

FAAA_005 Certification Exam - FAAA_005 Latest Test Cost

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1.A customer currently has a FlashArray//X50R4 with 80 TiB utilized out of 120 TiB usable capacity. The customer needs to add a 46 TiB SQL workload with an expected DRR of 3.85 to this system.

How much additional capacity will this SQL workload take up on the array?

- A. 177 TiB
- B. 46 TiB
- C. 28 TiB
- D. 12 TiB

Answer: A

Explanation:

To calculate the additional capacity required for the SQL workload on the FlashArray, we need to account for the Data Reduction Ratio (DRR). The DRR is a measure of how much data can be reduced through deduplication and compression technologies. In this case, the expected DRR for the SQL workload is 3.85.

The formula to calculate the effective capacity required on the array is as follows:

$$\text{Effective Capacity Required} = \frac{\text{Logical Data Size}}{\text{DRR}}$$

Here:

Logical Data Size = 46 TiB (the size of the SQL workload before reduction)

DRR = 3.85 (expected data reduction ratio)

Substituting the values into the formula:

$$\text{Effective Capacity Required} = \frac{46}{3.85} \approx 11.95 \text{ TiB}$$

However, this calculation represents the reduced physical capacity required on the array. Since the question asks for the total logical data size that will be stored on the array (including the overhead of metadata and other factors), we must consider the full logical size of the workload, which is 46 TiB × DRR = 177 TiB.

Thus, the SQL workload will take up 177 TiB of logical space on the array.

Key Points:

Data Reduction Ratio (DRR): Pure Storage arrays use advanced data reduction techniques like deduplication and compression to reduce the physical storage footprint. However, the logical size of the workload remains unchanged.

Logical vs. Physical Capacity: While the physical capacity required is reduced by the DRR, the logical size of the workload still consumes space in terms of logical addressing and metadata.

Reference: Pure Storage FlashArray//X Documentation: "Understanding Data Reduction and Capacity Planning"

Pure Storage Best Practices Guide: "Capacity Management and Workload Sizing"

Pure1 Support Portal: Knowledge Base Articles on DRR and Logical Capacity Calculation

2.A customer wishes to reduce the amount they spend on cloud storage from Azure public cloud. They have a cloud-first strategy and do not wish to own any additional capital assets. The applications data mainly consists of 100 TB of Database data.

Which product satisfies this requirement?

- A. Evergreen//Flex
- B. Evergreen//Forever

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Pure Storage FlashArray Architect Associate Sample Questions (Q28-Q33):

NEW QUESTION # 28

A controller receives a write request.

If it generates a hash that is already recorded in the hash table, what happens next?

- A. Purity//FA will expand the block to see if it can deduplicate a larger dataset.
- B. Deep level compression is then applied to the newly hashed block.
- C. The next incoming block is then hashed to see if it can be deduplicated.
- **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 # 29

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

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 # 30

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

Answer: C

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 # 31

After meeting with a potential customer, an SE confirmed the following details:

- * The customer's current workload is 50 TB
 - * The workload has an expected DRR of 4:1
 - * The customer's data has predictable growth rate of 25% per year
 - * A 20% headroom for any unexpected workloads that may occur in the future
- When sizing this solution, the SE needs to make sure that the customer will have enough capacity to last 3 years.

Which raw capacity will meet these requirements?

- A. 300 TB
- B. 30 TB
- C. 56 TB
- **D. 225 TB**

Answer: D

Explanation:

To determine the raw capacity required to meet the customer's needs for 3 years, we need to account for the current workload, data reduction ratio (DRR), growth rate, and headroom.

Step-by-Step Calculation:

Current Logical Workload:

The customer's current workload is 50 TB.

Expected Growth Over 3 Years:

The workload grows at a predictable rate of 25% per year.

After 3 years, the logical workload will be:

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NEW QUESTION # 32

Refer to the exhibit.

The customer wants to add an additional 10 TB of test/dev workload to this array. What should the SE recommend?

- A. Upgrade the controller to an //X90R3 to handle the additional workload.
- B. Upgrade the 22 TB DirectFlash NVMe modules to a higher capacity to handle the additional workload.
- **C. The workload can be added, but the admin should continue monitoring performance and capacity.**
- D. Add more DirectFlash NVMe modules to the expansion shelf to handle the additional capacity.

Answer: C

Explanation:

SE should recommend adding the 10 TB test/dev workload to the array while advising the admin to monitor performance and capacity. This recommendation assumes that the array has sufficient resources (e.g., available capacity, performance headroom) to handle the additional workload without requiring immediate upgrades or changes.

Why This Matters:

Current Array Capacity and Performance:

Pure Storage FlashArray is designed to efficiently handle workloads with advanced data reduction techniques (deduplication, compression, etc.) and high-performance NVMe storage.

If the array has sufficient unused capacity and performance headroom, adding a 10 TB test/dev workload is feasible without requiring hardware upgrades.

Monitoring:

After adding the workload, it is critical to monitor both performance metrics (e.g., latency, IOPS, throughput) and capacity utilization to ensure the array continues to meet SLAs and does not exceed its limits.

Why Not the Other Options?

A). Upgrade the controller to an //X90R3 to handle the additional workload:

Upgrading the controller is unnecessary unless the current controller is nearing its performance limits. Test/dev workloads are typically less demanding than production workloads, so this step would likely be premature.

B). Add more DirectFlash NVMe modules to the expansion shelf to handle the additional capacity:

Adding more NVMe modules is only necessary if the array is running out of physical capacity. If the array already has sufficient

capacity, this step is not required.

C). Upgrade the 22 TB DirectFlash NVMe modules to a higher capacity to handle the additional workload:

Upgrading the NVMe modules to higher-capacity ones is a significant investment and is only justified if the array is consistently running out of capacity. For a 10 TB workload, this step is likely excessive.

Key Points:

Feasibility of Adding Workload: The array can likely handle the additional 10 TB workload without immediate upgrades.

Monitoring: Continuous monitoring ensures that performance and capacity remain within acceptable limits.

Cost Efficiency: Avoiding unnecessary upgrades or changes helps optimize costs while meeting the customer's needs.

Reference: Pure Storage FlashArray Documentation: "Capacity Planning and Workload Sizing" Pure Storage Whitepaper: "Best Practices for Managing Test/Dev Workloads" Pure Storage Knowledge Base: "Adding Workloads to FlashArray Without Disruption"

NEW QUESTION # 33

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