# Pass Guaranteed Pure Storage - Accurate FAAA_005 Study Guide

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

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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# FAAA_005 Study Guide | Latest Pure Storage FlashArray Architect Associate 100% Free Practice Exams Free

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# Pure Storage FlashArray Architect Associate Sample Questions (Q49-Q54):

## NEW QUESTION # 49
What is the fastest way to duplicate volume data for a test/dev environment?

- A. Restore from a volume snapshot
- B. Make a volume copy
- C. Mount the snapshot to a development host
- D. Use a backup copy

**Answer: C**

Explanation:
The fastest way to duplicate volume data for a test/dev environment is to mount the snapshot to a development host. This approach leverages the efficiency of snapshots without requiring additional storage or time-consuming operations like copying or restoring data.
Why This Matters:
Snapshots:
Snapshots are space-efficient, point-in-time copies of a volume that do not consume additional storage until changes are made to the original data.
Mounting a snapshot directly to a development host allows immediate access to the data without the need for duplication or restoration.
Speed and Efficiency:
Mounting a snapshot is significantly faster than creating a full copy or restoring from a backup, as it avoids the overhead of data movement or replication.
Why Not the Other Options?
A). Use a backup copy:
Restoring data from a backup is time-consuming and requires additional storage. It is not the fastest method for duplicating data.
B). Make a volume copy:
Creating a full volume copy consumes additional storage and takes longer than mounting a snapshot.
C). Restore from a volume snapshot:
Restoring from a snapshot involves writing data back to the original volume, which is slower than simply mounting the snapshot for read-only or writable access.
Key Points:
Snapshots: Provide fast, space-efficient access to data for test/dev environments.
Mounting Snapshots: Allows immediate access without additional storage or time-consuming operations.
Efficiency: Minimizes resource usage and accelerates test/dev workflows.
Reference: Pure Storage FlashArray Documentation: "Using Snapshots for Test/Dev Environments" Pure Storage Whitepaper: "Best Practices for Managing Test/Dev Workloads" Pure Storage Knowledge Base: "Mounting Snapshots to Hosts"

## NEW QUESTION # 50
Which two public cloud storage services are supported as offload targets for Purity CloudSnap? (Choose two.)

- A. Amazon AWS EBS
- B. Amazon AWS S3
- C. Azure Blob Storage
- D. IBM Object Storage

**Answer: B,C**

Explanation:
Purity CloudSnap is a feature of Pure Storage FlashArray that enables customers to offload snapshots to public cloud storage for long-term retention or disaster recovery purposes. To determine which public cloud storage services are supported as offload targets, let's analyze the options:
Analysis of Options:

A). Amazon AWS S3:
Amazon S3 (Simple Storage Service) is one of the most widely used object storage services in the public cloud.
Purity CloudSnap supports AWS S3 as an offload target, making it a valid choice.
B). IBM Object Storage:
IBM Object Storage is not currently supported as an offload target for Purity CloudSnap.
Pure Storage focuses on integration with major cloud providers like AWS and Azure.
C). Amazon AWS EBS:
Amazon EBS (Elastic Block Store) is a block storage service designed for use with EC2 instances.
However, CloudSnap does not support AWS EBS as an offload target because it is intended for object storage services like S3.
D). Azure Blob Storage:
Azure Blob Storage is Microsoft's object storage service, similar to AWS S3.
Purity CloudSnap supports Azure Blob Storage as an offload target, making it a valid choice.
Recommendation:
The correct answers are
A). Amazon AWS S3 and
D). Azure Blob Storage, as these are the supported public cloud storage services for CloudSnap.
Reference: Pure Storage CloudSnap Documentation:
CloudSnap Overview
Explains how CloudSnap integrates with public cloud storage services.
Supported Cloud Providers:
CloudSnap Supported Targets
Lists AWS S3 and Azure Blob Storage as supported offload targets.

## NEW QUESTION # 51
Refer to the exhibit.
Which VM is running on the ESXi host with the lowest write latency?

- A. C14-s108-wll
- B. c14-d51-wl2
- C. c14-s102-wll
- D. c14-s145-wll

**Answer: B**

Explanation:
Write Latency:
Write latency refers to the time it takes for a write operation to complete on the storage array. Lower write latency indicates better performance and faster response times for write-intensive workloads.
In Pure Storage arrays, write latency is typically measured in milliseconds (ms) and can be monitored using tools like Pure1 or Purity//FA performance metrics.
VM-to-Host Mapping:
Each VM runs on an ESXi host, and the write latency of the VM is influenced by the storage performance characteristics of the host it resides on.
To identify the VM with the lowest write latency, we must compare the write latency values for each VM listed in the exhibit.

## NEW QUESTION # 52
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. 225 TB
- B. 30 TB
- C. 56 TB
- D. 300 TB

**Answer: A**

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 # 53**
A customer is reviewing their disaster recovery strategy and want to replicate their data to a secondary datacenter. They have stated that they have internal SLAs around RPO and RTO that they are not currently meeting.
Which two FlashArray features should the SE focus on? (Choose two.)

- A. CloudSnap
- B. ActiveDR
- C. ActiveCluster
- D. FlashRecover

**Answer: B,D**

Explanation:
The customer is reviewing their disaster recovery (DR) strategy and wants to replicate data to a secondary datacenter while addressing internal SLAs for RPO (Recovery Point Objective) and RTO (Recovery Time Objective). To meet these requirements, the SE should focus on two key Pure Storage FlashArray features: FlashRecover and ActiveDR.
Why These Features?
FlashRecover:
FlashRecover is a snapshot-based replication feature that allows efficient point-in-time copies of data to be replicated to a secondary site.
It helps achieve low RPOs by enabling frequent snapshots and replication to the DR site. This ensures minimal data loss in the event of a failure. ActiveDR:
ActiveDR is a disaster recovery solution that provides asynchronous replication between two FlashArrays.
It is specifically designed to minimize RTO by enabling fast failover and failback capabilities.
ActiveDR ensures that the secondary site is always ready to take over with minimal downtime, meeting strict RTO requirements.
Why Not the Other Options?
B). ActiveCluster:
ActiveCluster is a synchronous replication solution for high availability across two sites. While it provides zero RPO and near-zero RTO, it requires both sites to be within synchronous distance (typically <10ms latency). Since the customer is replicating to a secondary datacenter (likely farther away), ActiveCluster is not suitable.
C). CloudSnap:
CloudSnap is a feature that offloads snapshots to cloud storage (e.g., AWS S3 or Azure Blob). While it is useful for backup and archival purposes, it does not provide the real-time replication and failover capabilities needed for DR with strict RPO and RTO SLAs.
Key Points:
FlashRecover: Enables efficient replication with low RPOs through snapshot-based replication.
ActiveDR: Provides asynchronous replication with fast failover and failback capabilities to meet RTO requirements.
SLA Alignment: Both features are designed to help customers meet their internal SLAs for RPO and RTO.
Reference: Pure Storage FlashArray Documentation: "Disaster Recovery with FlashRecover and ActiveDR" Pure Storage Whitepaper: "Meeting RPO and RTO Requirements with FlashArray" Pure Storage Knowledge Base: "Best Practices for Disaster Recovery Planning"

**NEW QUESTION # 54**
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