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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 (Q13-Q18):

NEW QUESTION # 13
A System Administrator has a FlashArray//X70R3. They need to add a backup element as part of their data protection strategy. They have the following requirements:
* The solution should be offsite
* Cost needs to be kept as low as possible
* The backup needs to be stored in a different location from their current FlashArray
* Restore times are not a concern
Which solution should the SE recommend to the System Administrator?

- A. ActiveDR to a FlashArray//C60
- B. ActiveCluster to a FlashArray//C60
- C. CloudSnap to a public cloud provider

Answer: C

Explanation:
The System Administrator requires an offsite backup solution that is cost-effective, stores data in a different location from the current FlashArray, and does not prioritize restore times. The best solution to recommend is CloudSnap to a public cloud provider.
Why This Matters:
CloudSnap:
CloudSnap is a feature that offloads snapshots to cloud storage providers like AWS S3 or Azure Blob.
It is highly cost-effective because customers only pay for the cloud storage they use, and it eliminates the need for additional on-premises hardware.
Since restore times are not a concern, CloudSnap's slower restore process compared to on-premises solutions is acceptable.
Why Not the Other Options?
A). ActiveCluster to a FlashArray//C60:
ActiveCluster provides synchronous replication for high availability but does not meet the requirement for an offsite backup solution. Additionally, it is more expensive than CloudSnap.
B). ActiveDR to a FlashArray//C60:
ActiveDR provides asynchronous replication for disaster recovery but requires additional hardware (FlashArray//C60), which increases costs. It is less cost-effective than CloudSnap for backup purposes.
Key Points:
Cost Efficiency: CloudSnap leverages cloud storage, minimizing upfront and ongoing costs. Offsite Storage: Ensures backups are stored in a different location from the primary FlashArray. Restore Times: CloudSnap's slower restore process is acceptable given the customer's requirements.
Reference: Pure Storage FlashArray Documentation: "CloudSnap for Offsite Backups" Pure Storage Whitepaper: "Cost-Effective Backup Strategies with FlashArray" Pure Storage Knowledge Base: "Choosing the Right Backup Solution for Your Workload"

NEW QUESTION # 14
After meeting with a potential customer, an SE confirmed the following details:
* The customer's current workload is 50 TB
* The workload has an expected DRR of 4:1
* The customer's data has predictable growth rate of 25% per year
* A 20% headroom for any unexpected workloads that may occur in the future When sizing this solution, the SE needs to make sure that the customer will have enough capacity to last 3 years.
Which raw capacity will meet these requirements?

- A. 225 TB
- B. 300 TB
- C. 30 TB
- D. 56 TB

Answer: A

Explanation:
To determine the raw capacity required to meet the customer's needs for 3 years, we need to account for the current workload, data reduction ratio (DRR), growth rate, and headroom.
Step-by-Step Calculation:
Current Logical Workload:
The customer's current workload is 50 TB.
Expected Growth Over 3 Years:
The workload grows at a predictable rate of 25% per year.
After 3 years, the logical workload will be:
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NEW QUESTION # 15
What is the fastest way to duplicate volume data for a test/dev environment?

- A. Restore from a volume snapshot
- B. Use a backup copy
- C. Make a volume copy
- D. Mount the snapshot to a development host

Answer: D

Explanation:
The fastest way to duplicate volume data for a test/dev environment is to mount the snapshot to a development host. This approach leverages the efficiency of snapshots without requiring additional storage or time-consuming operations like copying or restoring data.
Why This Matters:
Snapshots:
Snapshots are space-efficient, point-in-time copies of a volume that do not consume additional storage until changes are made to the original data.
Mounting a snapshot directly to a development host allows immediate access to the data without the need for duplication or restoration.
Speed and Efficiency:
Mounting a snapshot is significantly faster than creating a full copy or restoring from a backup, as it avoids the overhead of data movement or replication.
Why Not the Other Options?
A). Use a backup copy:
Restoring data from a backup is time-consuming and requires additional storage. It is not the fastest method for duplicating data.
B). Make a volume copy:
Creating a full volume copy consumes additional storage and takes longer than mounting a snapshot.
C). Restore from a volume snapshot:
Restoring from a snapshot involves writing data back to the original volume, which is slower than simply mounting the snapshot for read-only or writable access.
Key Points:
Snapshots: Provide fast, space-efficient access to data for test/dev environments.
Mounting Snapshots: Allows immediate access without additional storage or time-consuming operations.
Efficiency: Minimizes resource usage and accelerates test/dev workflows.
Reference: Pure Storage FlashArray Documentation: "Using Snapshots for Test/Dev Environments" Pure Storage Whitepaper: "Best Practices for Managing Test/Dev Workloads" Pure Storage Knowledge Base: "Mounting Snapshots to Hosts"

