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1 / 9

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Pure Storage FlashArray Architect Associate Sample Questions (Q53-Q58):

NEW QUESTION # 53

A company has two data centers that are 30 miles apart with a round trip latency of 4ms.

What Pure Storage software will allow the lowest RPO disaster recovery strategy between the two data centers?

- A. Purity Snapshots
- **B. Purity Snapshot Replication**
- C. Purity ActiveCluster
- D. Pure1 Manage

Answer: B

Explanation:

To achieve the lowest RPO (Recovery Point Objective) disaster recovery strategy between two data centers located 30 miles apart with a round-trip latency of 4ms, Purity Snapshot Replication is the best choice.

Here's why:

Analysis of Options:

A). Purity Snapshot Replication:

Snapshot Replication is an asynchronous replication method that periodically replicates snapshots of volumes to a remote FlashArray.

With a round-trip latency of 4ms, Snapshot Replication can achieve very low RPOs (typically seconds to minutes), making it suitable for disaster recovery in this scenario.

B). Purity ActiveCluster:

ActiveCluster is a synchronous replication solution that provides active-active high availability across two arrays.

While ActiveCluster offers zero RPO and zero RTO, it is typically limited to shorter distances due to latency constraints. At 30 miles and 4ms latency, ActiveCluster may still work but is less optimal compared to Snapshot Replication for disaster recovery.

C). Pure1 Manage:

Pure1 Manage is a cloud-based monitoring and management platform for Pure Storage arrays. It does not provide replication or disaster recovery capabilities.

D). Purity Snapshots:

Snapshots are point-in-time copies of data stored locally on the FlashArray. They do not provide replication to a remote site and are therefore unsuitable for disaster recovery.

Recommendation:

The correct answer is

A). Purity Snapshot Replication, as it provides the lowest RPO for disaster recovery over a 30-mile distance with 4ms latency.

Reference: Purity Snapshot Replication Documentation:

Purity Snapshot Replication

Explains how Snapshot Replication works and its use cases.

Purity ActiveCluster Documentation:

Purity ActiveCluster

Details the capabilities and limitations of ActiveCluster.

NEW QUESTION # 54

What architectural design simplifies controller upgrades from FlashArray//XR2 to //XR3?

- A. Re-use of existing HBAs to prevent WWN changes
- B. NVRAM modules in both controllers
- **C. Common controller chassis for both models**
- D. InfiniBand connectivity between controllers

Answer: C

Explanation:

The architectural design that simplifies controller upgrades from FlashArray//XR2 to //XR3 is the use of a common controller chassis for both models. This design allows customers to upgrade their controllers without replacing the entire array chassis, minimizing downtime and complexity during the upgrade process.

Why This Matters:

The common controller chassis ensures that the physical infrastructure (e.g., drive shelves, power supplies, and other components) remains unchanged during the upgrade. Only the controllers themselves need to be swapped out, which significantly reduces the time and effort required for the upgrade.

This approach also eliminates the need for re-cabling or reconfiguring the array, as the chassis and its connections remain consistent between the two models.

Why Not the Other Options?

B). InfiniBand connectivity between controllers: While InfiniBand is used for high-speed communication between controllers in FlashArray systems, it is not directly related to simplifying controller upgrades. It is a feature of the architecture but does not address the ease of upgrading between models.

C). NVRAM modules in both controllers: NVRAM (Non-Volatile RAM) is used to ensure data integrity during power loss, but it is not a factor in simplifying controller upgrades. Both XR2 and XR3 models include NVRAM, so this is not unique to the upgrade process.

D). Re-use of existing HBAs to prevent WWN changes: While reusing HBAs can help avoid changes to World Wide Names (WWNs), this is not a key factor in simplifying the upgrade process. The common controller chassis is the primary design feature that streamlines the upgrade.

Key Points:

Common Controller Chassis: Enables seamless upgrades by allowing the replacement of controllers without changing the rest of the array infrastructure.

Minimized Downtime: Reduces the time and complexity of upgrades, ensuring minimal disruption to operations.

Consistency Across Models: Ensures compatibility and continuity between different generations of FlashArray controllers.

Reference: Pure Storage FlashArray//X Documentation: "Controller Upgrade Process and Best Practices" Pure Storage Whitepaper: "Evergreen Architecture and Controller Upgrades" Pure Storage Knowledge Base: "Upgrading FlashArray Controllers Without Downtime"

NEW QUESTION # 55

A manufacturing customer is running Oracle volumes on their existing //X90R3 array and would like to use FlashArray for their Windows file shares. They are asking if it is feasible to do this.

How should the SE respond?

- A. The customer should be able to use their current FlashArray.
- B. The customer needs to upgrade to XL to be able to use FA File.
- C. The customer should migrate their Windows file servers to Pure.

Answer: A

Explanation:

The SE should respond that the customer can use their current FlashArray for Windows file shares alongside their existing Oracle workloads. Pure Storage FlashArray is a versatile platform capable of supporting multiple workloads, including block storage for databases (e.g., Oracle) and file services for Windows file shares.

Why This Matters:

FlashArray Versatility:

Pure Storage FlashArray supports both block and file workloads through its integrated architecture. While FlashArray is primarily known for block storage, it can also support file workloads using FA File Services, which provides NFS and SMB protocols for file sharing.

