

FAAA_005 Exam Registration, Valid FAAA_005 Practice Questions

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 $46 \text{ TiB} \times \text{DRR} = 177 \text{ TiB}$.

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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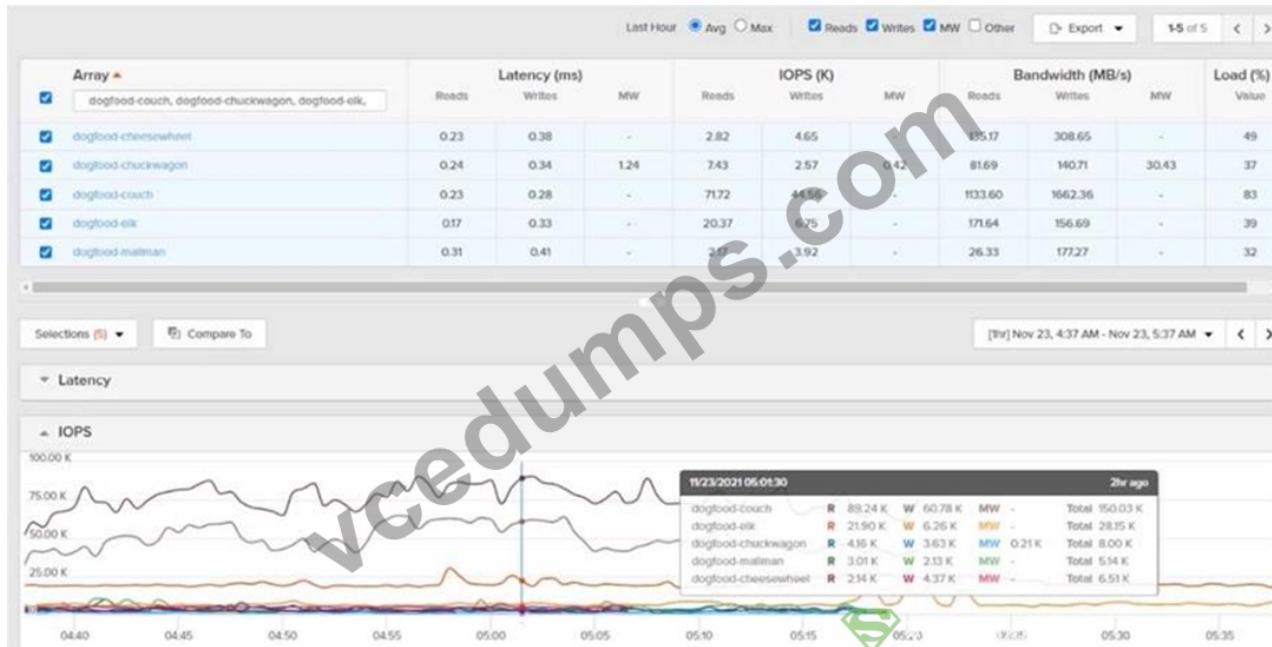
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Pure Storage FlashArray Architect Associate Sample Questions (Q59-Q64):

NEW QUESTION # 59

Refer to the exhibit.



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

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

Answer: A

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 # 60

Which Pure Storage offering can be deployed in AWS?

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

Answer: C

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 # 61

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

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

Answer: B

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 # 62

A System Administrator has a FlashArray//X70R3. They need to add a backup element as part of their data protection strategy.

They have the following requirements:

- * The solution should be offsite
- * Cost needs to be kept as low as possible
- * The backup needs to be stored in a different location from their current FlashArray
- * Restore times are not a concern

Which solution should the SE recommend to the System Administrator?

- A. CloudSnap to a public cloud provider
- B. ActiveCluster to a FlashArray//C60
- C. ActiveDR to a FlashArray//C60

Answer: A

Explanation:

The System Administrator requires an offsite backup solution that is cost-effective, stores data in a different location from the current FlashArray, and does not prioritize restore times. The best solution to recommend is CloudSnap to a public cloud provider.

Why This Matters:

CloudSnap:

CloudSnap is a feature that offloads snapshots to cloud storage providers like AWS S3 or Azure Blob.

