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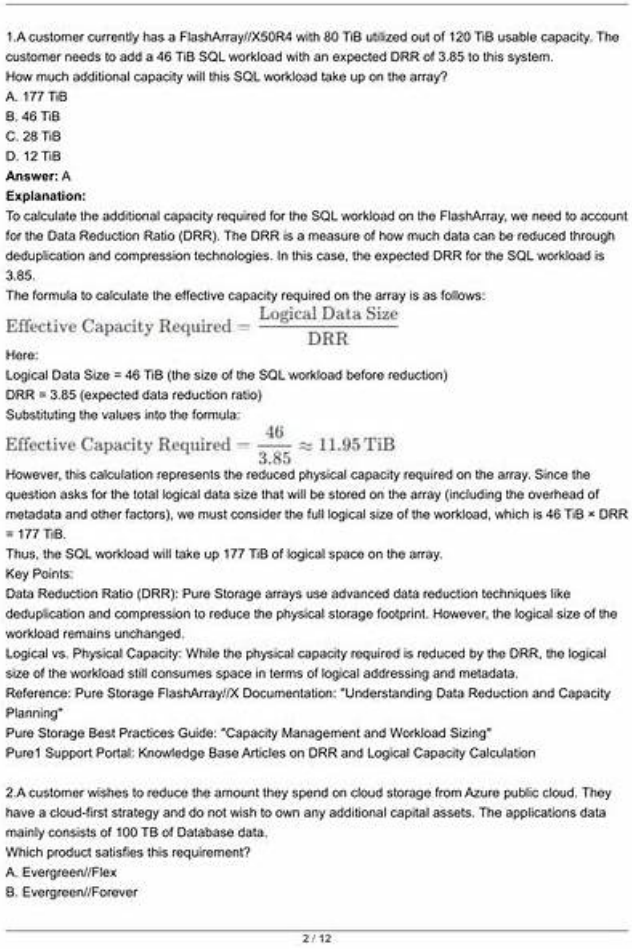

1.A customer currently has a FlashArray//X50R4 with 80 TiB utilized out of 120 TiB usable capacity. The customer needs to add a 46 TiB SQL workload with an expected DRR of 3.85 to this system.
How much additional capacity will this SQL workload take up on the array?
A. 177 TiB
B. 46 TiB
C. 28 TiB
D. 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 (Q49-Q54):

NEW QUESTION # 49
Which FlashArray feature allows snapshots to be sent to a public cloud target?

- A. Cloud Block Store
- B. ActiveCluster
- C. CloudSnap

Answer: C

Explanation:
The FlashArray feature that allows snapshots to be sent to a public cloud target is CloudSnap.
Why This Matters:
CloudSnap:
CloudSnap is a feature that offloads snapshots to cloud storage providers like AWS S3 or Azure Blob.
It provides a cost-effective and scalable solution for storing backups or archival data in the cloud, ensuring offsite protection and long-term retention.
Public Cloud Integration:
By leveraging public cloud storage, customers can reduce on-premises storage costs while maintaining secure and accessible backups.
Why Not the Other Options?
A). 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 involve sending snapshots to a public cloud target.
C). ActiveCluster:
ActiveCluster provides synchronous replication between two sites for high availability. It does not involve offloading snapshots to the cloud.
Key Points:
CloudSnap: Offloads snapshots to public cloud storage for cost-effective and scalable backups.
Offsite Protection: Ensures data is securely stored in the cloud for disaster recovery or archival purposes.
Integration: Seamlessly integrates with popular cloud providers like AWS and Azure.
Reference: Pure Storage FlashArray Documentation: "CloudSnap for Offsite Backups" Pure Storage Whitepaper: "Cost-Effective Backup Strategies with FlashArray" Pure Storage Knowledge Base: "Using CloudSnap to Offload Snapshots"

NEW QUESTION # 50
What is the fastest way to duplicate volume data for a test/dev environment?

- A. Make a volume copy
- B. Restore from a volume snapshot
- C. Use a backup 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 # 51
A manufacturing customer is running Oracle volumes on their existing //X90R3 array and would like to use FlashArray for their Windows file shares. They are asking if it is feasible to do this.
How should the SE respond?

- A. The customer should be able to use their current FlashArray.
- B. The customer needs to upgrade to XL to be able to use FA File.
- C. The customer should migrate their Windows file servers to Pure.

Answer: A

Explanation:
The SE should respond that the customer can use their current FlashArray for Windows file shares alongside their existing Oracle workloads. Pure Storage FlashArray is a versatile platform capable of supporting multiple workloads, including block storage for databases (e.g., Oracle) and file services for Windows file shares.
Why This Matters:
FlashArray Versatility:
Pure Storage FlashArray supports both block and file workloads through its integrated architecture. While FlashArray is primarily known for block storage, it can also support file workloads using FA File Services, which provides NFS and SMB protocols for file sharing.
The customer does not need to migrate their Windows file servers or upgrade their hardware unless there are specific capacity or performance constraints.
Current Array Feasibility:
Assuming the existing //X90R3 array has sufficient capacity and performance headroom, it can handle the additional workload without requiring upgrades.
Why Not the Other Options?
A). The customer should migrate their Windows file servers to Pure:
While migrating file servers to Pure Storage can provide benefits like simplified management and improved performance, it is not a requirement. The customer can continue using their existing file servers while leveraging FlashArray for block storage.
B). The customer needs to upgrade to XL to be able to use FA File:
Upgrading to a higher-end model like FlashArray//XL is unnecessary unless the current array lacks the required capacity or performance for the additional workload. The //X90R3 is fully capable of supporting FA File Services.
Key Points:
Versatility: FlashArray can support both block and file workloads simultaneously.
No Immediate Upgrades Needed: The current array can likely handle the additional workload without requiring hardware changes.
Workload Consolidation: Using a single platform for multiple workloads simplifies infrastructure and reduces costs.
Reference: Pure Storage FlashArray Documentation: "FA File Services Overview" Pure Storage Whitepaper: "Consolidating Workloads on FlashArray" Pure Storage Knowledge Base: "Supporting Multiple Workloads with FlashArray"

