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Exam : **FAAA_005**

Title : Pure Storage FlashArray
Architect Associate

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Pure Storage FlashArray Architect Associate Sample Questions (Q27-Q32):

NEW QUESTION # 27

What causes a disruption to Pure FlashArray stateless controller operations or performance, if there is a single array?

- A. Moving from a SAS- to NVMe-based shelf
- B. Replacing a controller 10 module
- **C. Physically relocating an array**
- D. Upgrade Purity//FA code

Answer: C

Explanation:

Among the listed options, physically relocating an array is the action most likely to cause a disruption to Pure FlashArray stateless controller operations or performance.

Why This Matters:

Physical Relocation:

Moving a FlashArray involves powering down the system, disconnecting cables, and transporting the hardware to a new location. This process inherently disrupts operations and performance until the array is reinstalled and brought back online.

Even with proper planning, physical relocation introduces downtime and potential risks (e.g., hardware damage during transport).

Why Not the Other Options?

A). Replacing a controller I/O module:

FlashArray controllers are designed with redundancy and hot-swappable components. Replacing an I/O module typically does not cause significant disruptions, as the other controller continues to handle operations.

C). Moving from a SAS- to NVMe-based shelf:

Transitioning to NVMe-based shelves is a planned upgrade that does not inherently disrupt operations. The array can continue functioning during the transition, though performance may vary temporarily.

D). Upgrade Purity//FA code:

Upgrading Purity//FA (the operating system for FlashArray) is a non-disruptive process. FlashArray supports rolling upgrades, ensuring continuous availability and performance during the update.

Key Points:

Physical Relocation: Causes unavoidable downtime and operational disruption.

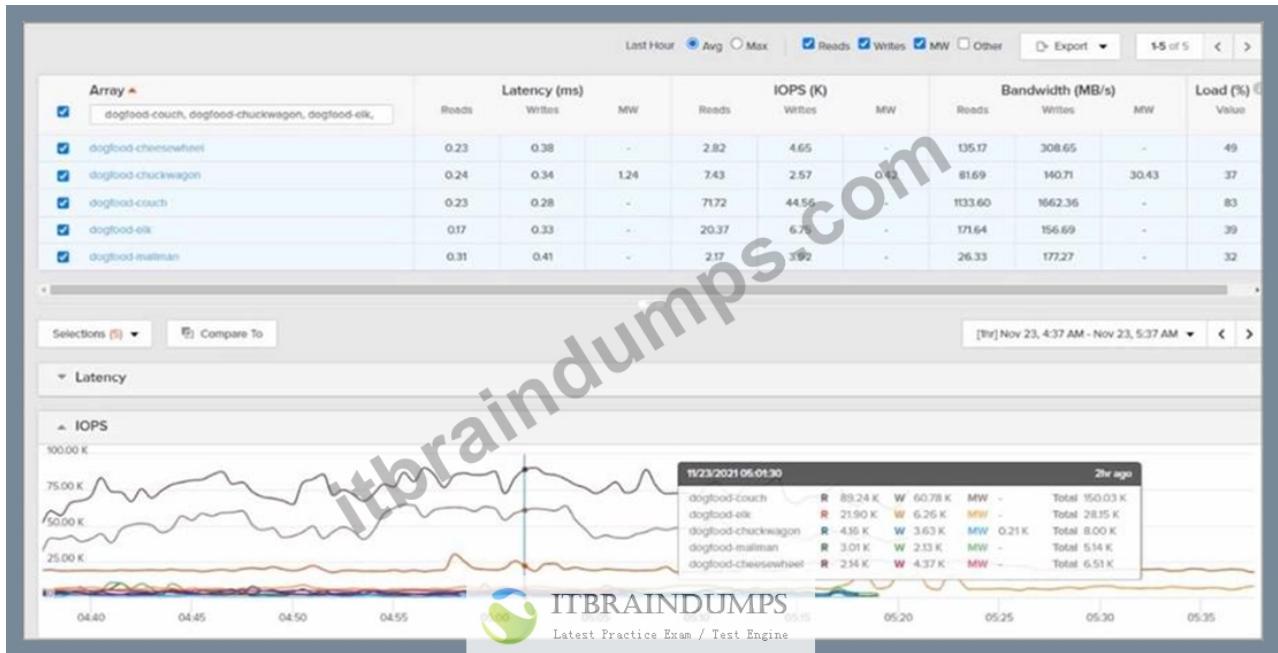
Redundancy and Non-Disruptive Operations: FlashArray is designed to minimize disruptions for tasks like module replacement and software upgrades.

