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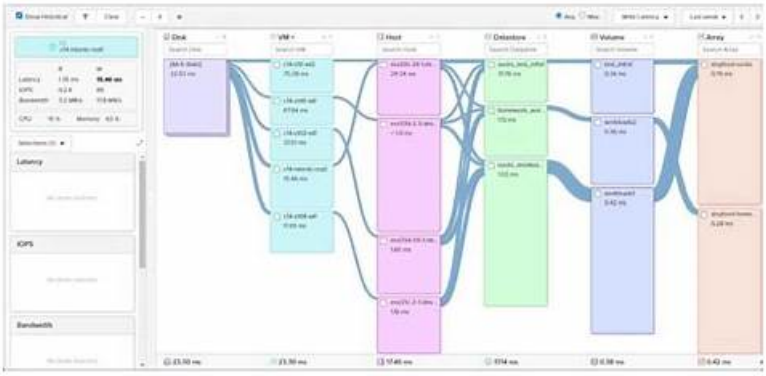

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Pure Storage FlashArray Architect Associate Sample Questions (Q14-Q19):

NEW QUESTION # 14
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: A

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 # 15
An existing customer wants a new set of arrays with the following characteristics:
* Business critical workload that requires sub millisecond response times
* Synchronous replication configured to their secondary site
* Offload snapshots to a third location where they do not have a FlashArray Which solution will meet the customer's needs?
FlashArray//Xs with ActiveDR and CloudSnap

- A. FlashArray//Cs with ActiveCluster and Snapshot Replication
- B. FlashArray//Xs with ActiveCluster and CloudSnap
- C. FlashArray//Cs with ActiveDR and Snapshot Replication

Answer: B

Explanation:
The customer has the following requirements:
Business-critical workload that requires sub-millisecond response times Synchronous replication configured to their secondary site Offload snapshots to a third location where they do not have a FlashArray The best solution to meet these needs is FlashArray//Xs with ActiveCluster and CloudSnap.
Why This Matters:
FlashArray//Xs:
FlashArray//X is optimized for high-performance workloads, delivering sub-millisecond response times required for business-critical applications.
ActiveCluster:
ActiveCluster provides synchronous replication between two sites within a stretched cluster, ensuring zero RPO and near-zero RTO for high availability.
CloudSnap:

CloudSnap offloads snapshots to cloud storage (e.g., AWS S3 or Azure Blob), enabling disaster recovery or archival at a third location without requiring an additional FlashArray.
Why Not the Other Options?
B). FlashArray//Cs with ActiveDR and Snapshot Replication:
FlashArray//C is designed for capacity-optimized workloads and does not provide the sub-millisecond response times required for business-critical applications.
ActiveDR provides asynchronous replication, which does not meet the requirement for synchronous replication.
C). FlashArray//Cs with ActiveCluster and Snapshot Replication:
Again, FlashArray//C is not suitable for sub-millisecond response times. Additionally, snapshot replication to a third location is less efficient than CloudSnap for offloading data to the cloud.
Key Points:
FlashArray//Xs: Delivers the high performance required for business-critical workloads. ActiveCluster: Ensures synchronous replication for high availability across two sites. CloudSnap: Provides cost-effective offsite protection by offloading snapshots to the cloud.
Reference: Pure Storage FlashArray Documentation: "ActiveCluster with CloudSnap" Pure Storage Whitepaper: "Disaster Recovery Strategies with FlashArray" Pure Storage Knowledge Base: "Using Protection Groups in Stretched Pods"

NEW QUESTION # 16
Which two features are specific to the Evergreen//Forever Program and are NOT included with Evergreen//Foundation? (Choose two.)

- A. Pro Deployment
- B. Controller Upgrades
- C. Upgrade Always
- D. Capacity Consolidation

Answer: B,C

Explanation:
The Evergreen//Forever program is Pure Storage's premium subscription offering, providing continuous upgrades and enhancements to ensure customers always have access to the latest technology. In contrast, Evergreen//Foundation is a lower-tier subscription with limited benefits.
Here's an analysis of the features:
Correct Features:
A). Controller Upgrades:
Controller upgrades are a key feature of Evergreen//Forever, allowing customers to upgrade their FlashArray controllers non-disruptively to newer generations.
This feature is not included in Evergreen//Foundation.
D). Upgrade Always:
"Upgrade Always" ensures that customers can continuously upgrade their hardware and software without additional costs.
This is a hallmark of Evergreen//Forever and is not available in Evergreen//Foundation.
Incorrect Features:
B). Pro Deployment:
Pro Deployment services are available across all Evergreen tiers, including Evergreen//Foundation. Therefore, this is not specific to Evergreen//Forever.
C). Capacity Consolidation:
Capacity consolidation is a general benefit of Pure Storage arrays and is not exclusive to Evergreen//Forever.
It is also available in Evergreen//Foundation.
Final Recommendation:
The correct answers are
A). Controller Upgrades and
D). Upgrade Always, as these are specific to Evergreen//Forever and not included in Evergreen//Foundation.
Reference: Evergreen//Forever Program Overview:
Evergreen//Forever
Explains the benefits and features of Evergreen//Forever.
Evergreen Subscription Tiers Comparison:
Evergreen Tiers
Compares the features of Evergreen//Forever and Evergreen//Foundation.

NEW QUESTION # 17
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 the VM workloads and ActiveDR for the database workload.
- B. ActiveDR should be used for both workloads.
- C. ActiveDR should be used for the VM workloads and ActiveCluster for the database workload.
- D. ActiveCluster should be used for both workloads.

Answer: A

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 # 18
Refer to the exhibit.

What is the total amount of usable storage space consumed on this FlashArray system?

- A. 4.36 T
- B. 5.58 T
- C. 1.22 T
- D. 3.87 T

Answer: D

Explanation:
Why This Matters:
Usable Storage Space Consumed:
The "usable storage space consumed" refers to the actual physical capacity used on the array after accounting for RAID overhead but before applying data reduction techniques like deduplication and compression.
This value represents the raw space utilized by the data stored on the array, excluding any logical space savings from data reduction.
Why Not the Other Options?
B). 5.58 T:
This value likely represents the logical capacity provisioned or consumed after applying data reduction techniques (e.g., deduplication and compression). However, the question specifically asks for the usable storage space consumed, which excludes logical space savings.
C). 1.22 T:
This value might represent the raw capacity of the drives or some other metric unrelated to the usable storage space consumed. It does not align with the definition of usable storage space.
D). 4.36 T:
This value could represent an intermediate calculation or another metric, but it does not match the usable storage space consumed as shown in the exhibit.
Key Points:
Usable Storage Space Consumed: Represents the physical capacity used on the array after RAID overhead but before data reduction.
Logical vs. Physical Capacity: Logical capacity reflects space savings from deduplication and compression, while usable storage space reflects the actual physical usage.
Exhibit Analysis: Carefully interpret the metrics provided in the exhibit to identify the correct value.
Reference: Pure Storage FlashArray Documentation: "Understanding Array Capacity Metrics" Pure Storage Whitepaper: "Capacity Management and Data Reduction" Pure Storage Knowledge Base: "What is Usable Space vs. Raw Space?"

NEW QUESTION # 19
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