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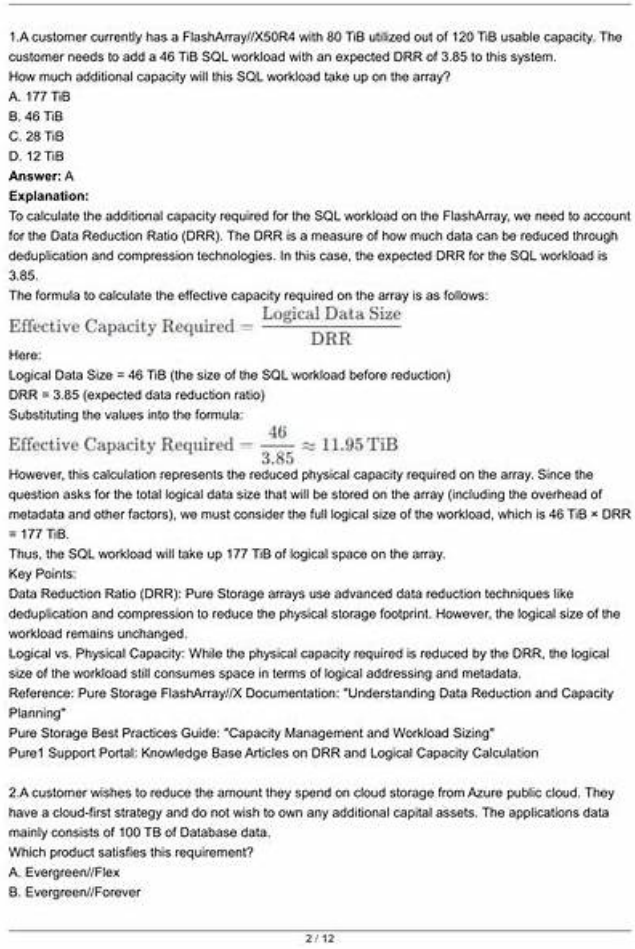

1.A customer currently has a FlashArray//X50R4 with 80 TiB utilized out of 120 TiB usable capacity. The customer needs to add a 46 TiB SQL workload with an expected DRR of 3.85 to this system.
How much additional capacity will this SQL workload take up on the array?
A. 177 TiB
B. 46 TiB
C. 28 TiB
D. 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 (Q44-Q49):

NEW QUESTION # 44
A customer is unsatisfied because the level of data reduction on their FlashArray is NOT as high as expected.
What two statements should the SE make to the customer? (Choose two.)

- A. A FlashArray's compression and deduplication will need to be tuned for data subsets.
- B. The Right-Size Guarantee means that the customer can work with their SE if necessary.
- C. FlashArray data reduction needs to be tuned to increase its effectiveness.
- D. FlashArray's deduplication effectiveness will usually increase as the data quantity grows.

Answer: B,D

Explanation:
If a customer is unsatisfied with the level of data reduction on their FlashArray, the SE should make the following two statements:
FlashArray's deduplication effectiveness will usually increase as the data quantity grows:
Deduplication relies on identifying and eliminating duplicate data blocks. As more data is written to the array, the likelihood of finding duplicates increases, improving the overall deduplication ratio.
Customers should expect better data reduction results over time as their dataset grows.
The Right-Size Guarantee means that the customer can work with their SE if necessary:
Pure Storage's Right-Size Guarantee ensures that customers receive the expected effective capacity based on their workload's data reduction profile. If the actual data reduction does not meet expectations, the customer can collaborate with their SE to address the issue and potentially adjust their subscription or configuration.
Why Not the Other Options?
A). A FlashArray's compression and deduplication will need to be tuned for data subsets:
FlashArray's data reduction techniques (compression and deduplication) are automatic and do not require manual tuning. This statement is misleading.
C). FlashArray data reduction needs to be tuned to increase its effectiveness:
Similar to Option A, FlashArray's data reduction mechanisms are fully automated and do not require manual intervention.
Key Points:
Data Growth: Deduplication effectiveness improves as more data is written to the array.
Right-Size Guarantee: Provides assurance that customers can work with their SE to address data reduction concerns.
Automatic Optimization: FlashArray's data reduction features are self-optimizing and do not require manual tuning.
Reference: Pure Storage FlashArray Documentation: "Understanding Data Reduction and Capacity Planning" Pure Storage Whitepaper: "Maximizing Data Reduction with FlashArray" Pure Storage Knowledge Base: "Right-Size Guarantee Terms and Conditions"

NEW QUESTION # 45
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. ActiveCluster should be used for both workloads.
- B. ActiveDR should be used for both workloads.
- C. ActiveCluster should be used for the VM workloads and ActiveDR for the database workload.
- D. ActiveDR should be used for the VM workloads and ActiveCluster for the database workload.

Answer: C

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 # 46
A cost-conscious customer at a small regional hospital is running a PACS image archive on an NL-disk array.
The customer has the following requirements:
* More than 1 PB of storage
* Latency is not a concern
* Customer user shares must be on the same array
Which solution will meet the customer's needs?

- A. FlashArray//X
- B. FlashArray//C
- C. FlashArray//XL

Answer: B

Explanation:
The customer at the small regional hospital requires a storage solution for a PACS image archive with the following requirements:
More than 1 PB of storage
Latency is not a concern
Customer user shares must be on the same array
The best solution to meet these needs is FlashArray//C.
Why This Matters:
FlashArray//C:
FlashArray//C is designed for capacity-optimized workloads, making it ideal for use cases like PACS image archives that require large amounts of storage at a lower cost per GB.
It supports QLC flash technology, which provides high density and cost efficiency for less performance-intensive workloads.
With its ability to scale to over 1 PB of storage, FlashArray//C can meet the customer's capacity requirements while supporting both block and file workloads (e.g., user shares) on the same array using FA File Services.
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 large capacities, it is more expensive and not the most cost-effective solution for latency-insensitive workloads like PACS archives.
B). FlashArray//XL:
FlashArray//XL is designed for extreme-scale workloads requiring massive performance and capacity. It is overkill for this use case and would significantly increase costs without providing proportional benefits.
Key Points:
FlashArray//C: Provides high-density storage at a low cost per GB, ideal for large-scale, latency-insensitive workloads.
Unified Storage: Supports both block and file workloads on the same array, meeting the requirement for user shares.
Cost Efficiency: Balances performance and cost, making it suitable for PACS archives and similar use cases.
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 # 47
What architectural design simplifies controller upgrades from FlashArray//XR2 to //XR3?

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

Answer: D

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 # 48
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 # 49
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