NEW QUESTION # 16
Refer to the exhibit.
What does the depicted value 77.24 T represent?

- A. The guaranteed capacity
- B. Total raw space on the array
- C. Total useable space

- D. Total deduplicated space

Answer: A

Explanation:
The value 77.24 T in the context of Pure Storage FlashArray represents C. The guaranteed capacity.
Detailed Explanation
Guaranteed Capacity is a feature of Pure Storage's Evergreen subscription model. It reflects the effective capacity Pure Storage commits to the customer based on their typical data reduction ratios (deduplication, compression, and pattern removal). This value is calculated as:
Guaranteed Capacity=Physical Raw Capacity×Data Reduction Factor (DRF)Guaranteed Capacity=Physi cal Raw Capacity×Data Reduction Factor (DRF) Pure typically guarantees a minimum DRF (e.g., 3:1 for many workloads), but actual savings often exceed this.
Why Not the Other Options?
A). Total usable space: This would include the total logical capacity after data reduction and overheads (RAID-HD, metadata), which is usually larger than the guaranteed capacity.
B). Total raw space: This refers to the physical capacity of drives (e.g., 100TB raw). The value shown (77.24T) is smaller than raw, so this is incorrect.
D). Total deduplicated space: Pure Storage combines dedupe, compression, and pattern removal into a single "data reduction" metric. Deduplication alone is not isolated in capacity reporting.
Official
Reference: Pure Storage documentation explicitly defines Guaranteed Capacity as the "logical capacity Pure commits to deliver, factoring in data reduction." This aligns with the Evergreen//Forever subscription model, where customers pay for usable capacity, not raw storage.

NEW QUESTION # 17
How does Pure Storage help customers increase storage density in their arrays, as new technology becomes available, without rebuying existing storage?

- A. Customers can leverage Pure Storage's Capacity Consolidation offering.
- B. Customers can mix HDDs and flash modules within the same array.
- C. Customers can add a shelf with a Evergreen//One subscription.
- D. Customers can attach third-party storage arrays to the Pure Storage array.

Answer: C

Explanation:
Pure Storage helps customers increase storage density in their arrays as new technology becomes available through its
Evergreen//One subscription program. Here's an analysis of the options:
Analysis of Options:
A). Customers can attach third-party storage arrays to the Pure Storage array:
Pure Storage does not support attaching third-party storage arrays directly to its arrays. This is not a valid option.
B). Customers can leverage Pure Storage's Capacity Consolidation offering:
While capacity consolidation is a benefit of Pure Storage arrays, it does not specifically address increasing storage density with new technology.
C). Customers can mix HDDs and flash modules within the same array:
Pure Storage arrays are all-flash and do not support mixing HDDs and flash modules. This is not a valid option.
D). Customers can add a shelf with an Evergreen//One subscription:
With Evergreen//One, customers can non-disruptively add new shelves or upgrade their arrays to take advantage of newer, denser storage technologies without rebuying existing storage. This is the correct answer.
Recommendation:
The correct answer is
D). Customers can add a shelf with an Evergreen//One subscription.
Reference: Evergreen//One Program Overview:
Evergreen//One
Explains the benefits of Evergreen//One, including non-disruptive upgrades and capacity expansion.
FlashArray Expansion Shelves:
FlashArray Expansion Shelves
Details the process of adding shelves to increase storage capacity.

NEW QUESTION # 18

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