

Pure Storage FAAA_005 Exam Blueprint | Valid FAAA_005 Exam Test



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Pure Storage FlashArray Architect Associate Sample Questions (Q18-Q23):

NEW QUESTION # 18

A customer needs to be able to replicate from on-prem into the public cloud. They want to use the cloud as their DR site with failover and fallback capabilities.

Which Pure Storage feature should the customer use?

- A. Purity//FA CloudSnap periodic offload of snapshots to AWS
- B. ActiveCluster FC replication between a FlashArray on site and Evergreen//One
- C. Snapshot replication to replicate between a FlashArray on site and Cloud Block Store

Answer: C

Explanation:

The customer requires a disaster recovery (DR) solution that allows them to replicate data from their on-premises environment to the public cloud. They also need failover and fallback capabilities, meaning they must be able to switch operations to the cloud during a disaster and revert back to on-premises once the issue is resolved.

Snapshot replication between a FlashArray on-premises and Cloud Block Store (CBS) is the best solution for this use case. CBS

integrates seamlessly with on-premises FlashArrays, enabling efficient replication of snapshots to the cloud. This feature supports failover and fallback operations, ensuring business continuity in the event of a disaster.

Why Not the Other Options?

B). Purity//FA CloudSnap periodic offload of snapshots to AWS: While CloudSnap allows periodic offloading of snapshots to AWS S3 for backup purposes, it does not provide the real-time replication and failover/fallback capabilities required for DR.

C). ActiveCluster FC replication between a FlashArray on site and Evergreen//One: ActiveCluster is designed for synchronous replication between two FlashArrays in different locations, but it does not support replication to the public cloud.

Key Points:

Snapshot Replication: Enables efficient and reliable replication of data between on-premises FlashArrays and Cloud Block Store.

Failover and Fallback: CBS supports these capabilities, ensuring minimal downtime during a disaster.

Integration with FlashArray: CBS is specifically designed to work with FlashArray, providing a seamless DR solution.

Reference: Pure Storage Cloud Block Store Documentation: "Disaster Recovery with Cloud Block Store" Pure Storage Best Practices Guide: "Replication and Failover in Hybrid Cloud Environments" Pure Storage Whitepaper: "Hybrid Cloud Architectures with FlashArray and Cloud Block Store"

NEW QUESTION # 19

What causes a disruption to Pure FlashArray stateless controller operations or performance, if there is a single array?

- A. Upgrade Purity//FA code
- **B. Physically relocating an array**
- C. Moving from a SAS- to NVMe-based shelf
- D. Replacing a controller 10 module

Answer: B

Explanation:

Among the listed options, physically relocating an array is the action most likely to cause a disruption to Pure FlashArray stateless controller operations or performance.

Why This Matters:

Physical Relocation:

Moving a FlashArray involves powering down the system, disconnecting cables, and transporting the hardware to a new location. This process inherently disrupts operations and performance until the array is reinstalled and brought back online.

Even with proper planning, physical relocation introduces downtime and potential risks (e.g., hardware damage during transport).

Why Not the Other Options?

A). Replacing a controller I/O module:

FlashArray controllers are designed with redundancy and hot-swappable components. Replacing an I/O module typically does not cause significant disruptions, as the other controller continues to handle operations.

C). Moving from a SAS- to NVMe-based shelf:

Transitioning to NVMe-based shelves is a planned upgrade that does not inherently disrupt operations. The array can continue functioning during the transition, though performance may vary temporarily.

D). Upgrade Purity//FA code:

Upgrading Purity//FA (the operating system for FlashArray) is a non-disruptive process. FlashArray supports rolling upgrades, ensuring continuous availability and performance during the update.

Key Points:

Physical Relocation: Causes unavoidable downtime and operational disruption.

Redundancy and Non-Disruptive Operations: FlashArray is designed to minimize disruptions for tasks like module replacement and software upgrades.

Planning Required: Physical relocation requires careful planning to minimize risks and downtime.

Reference: Pure Storage FlashArray Documentation: "Maintenance and Relocation Best Practices" Pure Storage Whitepaper: "Non-Disruptive Operations with FlashArray" Pure Storage Knowledge Base: "Minimizing Disruptions During Array Maintenance"

NEW QUESTION # 20

A System Administrator has a FlashArray//X70R3. They need to add a backup element as part of their data protection strategy.

They have the following requirements:

- * The solution should be offsite
- * Cost needs to be kept as low as possible
- * The backup needs to be stored in a different location from their current FlashArray
- * Restore times are not a concern

Which solution should the SE recommend to the System Administrator?

