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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 (Q48-Q53):

NEW QUESTION # 48

A customer has two data centers: one in North America and one in England. The customer wants to replicate their production data across data centers, with as low an RPO as possible.

What Pure Storage feature meets their requirements?

- A. Asynchronous snapshot replication
- B. ActiveCluster
- C. ActiveDR

Answer: C

Explanation:

The customer wants to replicate production data across two data centers (North America and England) with as low an RPO as possible. The best Pure Storage feature to meet this requirement is ActiveDR.

Why This Matters:

ActiveDR:

ActiveDR is an asynchronous replication solution designed for disaster recovery scenarios where the secondary site may be geographically distant (e.g., across continents).

It provides low RPOs, typically in the range of seconds to minutes, depending on network conditions and workload characteristics.

ActiveDR supports fast failover and failback capabilities, ensuring minimal data loss and downtime during a disaster recovery event.

Why Not the Other Options?

A). ActiveCluster:

ActiveCluster provides synchronous replication between two sites within a stretched cluster, ensuring zero RPO and near-zero RTO. However, it requires both sites to be within a low-latency range (typically <10 ms). Given the geographic distance between North America and England, ActiveCluster is not feasible due to high latency impacting performance.

C). Asynchronous snapshot replication:

Traditional asynchronous snapshot replication typically results in higher RPOs compared to ActiveDR.

It does not provide the same level of optimization for low RPOs as ActiveDR.

Key Points:

ActiveDR: Provides the lowest RPO possible for asynchronous replication, making it ideal for geographically distant sites.

Network Latency: ActiveDR is designed to work efficiently over longer distances and higher latencies compared to synchronous solutions like ActiveCluster.

Disaster Recovery: Ensures protection against site failures with minimal data loss and downtime.

Reference: Pure Storage FlashArray Documentation: "ActiveDR for Disaster Recovery" Pure Storage Whitepaper: "Meeting RPO and RTO Requirements with FlashArray" Pure Storage Knowledge Base: "Choosing the Right Replication Solution for High Latency"

NEW QUESTION # 49

A Storage Administrator has two //X50R3 FlashArrays. The two FlashArrays are located in different data centers with a network link between them. The ethernet link between data centers has a latency of 35 ms.

Which Purity feature will provide protection against a site failure with the lowest recovery point?

- A. ActiveCluster
- B. Local snapshots
- C. ActiveDR
- D. Snapshot replication

Answer: C

Explanation:

Given that the two FlashArrays are located in different data centers with a network link latency of 35 ms, the best Purity feature to provide protection against a site failure with the lowest recovery point is ActiveDR.

Why This Matters:

ActiveDR:

ActiveDR is an asynchronous replication solution designed for disaster recovery scenarios where the secondary site may be geographically distant (e.g., >10 ms latency).

It provides low RPOs (typically seconds to minutes) and supports fast failover and fallback capabilities, ensuring minimal data loss and downtime.

With a 35 ms latency between sites, synchronous replication (e.g., ActiveCluster) is not feasible due to the high latency impacting performance.

Why Not the Other Options?

A). ActiveCluster:

ActiveCluster requires synchronous replication, which is only suitable for sites within a low-latency range (<10 ms). At 35 ms latency, ActiveCluster would cause significant performance degradation.

C). Snapshot replication:

Snapshot replication is asynchronous but does not provide the same level of failover and fallback capabilities as ActiveDR. It is better suited for backup purposes rather than disaster recovery with low RPOs.

D). Local snapshots:

Local snapshots are useful for point-in-time recovery within a single array but do not protect against site failures.

Key Points:

ActiveDR: Ideal for asynchronous replication with low RPOs and fast failover/fallback.

Latency Considerations: ActiveDR supports higher latencies (e.g., 35 ms) compared to synchronous solutions like ActiveCluster.

Disaster Recovery: Ensures protection against site failures with minimal data loss and downtime.

Reference: Pure Storage FlashArray Documentation: "ActiveDR for Disaster Recovery" Pure Storage Whitepaper: "Meeting RPO and RTO Requirements with FlashArray" Pure Storage Knowledge Base: "Choosing the Right Replication Solution for High Latency"

NEW QUESTION # 50

What causes a disruption to Pure FlashArray stateless controller operations or performance, if there is a single array?

