

Pure Storage FAAA_005 Customized Lab Simulation - Reliable FAAA_005 Test Forum

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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 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

2 / 9

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Pure Storage FlashArray Architect Associate Sample Questions (Q17-Q22):

NEW QUESTION # 17

A healthcare customer who is already leveraging a FlashArray//X50 for VMware datastores has added a radiology department to their facility and requires a file-based storage solution for medical imaging.

- * They have 35 usable TB free.
- * They anticipate storing 15 TB in images.
- * System load is currently 35%.

Which approach will enable this workload?

- A. Medical imaging always belongs on a FlashBlade.
- B. They must first upgrade the controllers to a //X70 and enable FA File.
- **C. They can use FA File on the array as-is.**
- D. They should purchase a FlashArray//C and enable FA File.

Answer: C

Explanation:

The healthcare customer already has a FlashArray//X50 with 35 usable TB free and anticipates storing 15 TB of medical imaging data. Since the system load is currently 35%, they can enable FA File on the array as-is to support the new workload.

Why This Matters:

FA File:

FA File Services enables file-based storage (NFS and SMB) on FlashArray, allowing the array to handle both block and file workloads simultaneously.

With 35 TB of free capacity and only 15 TB required for medical imaging, there is sufficient space to accommodate the new workload.

The current system load of 35% indicates that the array has ample headroom to handle the additional workload without requiring upgrades.

Why Not the Other Options?

A). They must first upgrade the controllers to a //X70 and enable FA File:

Upgrading to a //X70 is unnecessary given the available capacity and low system load. The current //X50 is capable of supporting the workload.

C). Medical imaging always belongs on a FlashBlade:

While FlashBlade is ideal for large-scale, high-performance unstructured data workloads, it is not mandatory for this use case. FA File on FlashArray//X50 is sufficient for 15 TB of medical imaging data.

D). They should purchase a FlashArray//C and enable FA File:

Purchasing a new array is unnecessary given the available resources on the existing FlashArray//X50.

Key Points:

FA File: Enables file-based storage on FlashArray without requiring additional hardware.

Capacity and Load: The array has sufficient free space and performance headroom to handle the new workload.

Cost Efficiency: Avoids unnecessary upgrades or purchases, optimizing costs while meeting requirements.

Reference: Pure Storage FlashArray Documentation: "FA File Services Overview" Pure Storage Whitepaper: "Consolidating Workloads on FlashArray" Pure Storage Knowledge Base: "Supporting Multiple Workloads with FlashArray"

NEW QUESTION # 18

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. Portworx DBaaS
- **B. Cloud Block Store**
- C. Evergreen/Flex
- D. Evergreen/Forever

Answer: B

Explanation:

The customer has a cloud-first strategy and does not wish to own additional capital assets, meaning they are looking for a solution that operates entirely within the public cloud without requiring on-premises hardware. Additionally, their primary goal is to reduce cloud storage costs while managing a large volume of database data (100 TB).

Cloud Block Store (CBS) is the ideal solution for this requirement. CBS is a software-defined block storage solution that runs natively in the public cloud (e.g., AWS or Azure). It provides enterprise-grade storage features like deduplication, compression, and thin provisioning, which help optimize storage usage and reduce costs. By leveraging CBS, the customer can efficiently manage their database workloads in the cloud while minimizing storage expenses.

Why Not the Other Options?

A). Evergreen/Flex: This is a subscription-based model for on-premises FlashArray hardware. Since the customer does not want to own any additional capital assets, this option does not align with their cloud-first strategy.

B). Evergreen/Forever: Similar to Evergreen/Flex, this is an on-premises solution that involves hardware ownership, which does not meet the customer's requirements.

D). Portworx DBaaS: While Portworx is a containerized storage solution for databases, it is primarily designed for Kubernetes environments and does not directly address the need to reduce cloud storage costs for traditional database workloads.

Key Points:

Cloud Block Store: A cloud-native block storage solution that reduces storage costs through advanced data reduction techniques.

Cloud-First Strategy: CBS aligns perfectly with the customer's desire to avoid capital expenditures and operate entirely within the public cloud.

