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These Pure Storage FlashArray Architect Associate (FAAA_005) exam questions help applicants prepare well prior to entering the actual Pure Storage FlashArray Architect Associate (FAAA_005) exam center. Due to our actual FAAA_005 Exam Dumps, our valued customers always pass their Pure Storage FAAA_005 exam on the very first try hence, saving their precious time and money too.

Pure Storage FlashArray Architect Associate Sample Questions (Q20-Q25):

NEW QUESTION # 20

Which FlashArray feature allows snapshots to be sent to a public cloud target?

- A. ActiveCluster
- B. Cloud Block Store
- C. CloudSnap

Answer: C

Explanation:

The FlashArray feature that allows snapshots to be sent to a public cloud target is CloudSnap.

Why This Matters:

CloudSnap:

CloudSnap is a feature that offloads snapshots to cloud storage providers like AWS S3 or Azure Blob.

It provides a cost-effective and scalable solution for storing backups or archival data in the cloud, ensuring offsite protection and long-term retention.

Public Cloud Integration:

By leveraging public cloud storage, customers can reduce on-premises storage costs while maintaining secure and accessible backups.

Why Not the Other Options?

A). 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 sending snapshots to a public cloud target.

C). ActiveCluster:

ActiveCluster provides synchronous replication between two sites for high availability. It does not involve offloading snapshots to the cloud.

Key Points:

CloudSnap: Offloads snapshots to public cloud storage for cost-effective and scalable backups.

Offsite Protection: Ensures data is securely stored in the cloud for disaster recovery or archival purposes.

Integration: Seamlessly integrates with popular cloud providers like AWS and Azure.

Reference: Pure Storage FlashArray Documentation: "CloudSnap for Offsite Backups" Pure Storage Whitepaper: "Cost-Effective Backup Strategies with FlashArray" Pure Storage Knowledge Base: "Using CloudSnap to Offload Snapshots"

NEW QUESTION # 21

Which Pure Storage offering can be deployed in AWS?

- A. CloudSnap
- B. Cloud Block Store
- C. ObjectEngine

Answer: B

Explanation:

The Pure Storage offering that can be deployed in AWS is Cloud Block Store.

Why This Matters:

Cloud Block Store:

Cloud Block Store is a cloud-native block storage solution that runs in public clouds like AWS and Azure.

It provides enterprise-grade storage features, including deduplication, compression, and thin provisioning, while seamlessly integrating with on-premises FlashArray environments.

Why Not the Other Options?

A). ObjectEngine:

ObjectEngine is a backup and recovery solution designed for rapid restores and backups. It is not a storage solution that can be deployed in AWS.

C). CloudSnap:

CloudSnap is a feature that offloads snapshots to cloud storage (e.g., AWS S3 or Azure Blob). It is not a standalone storage solution but rather a feature of FlashArray.

Key Points:

Cloud Block Store: Provides block storage in AWS with enterprise-grade features.

Integration: Seamlessly integrates with on-premises FlashArray environments for hybrid cloud architectures.

Scalability: Enables scalable and cost-effective storage in the cloud.

Reference: Pure Storage Cloud Block Store Documentation: "Deploying Cloud Block Store in AWS" Pure Storage Whitepaper: "Hybrid Cloud Architectures with FlashArray and Cloud Block Store" Pure Storage Knowledge Base: "Cloud Block Store Use Cases and Deployment"

NEW QUESTION # 22

Refer to the exhibit.

What does the depicted value 77.24 T represent?

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

Answer: B

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 # 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 has presented two workloads that need to be replicated. One is a highly transactional database workload and the other is a VM datastore with tier one applications.

The customer has the following requirements:

* The database workload is highly reliant on storage performance. The VM datastore requires zero downtime.

* The customer has advised the two FlashArrays will be 20 miles apart and they are worried that this could impact their internal SLAs.

What replication strategies should be advised for these workloads?

- A. ActiveDR should be used for the VM workloads and ActiveCluster for the database workload.
- **B. ActiveCluster should be used for the VM workloads and ActiveDR for the database workload.**
- C. ActiveDR should be used for both workloads.
- D. ActiveCluster should be used for both workloads.

Answer: B

Explanation:

To address the customer's requirements, we need to evaluate the replication strategies offered by Pure Storage FlashArray: ActiveCluster and ActiveDR, and how they align with the specific needs of the two workloads.

Workload Analysis:

Transactional Database Workload:

This workload is highly reliant on storage performance. Any replication strategy must ensure minimal latency and high availability to avoid impacting transactional throughput and response times.

The database workload typically benefits from synchronous replication to maintain consistency and performance across sites.

VM Datastore (Tier 1 Applications):

This workload requires zero downtime, meaning it must remain accessible even in the event of a site failure. High availability and seamless failover are critical.

The VM datastore can tolerate some level of asynchronous replication as long as it does not compromise availability or recovery objectives.

Replication Strategies:

ActiveCluster:

ActiveCluster is a synchronous replication solution that provides active-active high availability across two FlashArrays. It ensures zero RPO (Recovery Point Objective) and zero RTO (Recovery Time Objective), making it ideal for workloads requiring continuous availability and zero downtime.

ActiveCluster is well-suited for the VM datastore workload because it guarantees seamless failover and high availability, meeting the zero-downtime requirement.

ActiveDR:

ActiveDR is an asynchronous replication solution designed for disaster recovery scenarios. It provides near-zero RPO (typically seconds to minutes) and allows for non-disruptive testing of failover scenarios.

ActiveDR is better suited for the transactional database workload because it minimizes the impact of latency over the 20-mile distance while still maintaining high performance and consistency.

Distance Consideration:

The 20-mile distance between the two FlashArrays introduces latency concerns. Synchronous replication (ActiveCluster) can handle this distance effectively for the VM datastore workload due to its tolerance for slightly higher latency. However, for the transactional database workload, the latency could degrade performance, making ActiveDR a better choice.

Final Recommendation:

Use ActiveCluster for the VM datastore workload to achieve zero downtime and high availability.

Use ActiveDR for the transactional database workload to balance performance and disaster recovery needs over the 20-mile distance.

Reference: Pure Storage ActiveCluster Documentation:

Explains the synchronous replication capabilities and use cases for ActiveCluster.

Pure Storage ActiveCluster

Pure Storage ActiveDR Documentation:

Details the asynchronous replication features and disaster recovery use cases for ActiveDR.

Pure Storage ActiveDR

Pure Storage Best Practices for Replication:

Provides guidance on selecting the appropriate replication strategy based on workload requirements and distance considerations.

Pure Storage Replication Best Practices

Pure Storage Architectural Guides:

Covers architectural considerations for deploying ActiveCluster and ActiveDR in multi-site environments.

Pure Storage Architectural Guides

This approach ensures that both workloads meet their respective SLAs while addressing the customer's concerns about distance and performance.

NEW QUESTION # 25

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