- A. Upgrade Purity//FA code
- **B. Physically relocating an array**
- C. Moving from a SAS- to NVMe-based shelf
- D. Replacing a controller I/O module

Answer: B

Explanation:

Among the listed options, physically relocating an array is the action most likely to cause a disruption to Pure FlashArray stateless controller operations or performance.

Why This Matters:

Physical Relocation:

Moving a FlashArray involves powering down the system, disconnecting cables, and transporting the hardware to a new location. This process inherently disrupts operations and performance until the array is reinstalled and brought back online.

Even with proper planning, physical relocation introduces downtime and potential risks (e.g., hardware damage during transport).

Why Not the Other Options?

A). Replacing a controller I/O module:

FlashArray controllers are designed with redundancy and hot-swappable components. Replacing an I/O module typically does not cause significant disruptions, as the other controller continues to handle operations.

C). Moving from a SAS- to NVMe-based shelf:

Transitioning to NVMe-based shelves is a planned upgrade that does not inherently disrupt operations. The array can continue functioning during the transition, though performance may vary temporarily.

D). Upgrade Purity//FA code:

Upgrading Purity//FA (the operating system for FlashArray) is a non-disruptive process. FlashArray supports rolling upgrades, ensuring continuous availability and performance during the update.

Key Points:

Physical Relocation: Causes unavoidable downtime and operational disruption.

Redundancy and Non-Disruptive Operations: FlashArray is designed to minimize disruptions for tasks like module replacement and software upgrades.

Planning Required: Physical relocation requires careful planning to minimize risks and downtime.

Reference: Pure Storage FlashArray Documentation: "Maintenance and Relocation Best Practices" Pure Storage Whitepaper: "Non-Disruptive Operations with FlashArray" Pure Storage Knowledge Base: "Minimizing Disruptions During Array Maintenance"

NEW QUESTION # 51

The customer asks if the FlashArray is suitable for a cloud-native application that utilizes containers and Kubernetes. Which response addresses this question?

- A. This is supported via Pure's Portworx offering.
- B. This is not supported with FlashArray and this application data will need to be stored on a different array.
- C. This is supported via an installable CSI provider specifically for the FlashArray.
- D. This is supported and Pure uses a software layer that is only compatible with DAS storage in Kubernetes.

Answer: A

Explanation:

The FlashArray is suitable for cloud-native applications that utilize containers and Kubernetes, but the best way to address this use case is through Pure Storage's Portworx offering.

Why This Matters:

Portworx:

Portworx is a container storage and data management platform specifically designed for Kubernetes and cloud-native applications. It integrates seamlessly with FlashArray to provide persistent storage, data protection, and advanced features like snapshots, replication, and disaster recovery for containerized workloads.

Portworx ensures high performance, scalability, and reliability for stateful applications running in Kubernetes environments.

Why Not the Other Options?

A). This is not supported with FlashArray and this application data will need to be stored on a different array:

This statement is incorrect. FlashArray is fully capable of supporting cloud-native applications when paired with the right tools, such as Portworx.

B). This is supported via an installable CSI provider specifically for the FlashArray:

While FlashArray does support a Container Storage Interface (CSI) driver, it is a basic integration and does not provide the advanced features and capabilities offered by Portworx for Kubernetes environments.

D). This is supported and Pure uses a software layer that is only compatible with DAS storage in Kubernetes:

This statement is incorrect. Pure Storage solutions are compatible with both direct-attached storage (DAS) and external storage arrays like FlashArray.

Key Points:

Portworx: The recommended solution for integrating FlashArray with Kubernetes and containerized applications.

Advanced Features: Provides persistent storage, data protection, and scalability for cloud-native workloads.

Integration: Ensures seamless compatibility between FlashArray and Kubernetes environments.

Reference: Pure Storage Portworx Documentation: "Integrating Portworx with FlashArray" Pure Storage Whitepaper: "Cloud-Native Storage Solutions with Portworx" Pure Storage Knowledge Base: "Best Practices for Kubernetes and FlashArray Integration"

NEW QUESTION # 52

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

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

Answer: A,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 # 53

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