance, it is more expensive and not the most cost-effective solution for video archiving.

B). FlashArray//XL:

FlashArray//XL is designed for extreme-scale workloads requiring massive performance and capacity. It is overkill for video archiving and would significantly increase costs without providing proportional benefits.

Key Points:

FlashArray//C: Designed for capacity-optimized workloads, offering a cost-effective solution for video archiving.

QLC Flash Technology: Provides high density and reliability at a lower cost per terabyte compared to traditional HDDs or higher-performance flash arrays.

Cost Efficiency: Balances performance and cost, making it ideal for large-scale, less performance-intensive workloads like video media archives.

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 # 30

A customer has two data centers: one in North America and one in England. The customer wants to replicate their production data across data centers, with as low an RPO as possible.

What Pure Storage feature meets their requirements?

- A. ActiveDR
- B. Asynchronous snapshot replication
- C. ActiveCluster

**Answer: A**

Explanation:

The customer wants to replicate production data across two data centers (North America and England) with as low an RPO as possible. The best Pure Storage feature to meet this requirement is ActiveDR.

Why This Matters:

ActiveDR:

ActiveDR is an asynchronous replication solution designed for disaster recovery scenarios where the secondary site may be geographically distant (e.g., across continents).

It provides low RPOs, typically in the range of seconds to minutes, depending on network conditions and workload characteristics.

ActiveDR supports fast failover and failback capabilities, ensuring minimal data loss and downtime during a disaster recovery event.

Why Not the Other Options?

A). ActiveCluster:

ActiveCluster provides synchronous replication between two sites within a stretched cluster, ensuring zero RPO and near-zero RTO. However, it requires both sites to be within a low-latency range (typically <10 ms). Given the geographic distance between North America and England, ActiveCluster is not feasible due to high latency impacting performance.

C). Asynchronous snapshot replication:

Traditional asynchronous snapshot replication typically results in higher RPOs compared to ActiveDR.

It does not provide the same level of optimization for low RPOs as ActiveDR.

Key Points:

ActiveDR: Provides the lowest RPO possible for asynchronous replication, making it ideal for geographically distant sites.

Network Latency: ActiveDR is designed to work efficiently over longer distances and higher latencies compared to synchronous solutions like ActiveCluster.

Disaster Recovery: Ensures protection against site failures with minimal data loss and downtime.

Reference: Pure Storage FlashArray Documentation: "ActiveDR for Disaster Recovery" Pure Storage Whitepaper: "Meeting RPO and RTO Requirements with FlashArray" Pure Storage Knowledge Base: "Choosing the Right Replication Solution for High Latency"

## NEW QUESTION # 31

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