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1 / 9

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## Pure Storage FlashArray Architect Associate Sample Questions (Q58-Q63):

### NEW QUESTION # 58

During a controller upgrade of a Pure Storage FlashArray, what aspect of array design ensures there will be no tangible impact on performance?

- A. Active/passive controller front-ends ports
- **B. Active/active controller architecture**
- C. Stateful controller architecture
- D. Primary/secondary controller architecture

### Answer: B

Explanation:

During a controller upgrade of a Pure Storage FlashArray, the active/active controller architecture ensures there will be no tangible impact on performance. This design allows both controllers to handle I/O operations simultaneously, so even if one controller is being upgraded, the other can continue processing workloads without interruption.

Why This Matters:

Active/Active Architecture: In an active/active design, both controllers share the workload equally. If one controller is taken offline for maintenance or upgrades, the remaining controller seamlessly handles all I/O operations.

This ensures continuous availability and consistent performance during upgrades, minimizing downtime and user impact.

Why Not the Other Options?

B). Stateful controller architecture:

While stateful architectures maintain session information, they do not inherently ensure no performance impact during upgrades. The key factor here is the active/active design.

C). Active/passive controller front-end ports:

In an active/passive design, only one controller is actively handling I/O at any given time. If the active controller is upgraded, the passive controller must take over, which can lead to temporary performance degradation.

D). Primary/secondary controller architecture:

Similar to active/passive, this design relies on a primary controller for all operations, making it less resilient during upgrades compared to active/active.

Key Points:

Active/Active Design: Ensures continuous I/O processing during upgrades.

Seamless Upgrades: Minimizes performance impact and downtime for users.

High Availability: Maintains consistent performance and reliability throughout the upgrade process.

Reference: Pure Storage FlashArray Documentation: "Controller Upgrade Process and Best Practices" Pure Storage Whitepaper: "Active/Active Controller Architecture" Pure Storage Knowledge Base: "Minimizing Impact During Controller Upgrades"

### NEW QUESTION # 59

A customer is reviewing their disaster recovery strategy and want to replicate their data to a secondary datacenter. They have stated that they have internal SLAs around RPO and RTO that they are not currently meeting.

Which two FlashArray features should the SE focus on? (Choose two.)

- A. CloudSnap
- **B. ActiveDR**
- C. ActiveCluster
- **D. FlashRecover**

### Answer: B,D

#### Explanation:

The customer is reviewing their disaster recovery (DR) strategy and wants to replicate data to a secondary datacenter while addressing internal SLAs for RPO (Recovery Point Objective) and RTO (Recovery Time Objective). To meet these requirements, the SE should focus on two key Pure Storage FlashArray features: FlashRecover and ActiveDR.

#### Why These Features?

##### FlashRecover:

FlashRecover is a snapshot-based replication feature that allows efficient point-in-time copies of data to be replicated to a secondary site.

It helps achieve low RPOs by enabling frequent snapshots and replication to the DR site. This ensures minimal data loss in the event of a failure. ActiveDR:

ActiveDR is a disaster recovery solution that provides asynchronous replication between two FlashArrays.

It is specifically designed to minimize RTO by enabling fast failover and failback capabilities.

ActiveDR ensures that the secondary site is always ready to take over with minimal downtime, meeting strict RTO requirements.

#### Why Not the Other Options?

##### B). ActiveCluster:

ActiveCluster is a synchronous replication solution for high availability across two sites. While it provides zero RPO and near-zero RTO, it requires both sites to be within synchronous distance (typically <10ms latency). Since the customer is replicating to a secondary datacenter (likely farther away), ActiveCluster is not suitable.

##### C). CloudSnap:

CloudSnap is a feature that offloads snapshots to cloud storage (e.g., AWS S3 or Azure Blob). While it is useful for backup and archival purposes, it does not provide the real-time replication and failover capabilities needed for DR with strict RPO and RTO SLAs.

#### Key Points:

FlashRecover: Enables efficient replication with low RPOs through snapshot-based replication.

ActiveDR: Provides asynchronous replication with fast failover and failback capabilities to meet RTO requirements.

