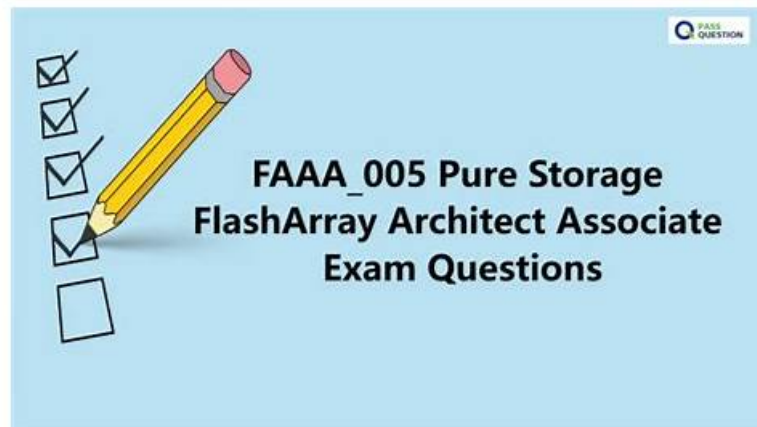


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Pure Storage FlashArray Architect Associate Sample Questions (Q50-Q55):

NEW QUESTION # 50

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

Answer: A

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 # 51

Which Evergreen/Forever benefit allows a customer to trade in an existing 12 TB shelf for a new 60 TB shelf while only paying for a 48 TB increase?

- A. Capacity Consolidation
- B. Love Your Storage
- C. Flat is Fair Maintenance
- **D. Right-Size Guarantee**

Answer: D

Explanation:

The Right-Size Guarantee is an Evergreen/Forever benefit that allows customers to trade in existing storage shelves for newer, higher-capacity shelves while only paying for the incremental capacity increase. In this scenario, the customer can trade in a 12 TB shelf for a 60 TB shelf and only pay for the additional 48 TB of capacity.

Why This Matters:

The Right-Size Guarantee ensures that customers can upgrade their storage infrastructure without overpaying for capacity they already own. This aligns with Pure Storage's commitment to providing flexible and cost-effective storage solutions.

By leveraging this benefit, the customer can modernize their storage environment while optimizing costs.

Why Not the Other Options?

A). Capacity Consolidation:

Capacity Consolidation refers to the ability to consolidate workloads onto fewer arrays or shelves, but it does not specifically address trading in existing shelves for higher-capacity ones at a reduced cost.

B). Flat is Fair Maintenance:

Flat is Fair Maintenance ensures predictable and consistent maintenance pricing over time, but it does not apply to upgrading or trading in storage shelves.

D). Love Your Storage:

Love Your Storage is a program that provides hardware upgrades and enhancements, but it does not directly relate to trading in shelves for capacity increases.

Key Points:

Right-Size Guarantee: Allows customers to trade in existing shelves for higher-capacity shelves at a reduced cost.

Cost Optimization: Ensures customers only pay for the incremental capacity increase, reducing total cost of ownership (TCO).

Evergreen Benefits: Part of Pure Storage's commitment to delivering flexible and future-proof storage solutions.

Reference: Pure Storage Evergreen/Forever Documentation: "Understanding the Right-Size Guarantee" Pure Storage Whitepaper: "Evergreen Architecture and Subscription Benefits" Pure Storage Knowledge Base: "How to Leverage the Right-Size Guarantee"

NEW QUESTION # 52

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

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

Answer: A,B

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 # 53

Which FlashArray feature best protects local snapshots from ransomware attacks?

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

Answer: C

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 # 54

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

Answer: A,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 # 55

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