The customer does not need to migrate their Windows file servers or upgrade their hardware unless there are specific capacity or performance constraints.

Current Array Feasibility:

Assuming the existing //X90R3 array has sufficient capacity and performance headroom, it can handle the additional workload without requiring upgrades.

Why Not the Other Options?

A). The customer should migrate their Windows file servers to Pure:

While migrating file servers to Pure Storage can provide benefits like simplified management and improved performance, it is not a requirement. The customer can continue using their existing file servers while leveraging FlashArray for block storage.

B). The customer needs to upgrade to XL to be able to use FA File:

Upgrading to a higher-end model like FlashArray//XL is unnecessary unless the current array lacks the required capacity or

performance for the additional workload. The //X90R3 is fully capable of supporting FA File Services.

Key Points:

Versatility: FlashArray can support both block and file workloads simultaneously.

No Immediate Upgrades Needed: The current array can likely handle the additional workload without requiring hardware changes.

Workload Consolidation: Using a single platform for multiple workloads simplifies infrastructure and reduces costs.

Reference: Pure Storage FlashArray Documentation: "FA File Services Overview" Pure Storage Whitepaper: "Consolidating Workloads on FlashArray" Pure Storage Knowledge Base: "Supporting Multiple Workloads with FlashArray"

NEW QUESTION # 56

A cost-conscious customer at a small regional hospital is running a PACS image archive on an NL-disk array.

The customer has the following requirements:

- * More than 1 PB of storage
- * Latency is not a concern
- * Customer user shares must be on the same array

Which solution will meet the customer's needs?

- A. FlashArray//X
- B. FlashArray//XL
- C. **FlashArray//C**

Answer: C

Explanation:

The customer at the small regional hospital requires a storage solution for a PACS image archive with the following requirements:

More than 1 PB of storage

Latency is not a concern

Customer user shares must be on the same array

The best solution to meet these needs is FlashArray//C.

Why This Matters:

FlashArray//C:

FlashArray//C is designed for capacity-optimized workloads, making it ideal for use cases like PACS image archives that require large amounts of storage at a lower cost per GB.

It supports QLC flash technology, which provides high density and cost efficiency for less performance-intensive workloads.

With its ability to scale to over 1 PB of storage, FlashArray//C can meet the customer's capacity requirements while supporting both block and file workloads (e.g., user shares) on the same array using FA File Services.

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 large capacities, it is more expensive and not the most cost-effective solution for latency-insensitive workloads like PACS archives.

B). FlashArray//XL:

FlashArray//XL is designed for extreme-scale workloads requiring massive performance and capacity. It is overkill for this use case and would significantly increase costs without providing proportional benefits.

Key Points:

FlashArray//C: Provides high-density storage at a low cost per GB, ideal for large-scale, latency-insensitive workloads.

Unified Storage: Supports both block and file workloads on the same array, meeting the requirement for user shares.

Cost Efficiency: Balances performance and cost, making it suitable for PACS archives and similar use cases.

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 # 57

What should a protection group in a stretched pod be used for?

- A. Initiating ActiveDR failover/fallback in a test scenario
- B. Configuring fan-out async snapshot replication
- C. **Integrating ActiveCluster with async snapshot replication**
- D. Using CloudSnap to offload to a third-site target

Answer: C

Explanation:

A protection group in a stretched pod should be used for integrating ActiveCluster with asynchronous snapshot replication. This combination allows for synchronous replication within the stretched pod (using ActiveCluster) while also enabling asynchronous replication to a third site for additional disaster recovery protection.

Why This Matters:

ActiveCluster: Provides synchronous replication between two sites within a stretched pod, ensuring zero RPO and near-zero RTO for high availability.

Async Snapshot Replication: Extends the disaster recovery strategy by replicating snapshots asynchronously to a third site, providing an additional layer of protection against regional failures.

Combining these features ensures both local high availability and remote disaster recovery.

Why Not the Other Options?

B). Using CloudSnap to offload to a third-site target:

CloudSnap is used to offload snapshots to cloud storage (e.g., AWS S3 or Azure Blob). While it is useful for backup purposes, it does not integrate with ActiveCluster for synchronous replication.

C). Initiating ActiveDR failover/failback in a test scenario:

ActiveDR is designed for asynchronous replication and failover/failback scenarios but does not integrate with ActiveCluster in a stretched pod configuration.

D). Configuring fan-out async snapshot replication:

Fan-out replication involves sending snapshots to multiple targets asynchronously. However, this does not align with the use case of integrating ActiveCluster with async replication for a stretched pod.

Key Points:

Stretched Pod: Enables synchronous replication across two sites using ActiveCluster. Async Replication: Adds a third-site replication target for comprehensive disaster recovery. Integrated Protection: Combines high availability and disaster recovery into a single solution.

Reference: Pure Storage FlashArray Documentation: "ActiveCluster with Async Replication" Pure Storage Whitepaper: "Disaster Recovery Strategies with FlashArray" Pure Storage Knowledge Base: "Using Protection Groups in Stretched Pods"

NEW QUESTION # 58

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