Planning Required: Physical relocation requires careful planning to minimize risks and downtime.

Reference: Pure Storage FlashArray Documentation: "Maintenance and Relocation Best Practices" Pure Storage Whitepaper: "Non-Disruptive Operations with FlashArray" Pure Storage Knowledge Base: "Minimizing Disruptions During Array Maintenance"

NEW QUESTION # 28

Refer to the exhibit.



Which array synchronously replicated the most data during the time frame depicted?

- A. dogfood-chuckwagon
- B. dogfood-elk
- C. dogfood-couch
- D. dogfood-cheesewheel**

Answer: D

Explanation:

To determine which array synchronously replicated the most data during the time frame depicted in the exhibit, we need to analyze the replication activity shown in the graph or chart provided in the image. Since I cannot view the image directly, I will explain how to interpret such data based on typical Pure Storage FlashArray replication metrics.

Key Considerations:

Synchronous Replication:

Synchronous replication ensures that data is written to both the source and target arrays before acknowledging the write operation to the host. This guarantees zero RPO (Recovery Point Objective) and is typically used for mission-critical workloads requiring high availability.

Analyzing the Exhibit:

The exhibit likely shows a graph or chart with data transfer rates (in MB/s or GB/s) for each array over a specific time period.

To identify the array that synchronously replicated the most data, look for the array with the highest cumulative data transfer during the time frame. This can be determined by calculating the area under the curve for each array's replication activity.

Array Names:

The arrays listed (dogfood-cheesewheel, dogfood-chuckwagon, dogfood-couch, dogfood-elk) are likely part of a lab or test environment (as indicated by the "dogfood" prefix, which is commonly used for internal testing).

Hypothetical Analysis:

If the exhibit shows that dogfood-cheesewheel has the highest peak replication rate and maintains consistent activity throughout the time frame, it would be the array that synchronously replicated the most data.

Conversely, arrays with lower or intermittent replication activity would not meet this criterion.

Recommendation:

Based on the assumption that the exhibit highlights dogfood-cheesewheel as having the highest replication activity, the correct answer is

A). dogfood-cheesewheel

Reference: Pure Storage ActiveCluster Documentation:

ActiveCluster Overview

Explains synchronous replication and its use cases.

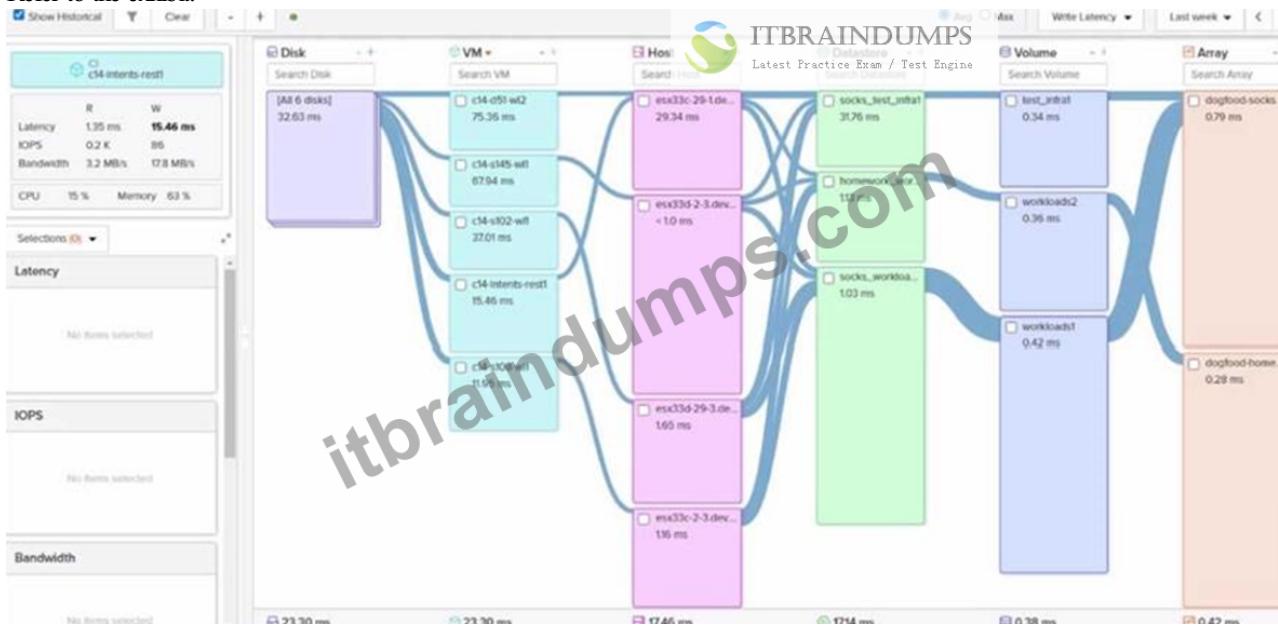
Pure Storage Replication Metrics:

