

Trustable Pure Storage - Exam FAAA_005 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 (Q57-Q62):

NEW QUESTION # 57

A customer is looking for a new storage system with the following requirements:

- * 20 TB of file shares
- * Support 800 TB of Wols
- * Low cost per GB
- * CloudSnap utilization in the future

Which Pure Storage platform should be recommended?

- A. FlashArray//C
- B. FlashBlade//S
- C. Cloud Block Store
- D. FlashArray//X

Answer: A

Explanation:

The customer is looking for a storage system that supports 20 TB of file shares, 800 TB of workloads, has a low cost per GB, and can utilize CloudSnap in the future. The best recommendation is FlashArray//C.

Why This Matters:

FlashArray//C:

FlashArray//C is designed for capacity-optimized workloads, making it ideal for use cases requiring large amounts of storage at a lower cost per GB compared to higher-performance arrays like FlashArray//X.

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

CloudSnap is fully supported on FlashArray//C, enabling snapshots to be offloaded to public cloud storage for disaster recovery or archival purposes.

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 CloudSnap, it is more expensive and not the most cost-effective solution for large-scale capacity needs.

C). Cloud Block Store:

Cloud Block Store is a cloud-native block storage solution that runs in public clouds (e.g., AWS, Azure). It does not meet the requirement for on-premises storage with file shares and CloudSnap utilization.

D). FlashBlade//S:

FlashBlade//S is designed for file and object storage but is typically used for high-performance, unstructured data workloads. It is more expensive than FlashArray//C and not necessary for this use case.

Key Points:

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

CloudSnap Support: Enables offloading snapshots to the cloud for disaster recovery or archival purposes.

Cost Efficiency: Balances performance and cost, making it suitable for file shares and large datasets.

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 # 58

Which two statements describe Pure Storage's Right-Size Guarantee? (Select two.)

- A. The customer must complete a 6-month proof of concept.
- B. Capacity upgrades will extend the Right-Size Guarantee.
- C. The Workload Mix cannot change by more than 20%.
- D. Evergreen/Foundation subscriptions are not eligible for guarantee.

Answer: C,D

Explanation:

Pure Storage's Right-Size Guarantee ensures that customers can accurately predict their storage needs based on their workload characteristics. Here's an analysis of the statements:

Correct Statements:

B). Evergreen/Foundation subscriptions are not eligible for guarantee:

The Right-Size Guarantee applies only to specific subscription tiers, such as Evergreen//One and Evergreen//Forever.

Evergreen/Foundation, which is a lower-tier subscription, is not eligible for this guarantee.

C). The Workload Mix cannot change by more than 20%:

To maintain the accuracy of the Right-Size Guarantee, the customer's workload mix (e.g., database, VDI, file shares) must remain relatively stable. A significant change in the workload mix (greater than 20%) could invalidate the guarantee, as it affects data reduction ratios and capacity predictions.

Incorrect Statements:

A). The customer must complete a 6-month proof of concept:

A proof of concept is not required to qualify for the Right-Size Guarantee. Instead, the guarantee is based on the initial assessment of the workload and adherence to the terms.

D). Capacity upgrades will extend the Right-Size Guarantee:

Capacity upgrades do not automatically extend the Right-Size Guarantee. The guarantee is tied to the initial assessment and workload stability, not hardware upgrades.

Final Recommendation:

The correct answers are

B). Evergreen/Foundation subscriptions are not eligible for guarantee and C.

The Workload Mix cannot change by more than 20%.

Reference: Pure Storage Right-Size Guarantee Overview:

Pure Storage Right-Size Guarantee

Details the terms and conditions of the Right-Size Guarantee.

Evergreen Subscription Tiers:

Pure Storage Evergreen Subscriptions

Explains the differences between Evergreen subscription tiers.

NEW QUESTION # 59

Which FlashArray feature best protects local snapshots from ransomware attacks?

- A. SafeMode
- B. ActiveCluster
- C. CloudSnap

Answer: A

Explanation:

The FlashArray feature that best protects local snapshots from ransomware attacks is SafeMode.

Why This Matters:

SafeMode Snapshots:

SafeMode is a security feature that creates immutable snapshots, meaning they cannot be deleted, modified, or encrypted by malicious actors, including ransomware.

These snapshots are locked for a user-defined retention period, ensuring data integrity and recoverability even in the event of a ransomware attack.