Reference: Pure Storage Cloud Block Store Documentation: "Deploying and Managing Cloud Block Store in Azure" Pure Storage

Whitepaper: "Optimizing Cloud Costs with Cloud Block Store" Pure Storage Best Practices Guide: "Database Workloads in the Public Cloud"

NEW QUESTION # 19

What allows for array upgrades without any degradation in performance?

- A. ActiveCluster
- B. Protection groups
- C. Right-Size Guarantee
- **D. Non-disruptive upgrades**

Answer: D

Explanation:

The feature that allows for array upgrades without any degradation in performance is non-disruptive upgrades.

Why This Matters:

Non-Disruptive Upgrades:

Pure Storage FlashArray supports rolling upgrades, enabling software updates (e.g., Purity//FA) and hardware upgrades (e.g., controllers) without interrupting operations.

During a controller upgrade, the active/active architecture ensures that one controller continues handling I/O operations while the other is upgraded, maintaining consistent performance.

Why Not the Other Options?

A). ActiveCluster:

ActiveCluster provides synchronous replication for high availability but does not directly relate to non-disruptive upgrades.

C). Right-Size Guarantee:

The Right-Size Guarantee ensures customers receive the expected effective capacity based on their workload's data reduction profile. It is unrelated to upgrades or performance.

D). Protection groups:

Protection groups are used for replication and snapshot management but do not impact the ability to perform non-disruptive upgrades.

Key Points:

Non-Disruptive Upgrades: Ensure seamless updates without impacting performance or availability.

Active/Active Architecture: Enables continuous I/O processing during upgrades.

Customer Experience: Minimizes downtime and disruption during maintenance or upgrades.

Reference: Pure Storage FlashArray Documentation: "Non-Disruptive Operations with FlashArray" Pure Storage Whitepaper:

"Evergreen Architecture and Non-Disruptive Upgrades" Pure Storage Knowledge Base: "Performing Non-Disruptive Upgrades on FlashArray"

NEW QUESTION # 20

What should a protection group in a stretched pod be used for?

- A. Initiating ActiveDR failover/failback in a test scenario
- B. Using CloudSnap to offload to a third-site target
- C. Configuring fan-out async snapshot replication
- **D. Integrating ActiveCluster with async snapshot replication**

Answer: D

Explanation:

A protection group in a stretched pod should be used for integrating ActiveCluster with asynchronous snapshot replication. This combination allows for synchronous replication within the stretched pod (using ActiveCluster) while also enabling asynchronous replication to a third site for additional disaster recovery protection.

Why This Matters:

ActiveCluster: Provides synchronous replication between two sites within a stretched pod, ensuring zero RPO and near-zero RTO for high availability.

Async Snapshot Replication: Extends the disaster recovery strategy by replicating snapshots asynchronously to a third site, providing an additional layer of protection against regional failures.

Combining these features ensures both local high availability and remote disaster recovery.

Why Not the Other Options?

B). Using CloudSnap to offload to a third-site target:

CloudSnap is used to offload snapshots to cloud storage (e.g., AWS S3 or Azure Blob). While it is useful for backup purposes, it does not integrate with ActiveCluster for synchronous replication.

C). Initiating ActiveDR failover/failback in a test scenario:

ActiveDR is designed for asynchronous replication and failover/failback scenarios but does not integrate with ActiveCluster in a stretched pod configuration.

D). Configuring fan-out async snapshot replication:

Fan-out replication involves sending snapshots to multiple targets asynchronously. However, this does not align with the use case of integrating ActiveCluster with async replication for a stretched pod.

Key Points:

Stretched Pod: Enables synchronous replication across two sites using ActiveCluster. Async Replication: Adds a third-site replication target for comprehensive disaster recovery. Integrated Protection: Combines high availability and disaster recovery into a single solution.

Reference: Pure Storage FlashArray Documentation: "ActiveCluster with Async Replication" Pure Storage Whitepaper: "Disaster Recovery Strategies with FlashArray" Pure Storage Knowledge Base: "Using Protection Groups in Stretched Pods"

NEW QUESTION # 21

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

Answer: A

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 # 22

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