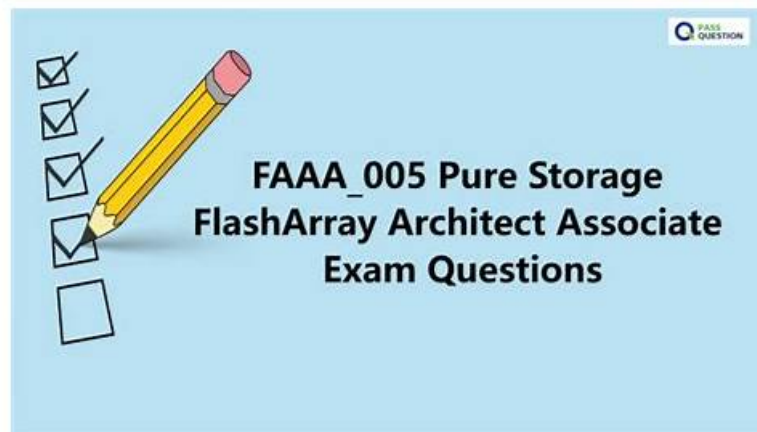


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Pure Storage FlashArray Architect Associate Sample Questions (Q41-Q46):

NEW QUESTION # 41

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

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

Answer: B

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 # 42

A customer has presented two workloads that need to be replicated. One is a highly transactional database workload and the other is a VM datastore with tier one applications.

The customer has the following requirements:

* The database workload is highly reliant on storage performance The VM datastore requires zero downtime.

* The customer has advised the two FlashArrays will be 20 miles apart and they are worried that this could impact their internal SLAs.

What replication strategies should be advised for these workloads?

- A. ActiveDR should be used for both workloads.
- B. ActiveCluster should be used for both workloads.
- C. ActiveDR should be used for the VM workloads and ActiveCluster for the database workload.
- **D. ActiveCluster should be used for the VM workloads and ActiveDR for the database workload.**

Answer: D

Explanation:

To address the customer's requirements, we need to evaluate the replication strategies offered by Pure Storage FlashArray: ActiveCluster and ActiveDR, and how they align with the specific needs of the two workloads.

Workload Analysis:

Transactional Database Workload:

This workload is highly reliant on storage performance. Any replication strategy must ensure minimal latency and high availability to avoid impacting transactional throughput and response times.

The database workload typically benefits from synchronous replication to maintain consistency and performance across sites.

VM Datastore (Tier 1 Applications):

This workload requires zero downtime, meaning it must remain accessible even in the event of a site failure. High availability and seamless failover are critical.

The VM datastore can tolerate some level of asynchronous replication as long as it does not compromise availability or recovery objectives.

Replication Strategies:

ActiveCluster:

ActiveCluster is a synchronous replication solution that provides active-active high availability across two FlashArrays. It ensures zero RPO (Recovery Point Objective) and zero RTO (Recovery Time Objective), making it ideal for workloads requiring continuous availability and zero downtime.

ActiveCluster is well-suited for the VM datastore workload because it guarantees seamless failover and high availability, meeting the zero-downtime requirement.

ActiveDR:

ActiveDR is an asynchronous replication solution designed for disaster recovery scenarios. It provides near-zero RPO (typically seconds to minutes) and allows for non-disruptive testing of failover scenarios.

ActiveDR is better suited for the transactional database workload because it minimizes the impact of latency over the 20-mile distance while still maintaining high performance and consistency.

Distance Consideration:

The 20-mile distance between the two FlashArrays introduces latency concerns. Synchronous replication (ActiveCluster) can handle this distance effectively for the VM datastore workload due to its tolerance for slightly higher latency. However, for the transactional database workload, the latency could degrade performance, making ActiveDR a better choice.

Final Recommendation:

Use ActiveCluster for the VM datastore workload to achieve zero downtime and high availability.

Use ActiveDR for the transactional database workload to balance performance and disaster recovery needs over the 20-mile distance.

Reference: Pure Storage ActiveCluster Documentation:

Explains the synchronous replication capabilities and use cases for ActiveCluster.

Pure Storage ActiveCluster

Pure Storage ActiveDR Documentation:

Details the asynchronous replication features and disaster recovery use cases for ActiveDR.

Pure Storage ActiveDR

Pure Storage Best Practices for Replication:

Provides guidance on selecting the appropriate replication strategy based on workload requirements and distance considerations.

Pure Storage Replication Best Practices

Pure Storage Architectural Guides:

Covers architectural considerations for deploying ActiveCluster and ActiveDR in multi-site environments.

Pure Storage Architectural Guides

This approach ensures that both workloads meet their respective SLAs while addressing the customer's concerns about distance and performance.

NEW QUESTION # 43

What is the minimally required FlashArray model that includes the DirectCompress Accelerator (DCA)?

- A. FlashArray//X90 R4
- B. FlashArray//X70 R3
- C. FlashArray//X70 R4
- D. FlashArray//XL130

Answer: C

Explanation:

The DirectCompress Accelerator (DCA) is a hardware component introduced in certain FlashArray models to enhance inline data compression performance. To determine the minimally required FlashArray model that includes DCA, let's analyze the options:

Analysis of Options:

A). FlashArray//X70 R4:

The FlashArray//X70 R4 was the first model to include the DirectCompress Accelerator (DCA). This makes it the minimally required model for DCA support.