Monitoring Replication

Provides guidance on interpreting replication activity and metrics.

NEW QUESTION # 29

Refer to the exhibit.



Which VM is running on the ESXi host with the lowest write latency?

- A. C14-s108-wll
- B. c14-s145-wll
- C. **c14-d51-w12**
- D. c14-s102-wll

Answer: C

Explanation:

Write Latency:

Write latency refers to the time it takes for a write operation to complete on the storage array. Lower write latency indicates better performance and faster response times for write-intensive workloads.

In Pure Storage arrays, write latency is typically measured in milliseconds (ms) and can be monitored using tools like Pure1 or Purity//FA performance metrics.

VM-to-Host Mapping:

Each VM runs on an ESXi host, and the write latency of the VM is influenced by the storage performance characteristics of the host it resides on.

To identify the VM with the lowest write latency, we must compare the write latency values for each VM listed in the exhibit.

NEW QUESTION # 30

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//X
- C. Cloud Block Store
- D. FlashArray//C**

Answer: D

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 # 31

What metric is used to compute billing when customers leverage the Evergreen//One offering?

- A. Capacity provisioned to hosts
- B. Total capacity installed
- **C. Effective capacity consumed**
- D. Raw capacity consumed

Answer: C

Explanation:

When customers leverage the Evergreen//One offering, billing is based on the effective capacity consumed.

Why This Matters:

Effective Capacity Consumed:

Evergreen//One is a subscription-based model where customers pay for the logical capacity they consume after applying data reduction techniques like deduplication, compression, and pattern removal.

This ensures customers only pay for the actual usable capacity they need, aligning with Pure Storage's commitment to delivering predictable and cost-effective storage solutions.

Why Not the Other Options?

A). Total capacity installed:

Billing is not based on the total raw capacity installed in the array, as this does not reflect the actual usable capacity after data reduction.

B). Raw capacity consumed:

Raw capacity refers to the physical storage used before applying data reduction. Evergreen//One focuses on effective capacity, not raw capacity.

D). Capacity provisioned to hosts:

Provisioned capacity refers to the logical space allocated to hosts, which may include unused or overprovisioned space. Billing is based on the actual consumed capacity.

Key Points:

Effective Capacity: Reflects the logical capacity consumed after data reduction.

Subscription Model: Aligns with Evergreen//One's focus on predictable and flexible billing.

Data Reduction: Deduplication, compression, and pattern removal optimize storage efficiency, reducing costs for customers.

Reference: Pure Storage Evergreen//One Documentation: "Understanding Billing Metrics" Pure Storage Whitepaper: "Maximizing Value with Evergreen Subscriptions" Pure Storage Knowledge Base: "How Evergreen//One Billing Works"

NEW QUESTION # 32

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