- **A. CloudSnap to a public cloud provider**
- B. ActiveCluster to a FlashArray//C60
- C. ActiveDR to a FlashArray//C60

Answer: A

Explanation:

The System Administrator requires an offsite backup solution that is cost-effective, stores data in a different location from the current FlashArray, and does not prioritize restore times. The best solution to recommend is CloudSnap to a public cloud provider.

Why This Matters:

CloudSnap:

CloudSnap is a feature that offloads snapshots to cloud storage providers like AWS S3 or Azure Blob.

It is highly cost-effective because customers only pay for the cloud storage they use, and it eliminates the need for additional on-premises hardware.

Since restore times are not a concern, CloudSnap's slower restore process compared to on-premises solutions is acceptable.

Why Not the Other Options?

A). ActiveCluster to a FlashArray//C60:

ActiveCluster provides synchronous replication for high availability but does not meet the requirement for an offsite backup solution. Additionally, it is more expensive than CloudSnap.

B). ActiveDR to a FlashArray//C60:

ActiveDR provides asynchronous replication for disaster recovery but requires additional hardware (FlashArray//C60), which increases costs. It is less cost-effective than CloudSnap for backup purposes.

Key Points:

Cost Efficiency: CloudSnap leverages cloud storage, minimizing upfront and ongoing costs. Offsite Storage: Ensures backups are stored in a different location from the primary FlashArray. Restore Times: CloudSnap's slower restore process is acceptable given the customer's requirements.

Reference: Pure Storage FlashArray Documentation: "CloudSnap for Offsite Backups" Pure Storage Whitepaper: "Cost-Effective Backup Strategies with FlashArray" Pure Storage Knowledge Base: "Choosing the Right Backup Solution for Your Workload"

NEW QUESTION # 21

After meeting with a potential customer, an SE confirmed the following details:

- * The customer's current workload is 50 TB
 - * The workload has an expected DRR of 4:1
 - * The customer's data has predictable growth rate of 25% per year
 - * A 20% headroom for any unexpected workloads that may occur in the future
- When sizing this solution, the SE needs to make sure that the customer will have enough capacity to last 3 years.

Which raw capacity will meet these requirements?

- A. 30 TB
- B. 300 TB
- **C. 225 TB**
- D. 56 TB

Answer: C

Explanation:

To determine the raw capacity required to meet the customer's needs for 3 years, we need to account for the current workload, data reduction ratio (DRR), growth rate, and headroom.

Step-by-Step Calculation:

Current Logical Workload:

The customer's current workload is 50 TB.

Expected Growth Over 3 Years:

The workload grows at a predictable rate of 25% per year.

After 3 years, the logical workload will be:

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NEW QUESTION # 22

How does Pure Storage help customers increase storage density in their arrays, as new technology becomes available, without rebuying existing storage?

- A. Customers can mix HDDs and flash modules within the same array.
- B. Customers can leverage Pure Storage's Capacity Consolidation offering.
- C. Customers can attach third-party storage arrays to the Pure Storage array.
- **D. Customers can add a shelf with a Evergreen//One subscription.**

Answer: D

Explanation:

Pure Storage helps customers increase storage density in their arrays as new technology becomes available through its Evergreen//One subscription program. Here's an analysis of the options:

Analysis of Options:

A). Customers can attach third-party storage arrays to the Pure Storage array:

Pure Storage does not support attaching third-party storage arrays directly to its arrays. This is not a valid option.

B). Customers can leverage Pure Storage's Capacity Consolidation offering:

While capacity consolidation is a benefit of Pure Storage arrays, it does not specifically address increasing storage density with new technology.

C). Customers can mix HDDs and flash modules within the same array:

Pure Storage arrays are all-flash and do not support mixing HDDs and flash modules. This is not a valid option.

D). Customers can add a shelf with an Evergreen//One subscription:

With Evergreen//One, customers can non-disruptively add new shelves or upgrade their arrays to take advantage of newer, denser storage technologies without rebuying existing storage. This is the correct answer.

Recommendation:

The correct answer is

D). Customers can add a shelf with an Evergreen//One subscription.

Reference: Evergreen//One Program Overview:

Evergreen//One

Explains the benefits of Evergreen//One, including non-disruptive upgrades and capacity expansion.

FlashArray Expansion Shelves:

FlashArray Expansion Shelves

Details the process of adding shelves to increase storage capacity.

NEW QUESTION # 23

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