SLA Alignment: Both features are designed to help customers meet their internal SLAs for RPO and RTO.

Reference: Pure Storage FlashArray Documentation: "Disaster Recovery with FlashRecover and ActiveDR" Pure Storage Whitepaper: "Meeting RPO and RTO Requirements with FlashArray" Pure Storage Knowledge Base: "Best Practices for Disaster Recovery Planning"

## NEW QUESTION # 60

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

#### Answer: A

#### 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 # 61

Refer to the exhibit.

What does the depicted value 77.24 T represent?

- A. Total deduplicated space
- **B. The guaranteed capacity**
- C. Total raw space on the array
- D. Total useable space

**Answer: B**

Explanation:

The value 77.24 T in the context of Pure Storage FlashArray represents C. The guaranteed capacity.

Detailed Explanation

Guaranteed Capacity is a feature of Pure Storage's Evergreen subscription model. It reflects the effective capacity Pure Storage commits to the customer based on their typical data reduction ratios (deduplication, compression, and pattern removal). This value is calculated as:

Guaranteed Capacity=Physical Raw Capacity×Data Reduction Factor (DRF)  
Guaranteed Capacity=Physical Raw Capacity×Data Reduction Factor (DRF)  
Pure typically guarantees a minimum DRF (e.g., 3:1 for many workloads), but actual savings often exceed this.

Why Not the Other Options?

A). Total usable space: This would include the total logical capacity after data reduction and overheads (RAID-HD, metadata), which is usually larger than the guaranteed capacity.

B). Total raw space: This refers to the physical capacity of drives (e.g., 100TB raw). The value shown (77.24T) is smaller than raw, so this is incorrect.

D). Total deduplicated space: Pure Storage combines dedupe, compression, and pattern removal into a single "data reduction" metric. Deduplication alone is not isolated in capacity reporting.

Official

Reference: Pure Storage documentation explicitly defines Guaranteed Capacity as the "logical capacity Pure commits to deliver, factoring in data reduction." This aligns with the Evergreen/Forever subscription model, where customers pay for usable capacity, not raw storage.

## NEW QUESTION # 62

Pure Storage's Right-Size Guarantee protects the customer for how long?

- A. 30 days starting from the date of arrival
- B. 6 months starting from the date of arrival
- **C. 12 months starting from the date of arrival**
- D. Until the Evergreen subscription expires

**Answer: C**

Explanation:

Pure Storage's Right-Size Guarantee protects the customer for 12 months starting from the date of arrival. This guarantee ensures that if the customer's storage needs grow beyond their initial purchase, they can upgrade to larger capacity shelves or arrays without

overpaying for the additional capacity.

Why This Matters:

The 12-month protection period gives customers ample time to assess their storage requirements and make adjustments as needed.

This flexibility is particularly valuable for organizations with dynamic or unpredictable growth patterns.

By protecting the customer for a full year, Pure Storage ensures that they can scale their storage infrastructure efficiently without incurring unnecessary costs.

Why Not the Other Options?

A). 30 days starting from the date of arrival:

A 30-day protection period would be insufficient for most customers to evaluate their storage needs and make informed decisions about upgrades.

B). 6 months starting from the date of arrival:

While 6 months is longer than 30 days, it is still shorter than the standard 12-month protection period offered by Pure Storage.

D). Until the Evergreen subscription expires:

The Right-Size Guarantee is not tied to the duration of the Evergreen subscription. It is specifically valid for 12 months from the date of arrival.

Key Points:

12-Month Protection: Provides customers with a full year to assess their storage needs and leverage the Right-Size Guarantee.

Scalability: Ensures customers can upgrade their storage infrastructure cost-effectively as their needs evolve.

Customer-Centric Approach: Reflects Pure Storage's commitment to delivering flexible and future-proof solutions.

Reference: Pure Storage Evergreen//Forever Documentation: "Right-Size Guarantee Terms and Conditions" Pure Storage

Whitepaper: "Maximizing Value with Evergreen Subscriptions" Pure Storage Knowledge Base: "Understanding the Right-Size Guarantee Duration"

## NEW QUESTION # 63

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