

FAAA_005 Latest Test Pdf, Exam FAAA_005 Lab Questions

1. 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. 177 TiB
- B. 46 TiB
- C. 28 TiB
- D. 12 TiB

Answer: A

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:

$$\text{Effective Capacity Required} = \frac{\text{Logical Data Size}}{\text{DRR}}$$

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:

$$\text{Effective Capacity Required} = \frac{46}{3.85} \approx 11.95 \text{ TiB}$$

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

2. A customer wishes to reduce the amount they spend on cloud storage from Azure public cloud. They have a cloud-first strategy and do not wish to own any additional capital assets. The applications data mainly consists of 100 TB of Database data.

Which product satisfies this requirement?

- A. Evergreen//Flex
- B. Evergreen//Forever

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Pure Storage FlashArray Architect Associate Sample Questions (Q40-Q45):

NEW QUESTION # 40

A potential customer has a use case where they need to use a stretched cluster for high availability and also require a third copy of their data in a remote geographic location.

Which replication method should be recommended?

- A. ActiveDR with periodic snapshot replication
- B. Fan-out asynchronous snapshot replication
- C. **ActiveCluster with asynchronous snapshot replication**
- D. CloudSnap to an offload target

Answer: C

Explanation:

The customer requires a storage solution that supports a stretched cluster for high availability and also maintains a third copy of their data in a remote geographic location. The best replication method to recommend is ActiveCluster with asynchronous snapshot replication.

Why This Matters:

ActiveCluster:

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

It is ideal for scenarios where applications require continuous access to data across two locations.

Asynchronous Snapshot Replication:

Asynchronous replication extends the disaster recovery strategy by replicating snapshots to a third site. This ensures an additional layer of protection against regional failures.

Why Not the Other Options?

A). CloudSnap to an offload target:

CloudSnap is used to offload snapshots to cloud storage (e.g., AWS S3 or Azure Blob). While it satisfies the requirement for a third copy, it does not integrate with ActiveCluster for high availability in a stretched cluster.

B). Fan-out asynchronous snapshot replication:

Fan-out replication involves sending snapshots to multiple targets asynchronously. However, it does not provide the synchronous replication required for a stretched cluster.

C). ActiveDR with periodic snapshot replication:

ActiveDR is designed for asynchronous replication and failover/failback scenarios but does not support synchronous replication for a stretched cluster.

Key Points:

ActiveCluster: Ensures high availability with synchronous replication in a stretched cluster.

Async Replication: Adds a third-site replication target for comprehensive disaster recovery.

Integrated Solution: Combines high availability and disaster recovery into a single architecture.

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 # 41

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

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

Answer: D

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 # 42

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. Snapshot replication to replicate between a FlashArray on site and Cloud Block Store
- C. ActiveCluster FC replication between a FlashArray on site and Evergreen//One

Answer: B

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 # 43

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

Answer: B

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 # 44

Refer to the exhibit.



Which FlashArray controller(s) does the exhibit show?

- **A. Top: CT1, Bottom CT2**
- B. Top: CTO, Bottom: CT1
- C. Top: Primary, Bottom: Secondary

Answer: A

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 # 45

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