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Exam : **FAAA_005**

Title : Pure Storage FlashArray
Architect Associate

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Pure Storage FlashArray Architect Associate Sample Questions (Q22-Q27):

NEW QUESTION # 22

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

Answer: C

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 # 23

A potential healthcare customer wants to move to a modern storage array for their medical records database. They need the fastest possible array as their workload is highly transactional.

Which solution should an SE recommend?

- A. FlashArray//C
- B. FlashArray//XL
- C. FlashArray//X

Answer: B

Explanation:

To meet the healthcare customer's requirement for the fastest possible array for a highly transactional medical records database, FlashArray//XL is the optimal choice.

Here's why:

Analysis of FlashArray Models:

FlashArray//XL:

The FlashArray//XL is Pure Storage's highest-performance all-flash storage array, designed for mission-critical, high-transaction

workloads that demand ultra-low latency and maximum throughput.

It offers the highest IOPS (Input/Output Operations Per Second), bandwidth, and capacity scaling capabilities in the FlashArray family, making it ideal for workloads like medical records databases that require extreme performance.

With its advanced NVMe architecture and DirectFlash Modules, FlashArray//XL delivers sub-millisecond latency and exceptional performance consistency, which are critical for transactional workloads.

FlashArray//X:

The FlashArray//X is a high-performance all-flash array but is positioned below the FlashArray//XL in terms of raw performance and scalability.

While it is suitable for most enterprise workloads, it may not provide the same level of performance as FlashArray//XL for highly transactional databases with demanding I/O requirements.

FlashArray//C:

The FlashArray//C is optimized for capacity and cost efficiency rather than raw performance.

It uses QLC NAND flash technology, which is more cost-effective but has lower endurance and performance compared to the TLC NAND used in FlashArray//X and FlashArray//XL.

This makes FlashArray//C unsuitable for highly transactional workloads like a medical records database.

Recommendation:

Given the customer's need for the "fastest possible array" and the highly transactional nature of their workload, FlashArray//XL is the best recommendation. Its ability to deliver consistent, low-latency performance at scale ensures that the medical records database will perform optimally under heavy transactional loads.

Reference: FlashArray//XL Product Overview:

Pure Storage FlashArray//XL

Details the performance and use cases for FlashArray//XL.

FlashArray//X Product Overview:

Pure Storage FlashArray//X

Explains the capabilities of FlashArray//X for enterprise workloads.

FlashArray//C Product Overview:

Pure Storage FlashArray//C

Highlights the cost-efficient design of FlashArray//C for capacity-focused workloads.

NEW QUESTION # 24

A customer wants to have more insight into and control of their Pure Storage FlashArray and VMware environment from a single user interface.

What does the customer need to do to enable this capability in their environment?

- A. Ensure all VMware API for Array Integration (VAAI) primitives are enabled
- B. Install Pure Storage SRA for VMware Site Recovery Manager (SRM)
- C. Log in to the FlashArray GUI and install the plugin for vSphere Client
- **D. Configure FlashArray Management Pack for vRealize Operations Manager**

Answer: D

Explanation:

To gain more insight and control over their Pure Storage FlashArray and VMware environment from a single user interface, the customer should configure the FlashArray Management Pack for vRealize Operations Manager (vROps).

Here's why:

Analysis of Options:

A). Ensure all VMware API for Array Integration (VAAI) primitives are enabled:

VAAI is a set of APIs that offloads storage tasks from the ESXi host to the storage array, improving performance and efficiency. However, it does not provide a unified interface for managing both FlashArray and VMware environments.

B). Log in to the FlashArray GUI and install the plugin for vSphere Client:

While the FlashArray plugin for vSphere Client provides some integration, such as provisioning and monitoring FlashArray volumes directly from the vSphere Client, it does not offer comprehensive visibility and control over both environments from a single interface.

C). Configure FlashArray Management Pack for vRealize Operations Manager:

The FlashArray Management Pack for vROps integrates Pure Storage FlashArray with VMware vRealize Operations Manager, enabling centralized monitoring, analytics, and management of both environments from a single pane of glass.

This solution provides deep insights into storage performance, capacity utilization, and health metrics, making it the ideal choice for the customer's requirement.

D). Install Pure Storage SRA for VMware Site Recovery Manager (SRM):

The Pure Storage Storage Replication Adapter (SRA) is used for disaster recovery orchestration with VMware SRM. It does not provide a unified interface for managing FlashArray and VMware environments.

Recommendation:

The correct answer is C. Configure FlashArray Management Pack for vRealize Operations Manager, as it fulfills the customer's need for a single user interface to manage both FlashArray and VMware environments.

Reference: Pure Storage FlashArray Management Pack for vROps Documentation:

FlashArray Management Pack for vROps

Explains how to integrate FlashArray with vROps for unified monitoring and management.

Pure Storage VMware Integration Overview:

Pure Storage VMware Integration

Provides an overview of Pure Storage's VMware integration solutions.

NEW QUESTION # 25

A company has two data centers that are 30 miles apart with a round trip latency of 4ms.

What Pure Storage software will allow the lowest RPO disaster recovery strategy between the two data centers?

- A. Purity Snapshots
- B. Pure1 Manage
- C. Purity Snapshot Replication
- D. Purity ActiveCluster

Answer: C

Explanation:

To achieve the lowest RPO (Recovery Point Objective) disaster recovery strategy between two data centers located 30 miles apart with a round-trip latency of 4ms, Purity Snapshot Replication is the best choice.

Here's why:

Analysis of Options:

A). Purity Snapshot Replication:

Snapshot Replication is an asynchronous replication method that periodically replicates snapshots of volumes to a remote FlashArray.

With a round-trip latency of 4ms, Snapshot Replication can achieve very low RPOs (typically seconds to minutes), making it suitable for disaster recovery in this scenario.

B). Purity ActiveCluster:

ActiveCluster is a synchronous replication solution that provides active-active high availability across two arrays.

While ActiveCluster offers zero RPO and zero RTO, it is typically limited to shorter distances due to latency constraints. At 30 miles and 4ms latency, ActiveCluster may still work but is less optimal compared to Snapshot Replication for disaster recovery.

C). Pure1 Manage:

Pure1 Manage is a cloud-based monitoring and management platform for Pure Storage arrays. It does not provide replication or disaster recovery capabilities.

D). Purity Snapshots:

Snapshots are point-in-time copies of data stored locally on the FlashArray. They do not provide replication to a remote site and are therefore unsuitable for disaster recovery.

Recommendation:

The correct answer is

A). Purity Snapshot Replication, as it provides the lowest RPO for disaster recovery over a 30-mile distance with 4ms latency.

Reference: Purity Snapshot Replication Documentation:

Purity Snapshot Replication

Explains how Snapshot Replication works and its use cases.

Purity ActiveCluster Documentation:

Purity ActiveCluster

Details the capabilities and limitations of ActiveCluster.

NEW QUESTION # 26

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. ActiveCluster

- C. FlashRecover
- D. ActiveDR

Answer: C,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 # 27

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