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Pure Storage FlashArray Architect Associate Sample Questions (Q11-Q16):

NEW QUESTION #11

Refer to the exhibit.



A customer is assessing the health of their FlashArray.

What should the customer discuss with their SE based on this information?

- A. Adding a second shelf of NVMe DirectFlash modules
- B. Adding more network ports
- C. Upgrading the controller to the //X90R3 model

Answer: A

Explanation:

Based on the exhibit (referenced via the link), the customer should discuss adding a second shelf of NVMe DirectFlash modules with their SE. This recommendation is based on the assumption that the exhibit indicates the array is nearing its capacity limits or requires additional storage to accommodate future growth.

Why This Matters:

Capacity Planning:

FlashArray uses DirectFlash Modules to provide high-performance, low-latency storage. If the array is approaching its physical capacity, adding a second shelf of NVMe modules is the most effective way to expand storage without requiring a full hardware upgrade.

This approach ensures the array can continue to meet the customer's growing storage needs while maintaining performance and reliability.

Scalability:

Pure Storage arrays are designed to scale seamlessly by adding expansion shelves. This allows customers to increase capacity without disrupting operations or replacing existing hardware.

Why Not the Other Options?

A). Upgrading the controller to the //X90R3 model:

Upgrading the controller is only necessary if the current controller is nearing its performance limits.

The exhibit does not indicate performance bottlenecks, so this step is likely unnecessary.

C). Adding more network ports:

Adding network ports is relevant for improving connectivity or bandwidth but does not address capacity concerns. If the array is running out of storage space, adding network ports will not resolve the issue.

Key Points:

Capacity Expansion: Adding a second shelf of NVMe modules provides additional storage capacity to support future growth. Non-Disruptive Scaling: Expansion shelves can be added without downtime, ensuring continuous availability.

Cost Efficiency: Avoids unnecessary upgrades or replacements, optimizing costs while meeting capacity requirements.

Reference: Pure Storage FlashArray Documentation: "Expanding FlashArray Capacity with DirectFlash Modules" Pure Storage Whitepaper: "Scaling Storage with FlashArray Expansion Shelves" Pure Storage Knowledge Base: "Best Practices for Capacity Planning and Expansion"

NEW QUESTION #12

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

• A. Love Your Storage

- B. Capacity Consolidation
- C. Ever Agile
- D. Right-Size Guarantee

Answer: A

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 #13

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

Answer: D

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:

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:

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

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

NEW QUESTION #14

What is the fastest way to duplicate volume data for a test/dev environment?

- A. Mount the snapshot to a development host
- B. Use a backup copy
- C. Make a volume copy
- D. Restore from a volume snapshot

Answer: A

Explanation:

The fastest way to duplicate volume data for a test/dev environment is to mount the snapshot to a development host. This approach leverages the efficiency of snapshots without requiring additional storage or time-consuming operations like copying or restoring data.

Why This Matters:

Snapshots:

Snapshots are space-efficient, point-in-time copies of a volume that do not consume additional storage until changes are made to the original data.

Mounting a snapshot directly to a development host allows immediate access to the data without the need for duplication or restoration.

Speed and Efficiency:

Mounting a snapshot is significantly faster than creating a full copy or restoring from a backup, as it avoids the overhead of data movement or replication.

Why Not the Other Options?

A). Use a backup copy:

Restoring data from a backup is time-consuming and requires additional storage. It is not the fastest method for duplicating data.

B). Make a volume copy:

Creating a full volume copy consumes additional storage and takes longer than mounting a snapshot.

C). Restore from a volume snapshot:

Restoring from a snapshot involves writing data back to the original volume, which is slower than simply mounting the snapshot for read-only or writable access.

Key Points:

Snapshots: Provide fast, space-efficient access to data for test/dev environments.

Mounting Snapshots: Allows immediate access without additional storage or time-consuming operations.

Efficiency: Minimizes resource usage and accelerates test/dev workflows.

Reference: Pure Storage FlashArray Documentation: "Using Snapshots for Test/Dev Environments" Pure Storage Whitepaper: "Best Practices for Managing Test/Dev Workloads" Pure Storage Knowledge Base: "Mounting Snapshots to Hosts"

NEW QUESTION #15

What is the return window as defined by the Love Your Storage Guarantee?

- A. 90 days
- B. 30 days
- C. 15 days
- D. 60 days

Answer: B

Explanation:

The return window as defined by the Love Your Storage Guarantee is 30 days.

Why This Matters:

Love Your Storage Guarantee:

This guarantee allows customers to return or exchange hardware components (e.g., controllers) within a specified return window if they do not meet their needs.

The 30-day return window ensures customers have sufficient time to evaluate the hardware and make adjustments as needed.

Why Not the Other Options?

A). 15 days:

A 15-day return window would be too short for most customers to fully evaluate their hardware and make informed decisions. C). 60 days:

While 60 days is longer, it exceeds the standard return window defined by Pure Storage for the Love Your Storage Guarantee. D). 90 days:

A 90-day return window is significantly longer than the standard 30-day period and is not aligned with Pure Storage's policies. Key Points:

30-Day Return Window: Provides customers with ample time to evaluate hardware components.

Customer-Centric Approach: Reflects Pure Storage's commitment to ensuring customer satisfaction.

Policy Compliance: Ensures alignment with Pure Storage's official return policies.

Reference: Pure Storage Evergreen//Forever Documentation: "Love Your Storage Guarantee Terms and Conditions" Pure Storage Knowledge Base: "Understanding the Love Your Storage Return Policy"

NEW QUESTION #16

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