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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

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Pure Storage FlashArray Architect Associate Sample Questions (Q37-Q42):

NEW QUESTION # 37

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

Answer: C

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 # 38

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

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

Answer: C,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 # 39

What architectural design simplifies controller upgrades from FlashArray//XR2 to //XR3?

- A. Re-use of existing HBAs to prevent WWN changes
- **B. Common controller chassis for both models**
- C. InfiniBand connectivity between controllers
- D. NVRAM modules in both controllers

Answer: B

Explanation:

The architectural design that simplifies controller upgrades from FlashArray//XR2 to //XR3 is the use of a common controller chassis for both models. This design allows customers to upgrade their controllers without replacing the entire array chassis, minimizing downtime and complexity during the upgrade process.

Why This Matters:

The common controller chassis ensures that the physical infrastructure (e.g., drive shelves, power supplies, and other components) remains unchanged during the upgrade. Only the controllers themselves need to be swapped out, which significantly reduces the time and effort required for the upgrade.

This approach also eliminates the need for re-cabling or reconfiguring the array, as the chassis and its connections remain consistent between the two models.

Why Not the Other Options?

B). InfiniBand connectivity between controllers: While InfiniBand is used for high-speed communication between controllers in FlashArray systems, it is not directly related to simplifying controller upgrades. It is a feature of the architecture but does not address the ease of upgrading between models.

C). NVRAM modules in both controllers: NVRAM (Non-Volatile RAM) is used to ensure data integrity during power loss, but it is not a factor in simplifying controller upgrades. Both XR2 and XR3 models include NVRAM, so this is not unique to the upgrade process.

D). Re-use of existing HBAs to prevent WWN changes: While reusing HBAs can help avoid changes to World Wide Names (WWNs), this is not a key factor in simplifying the upgrade process. The common controller chassis is the primary design feature that streamlines the upgrade.

Key Points:

Common Controller Chassis: Enables seamless upgrades by allowing the replacement of controllers without changing the rest of the array infrastructure.

Minimized Downtime: Reduces the time and complexity of upgrades, ensuring minimal disruption to operations.

Consistency Across Models: Ensures compatibility and continuity between different generations of FlashArray controllers.

Reference: Pure Storage FlashArray//X Documentation: "Controller Upgrade Process and Best Practices" Pure Storage Whitepaper: "Evergreen Architecture and Controller Upgrades" Pure Storage Knowledge Base: "Upgrading FlashArray Controllers Without Downtime"

NEW QUESTION # 40

An existing customer wants a new set of arrays with the following characteristics:

- * Business critical workload that requires sub millisecond response times
- * Synchronous replication configured to their secondary site
- * Offload snapshots to a third location where they do not have a FlashArray Which solution will meet the customer's needs?

FlashArray//Xs with ActiveDR and CloudSnap

- A. FlashArray//Cs with ActiveDR and Snapshot Replication
- **B. FlashArray//Xs with ActiveCluster and CloudSnap**
- C. FlashArray//Cs with ActiveCluster and Snapshot Replication

Answer: B

Explanation:

The customer has the following requirements:

Business-critical workload that requires sub-millisecond response times Synchronous replication configured to their secondary site Offload snapshots to a third location where they do not have a FlashArray The best solution to meet these needs is FlashArray//Xs with ActiveCluster and CloudSnap.

Why This Matters:

FlashArray//Xs:

FlashArray//X is optimized for high-performance workloads, delivering sub-millisecond response times required for business-critical applications.

ActiveCluster:

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

CloudSnap:

CloudSnap offloads snapshots to cloud storage (e.g., AWS S3 or Azure Blob), enabling disaster recovery or archival at a third location without requiring an additional FlashArray.

Why Not the Other Options?

B). FlashArray//Cs with ActiveDR and Snapshot Replication:

FlashArray//C is designed for capacity-optimized workloads and does not provide the sub-millisecond response times required for business-critical applications.

ActiveDR provides asynchronous replication, which does not meet the requirement for synchronous replication.

C). FlashArray//Cs with ActiveCluster and Snapshot Replication:

Again, FlashArray//C is not suitable for sub-millisecond response times. Additionally, snapshot replication to a third location is less efficient than CloudSnap for offloading data to the cloud.

Key Points:

FlashArray//Xs: Delivers the high performance required for business-critical workloads. ActiveCluster: Ensures synchronous replication for high availability across two sites. CloudSnap: Provides cost-effective offsite protection by offloading snapshots to the cloud.

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

NEW QUESTION # 41

Which two features are specific to the Evergreen/Forever Program and are NOT included with Evergreen/Foundation? (Choose two.)

- A. Capacity Consolidation
- **B. Upgrade Always**
- **C. Controller Upgrades**
- D. Pro Deployment

Answer: B,C

Explanation:

The Evergreen/Forever program is Pure Storage's premium subscription offering, providing continuous upgrades and enhancements to ensure customers always have access to the latest technology. In contrast, Evergreen/Foundation is a lower-tier subscription with limited benefits.

Here's an analysis of the features:

Correct Features:

A). Controller Upgrades:

Controller upgrades are a key feature of Evergreen//Forever, allowing customers to upgrade their FlashArray controllers non-disruptively to newer generations.

This feature is not included in Evergreen//Foundation.

D). Upgrade Always:

"Upgrade Always" ensures that customers can continuously upgrade their hardware and software without additional costs.

This is a hallmark of Evergreen//Forever and is not available in Evergreen//Foundation.

Incorrect Features:

B). Pro Deployment:

Pro Deployment services are available across all Evergreen tiers, including Evergreen//Foundation. Therefore, this is not specific to Evergreen//Forever.

C). Capacity Consolidation:

Capacity consolidation is a general benefit of Pure Storage arrays and is not exclusive to Evergreen//Forever.

It is also available in Evergreen//Foundation.

Final Recommendation:

The correct answers are

A). Controller Upgrades and

D). Upgrade Always, as these are specific to Evergreen//Forever and not included in Evergreen//Foundation.

Reference: Evergreen//Forever Program Overview:

Evergreen//Forever

Explains the benefits and features of Evergreen//Forever.

Evergreen Subscription Tiers Comparison:

Evergreen Tiers

Compares the features of Evergreen//Forever and Evergreen//Foundation.

NEW QUESTION # 42

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