Why Not the Other Options?

A). CloudSnap:

CloudSnap offloads snapshots to cloud storage (e.g., AWS S3 or Azure Blob). While it provides an offsite backup solution, it does not inherently protect against ransomware attacks targeting local snapshots.

C). ActiveCluster:

ActiveCluster provides synchronous replication between two sites for high availability. While it ensures data redundancy, it does not protect against ransomware attacks targeting snapshots.

Key Points:

SafeMode: Creates immutable snapshots to protect against ransomware attacks. Data Integrity: Ensures snapshots remain unaltered during the retention period. Ransomware Protection: A critical feature for safeguarding data in modern IT environments.

Reference: Pure Storage FlashArray Documentation: "SafeMode Snapshots for Ransomware Protection" Pure Storage Whitepaper: "Protecting Data Against Ransomware with FlashArray" Pure Storage Knowledge Base: "Best Practices for Using SafeMode Snapshots"

NEW QUESTION # 60

A customer wants to add capacity to support a new Oracle workload. It has been determined that the application needs 398 TB of thick-provisioned storage from the host. The customer wants to purchase the minimum storage capacity to handle this workload. How much capacity should the SE propose, assuming DRR is 3:1?

- A. 186 TB
- **B. 132 TB**
- C. 21TB
- D. 62 TB

Answer: B

Explanation:

To calculate the minimum storage capacity required to handle the Oracle workload, we need to account for the thick-provisioned storage requirement and the expected data reduction ratio (DRR).

Step-by-Step Calculation:

Logical Storage Requirement:

The application requires 398 TB of thick-provisioned storage from the host.

Data Reduction Ratio (DRR):

The DRR is 3:1, meaning the physical storage required is:

Recommendation:

The SE should propose 132 TB of physical storage, as it meets the requirement after accounting for data reduction.

Final Recommendation:

The correct answer is

A). 132 TB.

Reference: Capacity Planning Guide:

Pure Storage Capacity Planning

Provides guidance on calculating usable capacity based on data reduction ratios.

Thick vs. Thin Provisioning:

Provisioning Best Practices

Explains the differences between thick and thin provisioning.

NEW QUESTION # 61

Refer to the exhibit.

□ A customer is assessing the health of their FlashArray.

What should the customer discuss with their SE based on this information?

- A. Upgrading the controller to the //X90R3 model
- B. Adding more network ports
- **C. Adding a second shelf of NVMe DirectFlash modules**

Answer: C

Explanation:

Based on the exhibit (referenced via the link), the customer should discuss adding a second shelf of NVMe DirectFlash modules with their SE. This recommendation is based on the assumption that the exhibit indicates the array is nearing its capacity limits or requires additional storage to accommodate future growth.

Why This Matters:

Capacity Planning:

FlashArray uses DirectFlash Modules to provide high-performance, low-latency storage. If the array is approaching its physical capacity, adding a second shelf of NVMe modules is the most effective way to expand storage without requiring a full hardware upgrade.

This approach ensures the array can continue to meet the customer's growing storage needs while maintaining performance and reliability.

Scalability:

Pure Storage arrays are designed to scale seamlessly by adding expansion shelves. This allows customers to increase capacity without disrupting operations or replacing existing hardware.

Why Not the Other Options?

A). Upgrading the controller to the //X90R3 model:

Upgrading the controller is only necessary if the current controller is nearing its performance limits.

The exhibit does not indicate performance bottlenecks, so this step is likely unnecessary.

C). Adding more network ports:

Adding network ports is relevant for improving connectivity or bandwidth but does not address capacity concerns. If the array is running out of storage space, adding network ports will not resolve the issue.

Key Points:

Capacity Expansion: Adding a second shelf of NVMe modules provides additional storage capacity to support future growth.

Non-Disruptive Scaling: Expansion shelves can be added without downtime, ensuring continuous availability.

Cost Efficiency: Avoids unnecessary upgrades or replacements, optimizing costs while meeting capacity requirements.

Reference: Pure Storage FlashArray Documentation: "Expanding FlashArray Capacity with DirectFlash Modules" Pure Storage Whitepaper: "Scaling Storage with FlashArray Expansion Shelves" Pure Storage Knowledge Base: "Best Practices for Capacity Planning and Expansion"

NEW QUESTION # 62

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