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Exam : FAAA_005

**Title : Pure Storage FlashArray
Architect Associate**

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1 / 9

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The third and last format is the FAAA_005 desktop practice exam software form that can be used without an active internet connection. This software works offline on the Windows operating system. The practice exams benefit your preparation because you can attempt them multiple times to improve yourself for the Pure Storage FlashArray Architect Associate Professional-Cloud-Developer certification test. Our FAAA_005 Exam Dumps are customizable, so you can set the time and questions according to your needs.

Pure Storage FlashArray Architect Associate Sample Questions (Q38-Q43):

NEW QUESTION # 38

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 # 39

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 # 40

Which offering discounts controller upgrades with a purchase of qualifying storage capacity?

- A. Capacity Consolidation
- B. Ever Agile
- **C. Love Your Storage**
- D. Right-Size Guarantee

Answer: C

Explanation:

The offering that discounts controller upgrades with a purchase of qualifying storage capacity is Love Your Storage.

Why This Matters:

Love Your Storage:

This program is part of Pure Storage's Evergreen//Forever subscription model. It allows customers to upgrade their controllers at a discounted rate when they purchase additional qualifying storage capacity.

The goal is to ensure that customers can modernize their infrastructure without incurring excessive costs, aligning with Pure Storage's commitment to providing flexible and future-proof solutions.

Why Not the Other Options?

B). Right-Size Guarantee:

The Right-Size Guarantee allows customers to trade in existing shelves for higher-capacity ones while only paying for the incremental capacity increase. It does not involve discounts on controller upgrades.

C). Capacity Consolidation:

Capacity Consolidation refers to the ability to consolidate workloads onto fewer arrays or shelves but does not include discounts on controller upgrades.

D). Ever Agile:

Ever Agile is a subscription model that provides flexibility in scaling storage and compute resources but does not specifically discount controller upgrades tied to storage purchases.

Key Points:

Love Your Storage: Discounts controller upgrades when purchasing qualifying storage capacity. Evergreen Benefits: Ensures customers can modernize their infrastructure cost-effectively. Future-Proofing: Aligns with Pure Storage's commitment to delivering long-term value.

Reference: Pure Storage Evergreen//Forever Documentation: "Understanding Love Your Storage" Pure Storage Whitepaper:

"Maximizing Value with Evergreen Subscriptions" Pure Storage Knowledge Base: "How Love Your Storage Works"

NEW QUESTION # 41

During a controller upgrade of a Pure Storage FlashArray, what aspect of array design ensures there will be no tangible impact on performance?

- A. Primary/secondary controller architecture
- B. Active/passive controller front-ends ports
- **C. Active/active controller architecture**
- D. Stateful controller architecture

Answer: C

Explanation:

During a controller upgrade of a Pure Storage FlashArray, the active/active controller architecture ensures there will be no tangible impact on performance. This design allows both controllers to handle I/O operations simultaneously, so even if one controller is being upgraded, the other can continue processing workloads without interruption.

Why This Matters:

Active/Active Architecture: In an active/active design, both controllers share the workload equally. If one controller is taken offline for maintenance or upgrades, the remaining controller seamlessly handles all I/O operations.

This ensures continuous availability and consistent performance during upgrades, minimizing downtime and user impact.

Why Not the Other Options?

B). Stateful controller architecture:

While stateful architectures maintain session information, they do not inherently ensure no performance impact during upgrades. The key factor here is the active/active design.

C). Active/passive controller front-end ports:

In an active/passive design, only one controller is actively handling I/O at any given time. If the active controller is upgraded, the passive controller must take over, which can lead to temporary performance degradation.

D). Primary/secondary controller architecture:

Similar to active/passive, this design relies on a primary controller for all operations, making it less resilient during upgrades compared to active/active.

Key Points:

Active/Active Design: Ensures continuous I/O processing during upgrades.

Seamless Upgrades: Minimizes performance impact and downtime for users.

High Availability: Maintains consistent performance and reliability throughout the upgrade process.

Reference: Pure Storage FlashArray Documentation: "Controller Upgrade Process and Best Practices" Pure Storage Whitepaper: "Active/Active Controller Architecture" Pure Storage Knowledge Base: "Minimizing Impact During Controller Upgrades"

NEW QUESTION # 42

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

Answer: C

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 # 43

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