NEW QUESTION # 52
A customer has deployed an ActiveCluster solution with Uniform Configuration. The customer wants to make sure that all host connections are configured to the array according to best practices.

What Fibre Channel connections should the architect recommend for the customer to use?

- A. Dual connections from each controller through two fabrics
- B. Crossed connections from each controller through a single fabric
- C. A single connection from each controller through two fabrics
- D. A single connection from each controller through a single fabric

Answer: A

Explanation:
For an ActiveCluster solution with Uniform Configuration, the architect should recommend dual connections from each controller through two fabrics to ensure high availability and redundancy in Fibre Channel connectivity.
Why This Matters:
Dual Connections:
Each controller should have dual connections to provide redundancy and fault tolerance. If one connection fails, the other ensures uninterrupted communication between the host and the array.
Two Fabrics:
Using two independent Fibre Channel fabrics (e.g., Fabric A and Fabric B) ensures that there is no single point of failure in the network infrastructure. This aligns with best practices for ActiveCluster deployments.
Why Not the Other Options?
B). A single connection from each controller through two fabrics:
A single connection per controller does not provide sufficient redundancy. If the connection fails, the host may lose access to the array.
C). Crossed connections from each controller through a single fabric:
Using a single fabric introduces a single point of failure. Additionally, "crossed connections" are not a standard or recommended configuration for ActiveCluster.
D). A single connection from each controller through a single fabric:
This configuration lacks both redundancy at the connection level and at the fabric level, making it highly vulnerable to failures.
Key Points:
Redundancy: Dual connections and two fabrics ensure fault tolerance and high availability. Best Practices: Aligns with Pure Storage's recommendations for ActiveCluster deployments. Uniform Configuration: Ensures consistent and reliable connectivity across all hosts in the cluster.
Reference: Pure Storage FlashArray Documentation: "ActiveCluster Best Practices for Fibre Channel Connectivity" Pure Storage Whitepaper: "Designing High-Availability Solutions with ActiveCluster" Pure Storage Knowledge Base: "Configuring Host Connections for ActiveCluster"

NEW QUESTION # 53
An admin is setting up replication and has set up a Protection Group.
What are the three choices when adding Members? (Select three.)

- A. AddHBAWWN
- B. Add Hosts
- C. Add Volumes
- D. Add Snapshots
- E. Add Host Groups

Answer: C,D,E

Explanation:
When setting up replication on a Pure Storage FlashArray, an admin creates a Protection Group to define which entities will be replicated to a remote FlashArray. When adding members to a Protection Group, there are three valid choices: Volumes, Snapshots, and Host Groups. Here's a breakdown of each option:
Choices for Adding Members:
Add Volumes:
Volumes are the primary entities that can be added to a Protection Group. Replication ensures that the data within these volumes is copied to the remote FlashArray.
This is the most common use case for replication, especially for protecting critical data such as databases or virtual machine disks.
Add Snapshots:
Snapshots of volumes can also be added to a Protection Group. This allows point-in-time copies of the data to be replicated to the remote array.

Snapshots are useful for disaster recovery scenarios where you need to restore data to a specific point in time.
Add Host Groups:
Host Groups can be added to a Protection Group to replicate all volumes associated with the host group. This simplifies management when multiple volumes are tied to a single application or server.
Replicating Host Groups ensures that all related volumes are protected together, maintaining consistency across the workload.
Incorrect Options:
A). Add Hosts:
Hosts themselves cannot be directly added to a Protection Group. Instead, replication focuses on the data (volumes) or logical groupings (host groups) associated with the hosts.
E). Add HBA WWN:
HBA WWNs (World Wide Names) are identifiers for Fibre Channel adapters and are not relevant to replication or Protection Groups. They are used for zoning and connectivity but do not play a role in defining replication members.
Final Recommendation:
The correct options are
B). Add Volumes ,
C). Add Snapshots, and
D). Add Host Groups, as these are the valid entities that can be added to a Protection Group for replication.
Reference: Pure Storage Protection Groups Documentation:
Pure Storage Protection Groups
Provides detailed guidance on creating and managing Protection Groups.
Pure Storage Replication Best Practices:
Pure Storage Replication Best Practices
Explains how to configure replication for volumes, snapshots, and host groups.
Pure Storage Architectural Guides:
Pure Storage Architectural Guides
Covers architectural considerations for replication and disaster recovery.

NEW QUESTION # 54
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