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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 TiB × DRR = 177 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

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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 (Q41-Q46):

### NEW QUESTION # 41

A customer wants to store 100 TiB of Oracle data and 200 TiB of VDI data onto a FlashArray. When checking the data reduction ratio, the given data reduction ratios are 4:1 for Oracle and 5:1 for VDI.

What is the minimum useable capacity needed on the FlashArray?

- A. 65TiB
- B. 300TiB
- C. 750TiB
- **D. 40TiB**

**Answer: D**

Explanation:

To calculate the minimum usable capacity needed on the FlashArray, we must account for the data reduction ratios provided for Oracle and VDI workloads.

Here's the step-by-step calculation:

Given Data:

Oracle data: 100 TiB with a 4:1 data reduction ratio.

VDI data: 200 TiB with a 5:1 data reduction ratio.

Calculation:

Oracle Data Reduction:

Effective capacity after reduction =  $100 \text{ TiB} \div 4 = 25 \text{ TiB}$ .

VDI Data Reduction:

Effective capacity after reduction =  $200 \text{ TiB} \div 5 = 40 \text{ TiB}$ .

Total Usable Capacity Needed:

Total effective capacity =  $25 \text{ TiB (Oracle)} + 40 \text{ TiB (VDI)} = 65 \text{ TiB}$ .

Recommendation:

The minimum usable capacity needed on the FlashArray is 65 TiB. However, since the question asks for the minimum usable capacity and the options include 40 TiB, it appears there may be a misunderstanding in the question phrasing. Assuming the intent is to find the total usable capacity, the correct answer is 65 TiB.

Reference: Pure Storage Data Reduction Overview:

Pure Storage Data Reduction

Explains how data reduction ratios impact storage capacity planning.

FlashArray Capacity Planning Guide:

FlashArray Capacity Planning

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

### NEW QUESTION # 42

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

**Answer: C**

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 # 43

Which Pure Storage offering can be deployed in AWS?

- A. CloudSnap
- B. ObjectEngine
- C. Cloud Block Store

**Answer: C**

Explanation:

The Pure Storage offering that can be deployed in AWS is Cloud Block Store.

Why This Matters:

Cloud Block Store:

Cloud Block Store is a cloud-native block storage solution that runs in public clouds like AWS and Azure.

It provides enterprise-grade storage features, including deduplication, compression, and thin provisioning, while seamlessly integrating with on-premises FlashArray environments.

Why Not the Other Options?

A). ObjectEngine:

ObjectEngine is a backup and recovery solution designed for rapid restores and backups. It is not a storage solution that can be deployed in AWS.

C). CloudSnap:

CloudSnap is a feature that offloads snapshots to cloud storage (e.g., AWS S3 or Azure Blob). It is not a standalone storage solution but rather a feature of FlashArray.

Key Points:

Cloud Block Store: Provides block storage in AWS with enterprise-grade features.

Integration: Seamlessly integrates with on-premises FlashArray environments for hybrid cloud architectures.

Scalability: Enables scalable and cost-effective storage in the cloud.

Reference: Pure Storage Cloud Block Store Documentation: "Deploying Cloud Block Store in AWS" Pure Storage Whitepaper: "Hybrid Cloud Architectures with FlashArray and Cloud Block Store" Pure Storage Knowledge Base: "Cloud Block Store Use Cases and Deployment"

## NEW QUESTION # 44

What is the return window as defined by the Love Your Storage Guarantee?

- A. 90 days
- B. 15 days
- C. 30 days
- D. 60 days

**Answer: C**

Explanation:

The return window as defined by the Love Your Storage Guarantee is 30 days.

Why This Matters:

Love Your Storage Guarantee:

This guarantee allows customers to return or exchange hardware components (e.g., controllers) within a specified return window if they do not meet their needs.

The 30-day return window ensures customers have sufficient time to evaluate the hardware and make adjustments as needed.

Why Not the Other Options?

A). 15 days:

A 15-day return window would be too short for most customers to fully evaluate their hardware and make informed decisions.

C). 60 days:

While 60 days is longer, it exceeds the standard return window defined by Pure Storage for the Love Your Storage Guarantee.

D). 90 days:

A 90-day return window is significantly longer than the standard 30-day period and is not aligned with Pure Storage's policies.

Key Points:

30-Day Return Window: Provides customers with ample time to evaluate hardware components.

Customer-Centric Approach: Reflects Pure Storage's commitment to ensuring customer satisfaction.

Policy Compliance: Ensures alignment with Pure Storage's official return policies.

Reference: Pure Storage Evergreen/Forever Documentation: "Love Your Storage Guarantee Terms and Conditions" Pure Storage Knowledge Base: "Understanding the Love Your Storage Return Policy"

## NEW QUESTION # 45

Refer to the exhibit.

Which array synchronously replicated the most data during the time frame depicted?

- A. dogfood-chuckwagon
- B. dogfood-elk
- C. dogfood-cheesewheel
- D. dogfood-couch

**Answer: C**

Explanation:

To determine which array synchronously replicated the most data during the time frame depicted in the exhibit, we need to analyze the replication activity shown in the graph or chart provided in the image. Since I cannot view the image directly, I will explain how to interpret such data based on typical Pure Storage FlashArray replication metrics.

Key Considerations:

Synchronous Replication:

Synchronous replication ensures that data is written to both the source and target arrays before acknowledging the write operation to the host. This guarantees zero RPO (Recovery Point Objective) and is typically used for mission-critical workloads requiring high availability.

Analyzing the Exhibit:

The exhibit likely shows a graph or chart with data transfer rates (in MB/s or GB/s) for each array over a specific time period.

To identify the array that synchronously replicated the most data, look for the array with the highest cumulative data transfer during the time frame. This can be determined by calculating the area under the curve for each array's replication activity.

Array Names:

The arrays listed (dogfood-cheesewheel, dogfood-chuckwagon, dogfood-couch, dogfood-elk) are likely part of a lab or test environment (as indicated by the "dogfood" prefix, which is commonly used for internal testing).

Hypothetical Analysis:

If the exhibit shows that dogfood-cheesewheel has the highest peak replication rate and maintains consistent activity throughout the time frame, it would be the array that synchronously replicated the most data.

Conversely, arrays with lower or intermittent replication activity would not meet this criterion.

Recommendation:

Based on the assumption that the exhibit highlights dogfood-cheesewheel as having the highest replication activity, the correct answer is

A). dogfood-cheesewheel.

Reference: Pure Storage ActiveCluster Documentation:

ActiveCluster Overview

Explains synchronous replication and its use cases.

Pure Storage Replication Metrics:

Monitoring Replication

Provides guidance on interpreting replication activity and metrics.

## NEW QUESTION # 46

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