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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  $46 \text{ TiB} \times \text{DRR} = 177 \text{ TiB}$ .

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 (Q14-Q19):

### NEW QUESTION # 14

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

### Answer: D

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 # 15

What should a protection group in a stretched pod be used for?

- A. Integrating ActiveCluster with async snapshot replication
- B. Initiating ActiveDR failover/failback in a test scenario
- C. Using CloudSnap to offload to a third-site target
- D. Configuring fan-out async snapshot replication

### Answer: A

Explanation:

A protection group in a stretched pod should be used for integrating ActiveCluster with asynchronous snapshot replication. This combination allows for synchronous replication within the stretched pod (using ActiveCluster) while also enabling asynchronous replication to a third site for additional disaster recovery protection.

Why This Matters:

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

Async Snapshot Replication: Extends the disaster recovery strategy by replicating snapshots asynchronously to a third site, providing an additional layer of protection against regional failures.

Combining these features ensures both local high availability and remote disaster recovery.

Why Not the Other Options?

B). Using CloudSnap to offload to a third-site target:

CloudSnap is used to offload snapshots to cloud storage (e.g., AWS S3 or Azure Blob). While it is useful for backup purposes, it does not integrate with ActiveCluster for synchronous replication.

C). Initiating ActiveDR failover/failback in a test scenario:

ActiveDR is designed for asynchronous replication and failover/failback scenarios but does not integrate with ActiveCluster in a stretched pod configuration.

D). Configuring fan-out async snapshot replication:

Fan-out replication involves sending snapshots to multiple targets asynchronously. However, this does not align with the use case of integrating ActiveCluster with async replication for a stretched pod.

Key Points:

Stretched Pod: Enables synchronous replication across two sites using ActiveCluster. Async Replication: Adds a third-site replication target for comprehensive disaster recovery. Integrated Protection: Combines high availability and disaster recovery into a single solution.

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 # 16

Which Pure Storage offering allows customers to own their array hardware while paying for storage on a subscription basis?

- A. Evergreen/Foundation
- B. Cloud Block Store
- **C. Evergreen/Flex**
- D. Evergreen/One

**Answer: C**

Explanation:

The Evergreen/Flex offering allows customers to own their array hardware while paying for storage on a subscription basis.

Why This Matters:

Evergreen/Flex:

This model combines the benefits of ownership with the flexibility of a subscription. Customers own the hardware outright but pay for storage capacity and services (e.g., maintenance, upgrades) on a subscription basis.

It provides predictable costs and access to Pure Storage's Evergreen architecture, ensuring long-term value and future-proofing.

Why Not the Other Options?

A). Evergreen/Foundation:

Evergreen/Foundation is a traditional purchase model where customers buy the hardware and software upfront. It does not involve a subscription-based payment structure.

B). Evergreen/One:

Evergreen/One is a fully managed subscription service where customers do not own the hardware.

Instead, they lease the equipment and pay for storage as a service.

D). 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 involve owning on-premises hardware.

Key Points:

Ownership: Customers retain ownership of the hardware.

Subscription Flexibility: Pay for storage and services on a subscription basis.

Predictable Costs: Aligns with budgeting and financial planning goals.

Reference: Pure Storage Evergreen/Forever Documentation: "Understanding Evergreen/Flex" Pure Storage Whitepaper: "Maximizing Value with Evergreen Subscriptions" Pure Storage Knowledge Base: "How Evergreen/Flex Works"

## NEW QUESTION # 17

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. 750TiB
- C. 300TiB

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

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 # 18

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 Hosts
- B. Add Host Groups
- C. AddHBAWWN
- D. Add Volumes
- E. Add Snapshots

**Answer: B,D,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 # 19

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