B). FlashArray//X70 R3:

The FlashArray//X70 R3 does not include the DCA. It relies on software-based compression, which is less efficient than hardware-accelerated compression.

C). FlashArray//X90 R4:

The FlashArray//X90 R4 includes DCA but is a higher-tier model than the X70 R4. While it supports DCA, it is not the minimal requirement.

D). FlashArray//XL130:

The FlashArray//XL130 is a high-performance model that includes DCA, but it is overkill for this requirement and not the minimal model.

Recommendation:

The correct answer is

A). FlashArray//X70 R4, as it is the first model to include the DirectCompress Accelerator (DCA).

Reference: FlashArray Hardware Specifications:

FlashArray Models

Details the features and capabilities of each FlashArray model.

DirectCompress Accelerator Overview:

DirectCompress Accelerator
Explains the benefits and availability of DCA.

NEW QUESTION # 44

An admin is setting up replication and has set up a Protection Group.
What are the three choices when adding Members? (Select three.)

- A. Add Snapshots
- B. Add Volumes
- C. Add HBA WWN
- D. Add Hosts
- E. Add Host Groups

Answer: A,B,E

Explanation:

When setting up replication on a Pure Storage FlashArray, an admin creates a Protection Group to define which entities will be replicated to a remote FlashArray. When adding members to a Protection Group, there are three valid choices: Volumes, Snapshots, and Host Groups. Here's a breakdown of each option:

Choices for Adding Members:

Add Volumes:

Volumes are the primary entities that can be added to a Protection Group. Replication ensures that the data within these volumes is copied to the remote FlashArray.

This is the most common use case for replication, especially for protecting critical data such as databases or virtual machine disks.

Add Snapshots:

Snapshots of volumes can also be added to a Protection Group. This allows point-in-time copies of the data to be replicated to the remote array.

Snapshots are useful for disaster recovery scenarios where you need to restore data to a specific point in time.

Add Host Groups:

Host Groups can be added to a Protection Group to replicate all volumes associated with the host group. This simplifies management when multiple volumes are tied to a single application or server.

Replicating Host Groups ensures that all related volumes are protected together, maintaining consistency across the workload.

Incorrect Options:

A). Add Hosts:

Hosts themselves cannot be directly added to a Protection Group. Instead, replication focuses on the data (volumes) or logical groupings (host groups) associated with the hosts.

E). Add HBA WWN:

HBA WWNs (World Wide Names) are identifiers for Fibre Channel adapters and are not relevant to replication or Protection Groups. They are used for zoning and connectivity but do not play a role in defining replication members.

Final Recommendation:

The correct options are

B). Add Volumes ,

C). Add Snapshots, and

D). Add Host Groups, as these are the valid entities that can be added to a Protection Group for replication.

Reference: Pure Storage Protection Groups Documentation:

Pure Storage Protection Groups

Provides detailed guidance on creating and managing Protection Groups.

Pure Storage Replication Best Practices:

Pure Storage Replication Best Practices

Explains how to configure replication for volumes, snapshots, and host groups.

Pure Storage Architectural Guides:

Pure Storage Architectural Guides

Covers architectural considerations for replication and disaster recovery.

NEW QUESTION # 45

A customer is unsatisfied because the level of data reduction on their FlashArray is NOT as high as expected.
What two statements should the SE make to the customer? (Choose two.)

- A. A FlashArray's compression and deduplication will need to be tuned for data subsets.
- **B. FlashArray's deduplication effectiveness will usually increase as the data quantity grows.**
- C. FlashArray data reduction needs to be tuned to increase its effectiveness.
- **D. The Right-Size Guarantee means that the customer can work with their SE if necessary.**

Answer: B,D

Explanation:

If a customer is unsatisfied with the level of data reduction on their FlashArray, the SE should make the following two statements:

FlashArray's deduplication effectiveness will usually increase as the data quantity grows:

Deduplication relies on identifying and eliminating duplicate data blocks. As more data is written to the array, the likelihood of finding duplicates increases, improving the overall deduplication ratio.

Customers should expect better data reduction results over time as their dataset grows.

The Right-Size Guarantee means that the customer can work with their SE if necessary:

Pure Storage's Right-Size Guarantee ensures that customers receive the expected effective capacity based on their workload's data reduction profile. If the actual data reduction does not meet expectations, the customer can collaborate with their SE to address the issue and potentially adjust their subscription or configuration.

Why Not the Other Options?

A). A FlashArray's compression and deduplication will need to be tuned for data subsets:

FlashArray's data reduction techniques (compression and deduplication) are automatic and do not require manual tuning. This statement is misleading.

C). FlashArray data reduction needs to be tuned to increase its effectiveness:

Similar to Option A, FlashArray's data reduction mechanisms are fully automated and do not require manual intervention.

Key Points:

Data Growth: Deduplication effectiveness improves as more data is written to the array.

Right-Size Guarantee: Provides assurance that customers can work with their SE to address data reduction concerns.

Automatic Optimization: FlashArray's data reduction features are self-optimizing and do not require manual tuning.

Reference: Pure Storage FlashArray Documentation: "Understanding Data Reduction and Capacity Planning" Pure Storage

Whitepaper: "Maximizing Data Reduction with FlashArray" Pure Storage Knowledge Base: "Right-Size Guarantee Terms and Conditions"

NEW QUESTION # 46

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