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Pure Storage FlashArray Architect Associate Sample Questions (Q46-Q51):

NEW QUESTION # 46
An admin is setting up replication and has set up a Protection Group.
What are the three choices when adding Members? (Select three.)

- A. Add Host Groups
- B. Add Snapshots

- C. AddHBAWWN
- D. Add Volumes
- E. Add Hosts

Answer: A,B,D

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 # 47

Which FlashArray feature best protects local snapshots from ransomware attacks?

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

Answer: A

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 # 48
A customer is in the very early stages of designing a storage solution at a greenfield site.
They wish to use NVMe-TCP connectivity and require approximately:
* 100 Gbps of consistent raw network throughput between the FlashArray and the dedicated SAN switches.
* The dedicated SAN switches support up to 25 Gbps connectivity.
What is the minimum number of Ethernet ports in total they should connect from the FlashArray to the SAN switches while still ensuring resiliency?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: C

Explanation:
To achieve 100 Gbps of consistent raw network throughput between the FlashArray and the dedicated SAN switches, while ensuring resiliency, the customer must connect a sufficient number of Ethernet ports from the FlashArray to the SAN switches.
Given that the dedicated SAN switches support up to 25 Gbps connectivity per port, the calculation is as follows:
Throughput Requirement:
The customer requires 100 Gbps of raw throughput.
Each Ethernet port provides 25 Gbps of bandwidth.
Number of Ports Needed:
To meet the 100 Gbps requirement:
Resiliency Requirement:
Resiliency ensures that the solution can tolerate failures (e.g., switch or link failures). To achieve this, the customer must double the number of ports to provide redundant paths.
Therefore, the total number of ports required is:4×2=8ports.
Why Not the Other Options?
B).2:
Two ports would only provide 50 Gbps of raw throughput (2 × 25 Gbps), which does not meet the 100 Gbps requirement.
Additionally, there would be no redundancy, violating the resiliency requirement.
C).4:
Four ports would meet the 100 Gbps throughput requirement but would lack redundancy, making the solution vulnerable to failures.
D).16:
Sixteen ports would exceed the required throughput and redundancy, resulting in unnecessary costs and complexity.
Key Points:
Throughput Calculation: Ensure the total bandwidth meets the 100 Gbps requirement.
Resiliency: Double the number of ports to provide redundant paths for high availability.
Optimization: Use the minimum number of ports that satisfy both throughput and resiliency requirements.
Reference: Pure Storage FlashArray Documentation: "Network Design and Configuration Best Practices" Pure Storage Whitepaper: "NVMe-TCP Connectivity and Performance Optimization" Pure Storage Knowledge Base: "Calculating Required Network Ports for FlashArray"

NEW QUESTION # 49

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 attach third-party storage arrays to the Pure Storage array.
- C. Customers can mix HDDs and flash modules within the same array.
- D. Customers can add a shelf with a Evergreen//One subscription.

Answer: D

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 # 50

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. 12 TiB
- C. 28 TiB
- D. 46 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:
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 # 51

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