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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 (Q21-Q26):

NEW QUESTION # 21
A customer running FlashArray//X70R3 in production just purchased a FlashArray//C60R3 Array for a secondary site. The customer wants to have the lowest RPO (Recovery Point Objective) possible for the data.
Which FlashArray feature will meet the requirements?

- A. ActiveDR
- B. Async Replication
- C. ActiveCluster

Answer: A

Explanation:
The customer wants to achieve the lowest RPO (Recovery Point Objective) possible for their data when replicating between a FlashArray//X70R3 in production and a FlashArray//C60R3 at a secondary site. The best feature to meet this requirement is ActiveDR.
Why This Matters:
ActiveDR:
ActiveDR is an asynchronous replication solution designed for disaster recovery scenarios. It provides low RPOs, typically in the range of seconds to minutes, depending on network conditions and workload characteristics.
While it is asynchronous, ActiveDR achieves much lower RPOs compared to traditional async replication methods like snapshot replication.
It also supports fast failover and failback, ensuring minimal downtime during a disaster recovery event.
Why Not the Other Options?
A). ActiveCluster:
ActiveCluster provides synchronous replication with zero RPO and near-zero RTO. However, it requires both sites to be within a low-latency range (typically <10 ms). Since the customer has not specified that the secondary site is within synchronous distance, ActiveCluster is not feasible in this scenario.
C). Async Replication:
Traditional asynchronous replication (e.g., 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 secondary 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 # 22
A customer is looking for a new storage system with the following requirements:
* 20 TB of file shares
* Support 800 TB of Wols
* Low cost per GB
* CloudSnap utilization in the future
Which Pure Storage platform should be recommended?

- A. FlashArray//X
- B. FlashArray//C
- C. FlashBlade//S
- D. Cloud Block Store

Answer: B

Explanation:
The customer is looking for a storage system that supports 20 TB of file shares, 800 TB of workloads, has a low cost per GB, and can utilize CloudSnap in the future. The best recommendation is FlashArray//C.
Why This Matters:
FlashArray//C:
FlashArray//C is designed for capacity-optimized workloads, making it ideal for use cases requiring large amounts of storage at a lower cost per GB compared to higher-performance arrays like FlashArray//X.
It supports QLC flash technology, which provides high density and cost efficiency for less performance-intensive workloads.
CloudSnap is fully supported on FlashArray//C, enabling snapshots to be offloaded to public cloud storage for disaster recovery or archival purposes.
Why Not the Other Options?
A). FlashArray//X:
FlashArray//X is optimized for high-performance workloads, such as databases and mission-critical applications. While it supports CloudSnap, it is more expensive and not the most cost-effective solution for large-scale capacity needs.
C). 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 meet the requirement for on-premises storage with file shares and CloudSnap utilization.
D). FlashBlade//S:
FlashBlade//S is designed for file and object storage but is typically used for high-performance, unstructured data workloads. It is more expensive than FlashArray//C and not necessary for this use case.
Key Points:
FlashArray//C: Provides high-density storage at a low cost per GB, ideal for large-scale workloads.
CloudSnap Support: Enables offloading snapshots to the cloud for disaster recovery or archival purposes.
Cost Efficiency: Balances performance and cost, making it suitable for file shares and large datasets.
Reference: Pure Storage FlashArray//C Documentation: "Use Cases for FlashArray//C" Pure Storage Whitepaper: "Optimizing Storage Costs with FlashArray//C" Pure Storage Knowledge Base: "Choosing the Right FlashArray Model for Your Workload"

NEW QUESTION # 23
A customer needs to be able to replicate from on-prem into the public cloud. They want to use the cloud as their DR site with failover and fallback capabilities.
Which Pure Storage feature should the customer use?

- A. Purity//FA CloudSnap periodic offload of snapshots to AWS
- B. Snapshot replication to replicate between a FlashArray on site and Cloud Block Store
- C. ActiveCluster FC replication between a FlashArray on site and Evergreen//One

Answer: B

Explanation:
The customer requires a disaster recovery (DR) solution that allows them to replicate data from their on-premises environment to the public cloud. They also need failover and fallback capabilities, meaning they must be able to switch operations to the cloud during a disaster and revert back to on-premises once the issue is resolved.
Snapshot replication between a FlashArray on-premises and Cloud Block Store (CBS) is the best solution for this use case. CBS integrates seamlessly with on-premises FlashArrays, enabling efficient replication of snapshots to the cloud. This feature supports failover and fallback operations, ensuring business continuity in the event of a disaster.
Why Not the Other Options?
B). Purity//FA CloudSnap periodic offload of snapshots to AWS: While CloudSnap allows periodic offloading of snapshots to AWS S3 for backup purposes, it does not provide the real-time replication and failover/fallback capabilities required for DR.
C). ActiveCluster FC replication between a FlashArray on site and Evergreen//One: ActiveCluster is designed for synchronous replication between two FlashArrays in different locations, but it does not support replication to the public cloud.
Key Points:
Snapshot Replication: Enables efficient and reliable replication of data between on-premises FlashArrays and Cloud Block Store.
Failover and Fallback: CBS supports these capabilities, ensuring minimal downtime during a disaster.
Integration with FlashArray: CBS is specifically designed to work with FlashArray, providing a seamless DR solution.
Reference: Pure Storage Cloud Block Store Documentation: "Disaster Recovery with Cloud Block Store" Pure Storage Best Practices Guide: "Replication and Failover in Hybrid Cloud Environments" Pure Storage Whitepaper: "Hybrid Cloud Architectures with FlashArray and Cloud Block Store"

NEW QUESTION # 24

Which FlashArray feature best protects local snapshots from ransomware attacks?

- A. CloudSnap
- B. SafeMode
- C. ActiveCluster

Answer: B

Explanation:
The FlashArray feature that best protects local snapshots from ransomware attacks is SafeMode.
Why This Matters:
SafeMode Snapshots:
SafeMode is a security feature that creates immutable snapshots, meaning they cannot be deleted, modified, or encrypted by malicious actors, including ransomware.
These snapshots are locked for a user-defined retention period, ensuring data integrity and recoverability even in the event of a ransomware attack.
Why Not the Other Options?
A). CloudSnap:
CloudSnap offloads snapshots to cloud storage (e.g., AWS S3 or Azure Blob). While it provides an offsite backup solution, it does not inherently protect against ransomware attacks targeting local snapshots.
C). ActiveCluster:
ActiveCluster provides synchronous replication between two sites for high availability. While it ensures data redundancy, it does not protect against ransomware attacks targeting snapshots.
Key Points:
SafeMode: Creates immutable snapshots to protect against ransomware attacks. Data Integrity: Ensures snapshots remain unaltered during the retention period. Ransomware Protection: A critical feature for safeguarding data in modern IT environments.
Reference: Pure Storage FlashArray Documentation: "SafeMode Snapshots for Ransomware Protection" Pure Storage Whitepaper: "Protecting Data Against Ransomware with FlashArray" Pure Storage Knowledge Base: "Best Practices for Using SafeMode Snapshots"

NEW QUESTION # 25

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. 12 TiB
- D. 28 TiB

Answer: A

Explanation:
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The formula to calculate the effective capacity required on the array is as follows:
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:
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

NEW QUESTION # 26

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