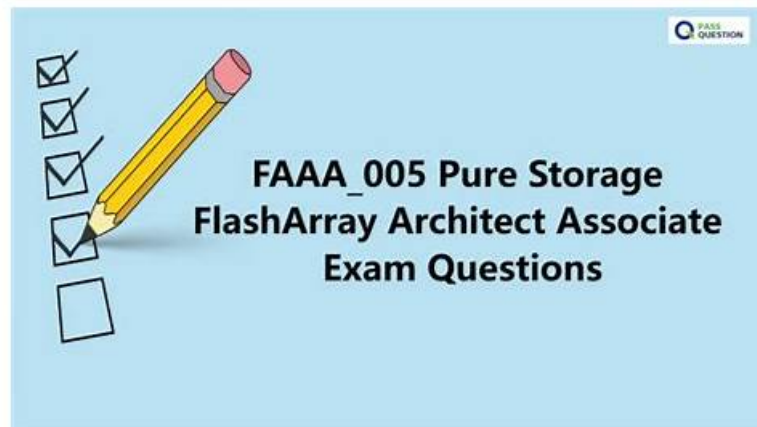


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Pure Storage FlashArray Architect Associate Sample Questions (Q16-Q21):

NEW QUESTION # 16

Refer to the exhibit.



Which FlashArray controller(s) does the exhibit show?

- A. Top: Primary, Bottom: Secondary

- B. Top: CTO, Bottom: CT1
- C. Top: CT1, Bottom: CT2

Answer: C

Explanation:

Exhibit controllers of a Pure Storage FlashArray, specifically labeled as CT1 (top) and CT2 (bottom).

This labeling is consistent with Pure Storage's naming convention for its controllers.

Why This Matters:

Controller Identification:

Pure Storage FlashArray controllers are typically labeled as CT1 and CT2 to distinguish between the two controllers in an active/active architecture.

Both controllers work together to provide high availability and redundancy, ensuring seamless operation even if one controller is offline for maintenance or upgrades.

Active/Active Architecture:

In an active/active design, both controllers share the workload equally. If one controller is taken offline, the other seamlessly handles all I/O operations without impacting performance or availability.

Why Not the Other Options?

B). Top: Primary, Bottom: Secondary:

Pure Storage does not use "Primary" and "Secondary" labels for its controllers. Instead, it uses specific identifiers like CT1 and CT2 to refer to the controllers.

C). Top: CTO, Bottom: CT1:

The label "CTO" is not a valid designation for FlashArray controllers. Pure Storage consistently uses CT1 and CT2 to identify the controllers.

Key Points:

Controller Labels: Pure Storage FlashArray controllers are labeled as CT1 and CT2.

Active/Active Design: Both controllers operate simultaneously to ensure high availability and performance.

Redundancy: The dual-controller architecture provides fault tolerance and minimizes downtime during maintenance or failures.

Reference: Pure Storage FlashArray Documentation: "Understanding FlashArray Controller Architecture" Pure Storage Knowledge Base: "Identifying FlashArray Controllers" Pure Storage Whitepaper: "Active/Active Controller Design for High Availability"

NEW QUESTION # 17

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

Answer: B

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 # 18

A customer has two data centers: one in North America and one in England. The customer wants to replicate their production data across data centers, with as low an RPO as possible.

What Pure Storage feature meets their requirements?

- A. ActiveDR
- B. ActiveCluster
- C. Asynchronous snapshot replication

Answer: A

Explanation:

The customer wants to replicate production data across two data centers (North America and England) with as low an RPO as possible. The best Pure Storage feature to meet this requirement is ActiveDR.

Why This Matters:

ActiveDR:

ActiveDR is an asynchronous replication solution designed for disaster recovery scenarios where the secondary site may be geographically distant (e.g., across continents).

It provides low RPOs, typically in the range of seconds to minutes, depending on network conditions and workload characteristics.

ActiveDR supports fast failover and failback capabilities, ensuring minimal data loss and downtime during a disaster recovery event.

Why Not the Other Options?

A). ActiveCluster:

ActiveCluster provides synchronous replication between two sites within a stretched cluster, ensuring zero RPO and near-zero RTO. However, it requires both sites to be within a low-latency range (typically <10 ms). Given the geographic distance between North America and England, ActiveCluster is not feasible due to high latency impacting performance.

C). Asynchronous snapshot replication:

Traditional asynchronous snapshot replication typically results in higher RPOs compared to ActiveDR.

It does not provide the same level of optimization for low RPOs as ActiveDR.

Key Points:

ActiveDR: Provides the lowest RPO possible for asynchronous replication, making it ideal for geographically distant sites.

Network Latency: ActiveDR is designed to work efficiently over longer distances and higher latencies compared to synchronous

solutions like ActiveCluster.

Disaster Recovery: Ensures protection against site failures with minimal data loss and downtime.

Reference: Pure Storage FlashArray Documentation: "ActiveDR for Disaster Recovery" Pure Storage Whitepaper: "Meeting RPO and RTO Requirements with FlashArray" Pure Storage Knowledge Base: "Choosing the Right Replication Solution for High Latency"

NEW QUESTION # 19

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

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

Answer: D

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 # 20

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. 177 TiB**
- C. 28 TiB
- D. 46 TiB

Answer: B

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

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

NEW QUESTION # 21

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