

Pure Storage FAAA_005 Real Exam Answers, FAAA_005 Exam Study Guide

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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 (Q57-Q62):

NEW QUESTION # 57

Refer to the exhibit.

Which VM is running on the ESXi host with the lowest write latency?

- A. c14-s145-w1
- B. c14-s102-w11
- C. C14-s108-w11
- D. **c14-d51-w12**

Answer: D

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 # 58

Refer to the exhibit.

What does the depicted value 77.24 T represent?

- A. Total raw space on the array
- B. Total deduplicated space
- C. Total useable space
- D. **The guaranteed capacity**

Answer: D

Explanation:

The value 77.24 T in the context of Pure Storage FlashArray represents C. The guaranteed capacity.

Detailed Explanation

Guaranteed Capacity is a feature of Pure Storage's Evergreen subscription model. It reflects the effective capacity Pure Storage commits to the customer based on their typical data reduction ratios (deduplication, compression, and pattern removal). This value is calculated as:

Guaranteed Capacity=Physical Raw Capacity×Data Reduction Factor (DRF)
Guaranteed Capacity=Physical Raw Capacity×Data Reduction Factor (DRF)
Pure typically guarantees a minimum DRF (e.g., 3:1 for many workloads), but actual savings often exceed this.

Why Not the Other Options?

A). Total usable space: This would include the total logical capacity after data reduction and overheads (RAID-HD, metadata), which is usually larger than the guaranteed capacity.

B). Total raw space: This refers to the physical capacity of drives (e.g., 100TB raw). The value shown (77.24T) is smaller than raw, so this is incorrect.

D). Total deduplicated space: Pure Storage combines dedupe, compression, and pattern removal into a single "data reduction" metric. Deduplication alone is not isolated in capacity reporting.

Official

Reference: Pure Storage documentation explicitly defines Guaranteed Capacity as the "logical capacity Pure commits to deliver, factoring in data reduction." This aligns with the Evergreen/Forever subscription model, where customers pay for usable capacity, not raw storage.

NEW QUESTION # 59

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

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

Answer: A,D

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 # 60

An admin is setting up replication and has set up a Protection Group.

What are the three choices when adding Members? (Select three.)

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

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 # 61

A customer currently has a FlashArray//X for their block storage with 40 TB of available storage. They need 10 TB of file workloads and want to spend the least amount possible on infrastructure.

What should the SE recommend?

- A. NDU the FlashArray//X to a //XL and run both workloads there
- B. Add another disk pool for file storage to their current FlashArray
- C. Purchase an entry level FlashBlade for the file workload
- D. **Run both workloads on the current FlashArray**

Answer: D

Explanation:

The customer currently has a FlashArray//X with 40 TB of available block storage and needs to add 10 TB of file workloads while minimizing infrastructure costs. Let's analyze the options:

Analysis of Options:

A). Run both workloads on the current FlashArray:

Pure Storage FlashArray supports both block and file workloads using the Purity File Services feature, which allows customers to run file workloads directly on their FlashArray.

Since the FlashArray already has 40 TB of available storage, adding 10 TB of file workloads is feasible without requiring additional hardware. This is the most cost-effective solution.

B). Add another disk pool for file storage to their current FlashArray:

Adding a separate disk pool for file storage is unnecessary because Purity File Services can handle both block and file workloads on the same array.

C). Purchase an entry-level FlashBlade for the file workload:

While FlashBlade is designed for file and object workloads, purchasing a new FlashBlade would be significantly more expensive than leveraging the existing FlashArray. This option does not align with the customer's goal of minimizing costs.

D). NDU the FlashArray//X to a //XL and run both workloads there:

Upgrading the FlashArray//X to a FlashArray//XL via a Non-Disruptive Upgrade (NDU) is unnecessary for this use case. The current FlashArray//X has sufficient capacity to handle both workloads, and upgrading to a higher-tier array would increase costs unnecessarily.

Recommendation:

The most cost-effective solution is

A). Run both workloads on the current FlashArray, leveraging Purity File Services to support the file workload.

Reference: Purity File Services Documentation:

Purity File Services

Explains how to configure and use file services on FlashArray.

FlashArray Use Cases:

FlashArray Use Cases

Highlights the versatility of FlashArray for both block and file workloads.

NEW QUESTION # 62

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