It is highly cost-effective because customers only pay for the cloud storage they use, and it eliminates the need for additional on-premises hardware.

Since restore times are not a concern, CloudSnap's slower restore process compared to on-premises solutions is acceptable.

Why Not the Other Options?

A). ActiveCluster to a FlashArray//C60:

ActiveCluster provides synchronous replication for high availability but does not meet the requirement for an offsite backup solution. Additionally, it is more expensive than CloudSnap.

B). ActiveDR to a FlashArray//C60:

ActiveDR provides asynchronous replication for disaster recovery but requires additional hardware (FlashArray//C60), which increases costs. It is less cost-effective than CloudSnap for backup purposes.

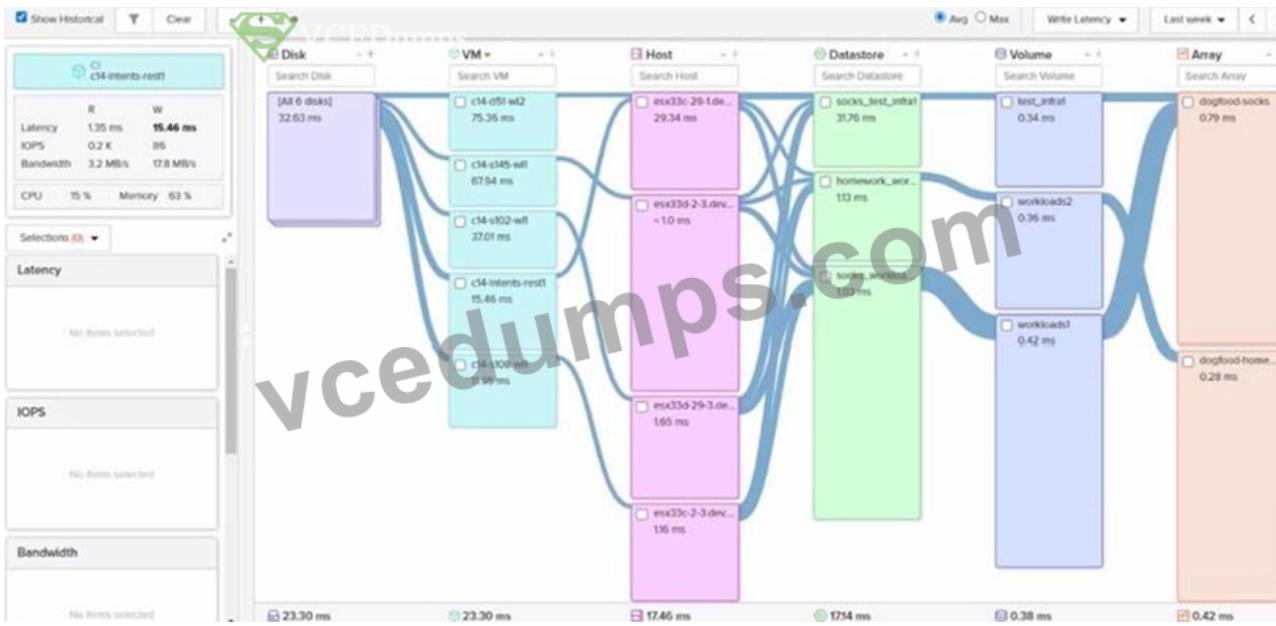
Key Points:

Cost Efficiency: CloudSnap leverages cloud storage, minimizing upfront and ongoing costs. Offsite Storage: Ensures backups are stored in a different location from the primary FlashArray. Restore Times: CloudSnap's slower restore process is acceptable given the customer's requirements.

Reference: Pure Storage FlashArray Documentation: "CloudSnap for Offsite Backups" Pure Storage Whitepaper: "Cost-Effective Backup Strategies with FlashArray" Pure Storage Knowledge Base: "Choosing the Right Backup Solution for Your Workload"

NEW QUESTION # 63

Refer to the exhibit.



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

- A. c14-s145-w11
- B. c14-d51-w12**
- C. c14-s102-w11
- D. C14-s108-w11

Answer: B

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 # 64

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