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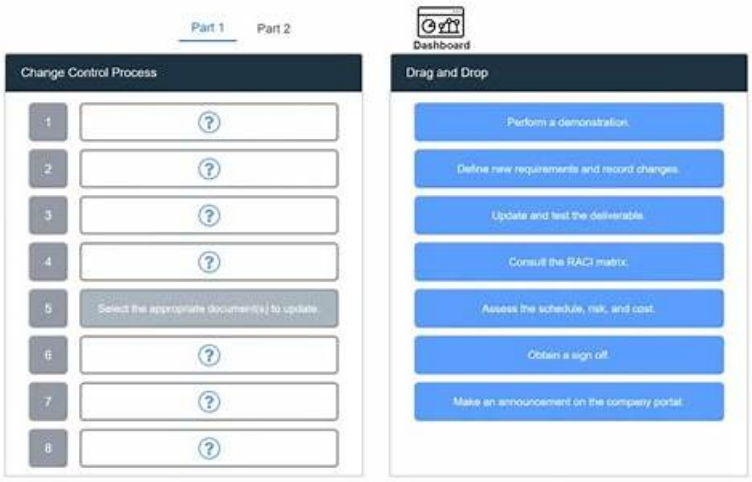

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Pure Storage FlashArray Architect Associate Sample Questions (Q30-Q35):

NEW QUESTION # 30
The customer asks if the FlashArray is suitable for a cloud-native application that utilizes containers and Kubernetes.
Which response addresses this question?

- A. This is supported via Pure's Portworx offering.
- B. This is supported via an installable CSI provider specifically for the FlashArray.
- C. This is supported and Pure uses a software layer that is only compatible with DAS storage in Kubernetes.
- D. This is not supported with FlashArray and this application data will need to be stored on a different array.

Answer: A

Explanation:

The FlashArray is suitable for cloud-native applications that utilize containers and Kubernetes, but the best way to address this use case is through Pure Storage's Portworx offering.
Why This Matters:
Portworx:
Portworx is a container storage and data management platform specifically designed for Kubernetes and cloud-native applications. It integrates seamlessly with FlashArray to provide persistent storage, data protection, and advanced features like snapshots, replication, and disaster recovery for containerized workloads.
Portworx ensures high performance, scalability, and reliability for stateful applications running in Kubernetes environments.
Why Not the Other Options?
A). This is not supported with FlashArray and this application data will need to be stored on a different array:
This statement is incorrect. FlashArray is fully capable of supporting cloud-native applications when paired with the right tools, such as Portworx.
B). This is supported via an installable CSI provider specifically for the FlashArray:
While FlashArray does support a Container Storage Interface (CSI) driver, it is a basic integration and does not provide the advanced features and capabilities offered by Portworx for Kubernetes environments.
D). This is supported and Pure uses a software layer that is only compatible with DAS storage in Kubernetes:
This statement is incorrect. Pure Storage solutions are compatible with both direct-attached storage (DAS) and external storage arrays like FlashArray.
Key Points:
Portworx: The recommended solution for integrating FlashArray with Kubernetes and containerized applications.
Advanced Features: Provides persistent storage, data protection, and scalability for cloud-native workloads.
Integration: Ensures seamless compatibility between FlashArray and Kubernetes environments.
Reference: Pure Storage Portworx Documentation: "Integrating Portworx with FlashArray" Pure Storage Whitepaper: "Cloud-Native Storage Solutions with Portworx" Pure Storage Knowledge Base: "Best Practices for Kubernetes and FlashArray Integration"

NEW QUESTION # 31
A potential customer has a use case where they need to use a stretched cluster for high availability and also require a third copy of their data in a remote geographic location.
Which replication method should be recommended?

- A. Fan-out asynchronous snapshot replication
- B. ActiveDR with periodic snapshot replication
- C. CloudSnap to an offload target
- D. ActiveCluster with asychronous snapshot replication

Answer: D

Explanation:
The customer requires a storage solution that supports a stretched cluster for high availability and also maintains a third copy of their data in a remote geographic location. The best replication method to recommend is ActiveCluster with asynchronous snapshot replication.
Why This Matters:
ActiveCluster:
ActiveCluster provides synchronous replication between two sites within a stretched cluster, ensuring zero RPO and near-zero RTO for high availability.
It is ideal for scenarios where applications require continuous access to data across two locations.
Asynchronous Snapshot Replication:
Asynchronous replication extends the disaster recovery strategy by replicating snapshots to a third site. This ensures an additional layer of protection against regional failures.
Why Not the Other Options?
A). CloudSnap to an offload target:
CloudSnap is used to offload snapshots to cloud storage (e.g., AWS S3 or Azure Blob). While it satisfies the requirement for a third copy, it does not integrate with ActiveCluster for high availability in a stretched cluster.
B). Fan-out asynchronous snapshot replication:
Fan-out replication involves sending snapshots to multiple targets asynchronously. However, it does not provide the synchronous replication required for a stretched cluster.
C). ActiveDR with periodic snapshot replication:
ActiveDR is designed for asynchronous replication and failover/failback scenarios but does not support synchronous replication for a stretched cluster.

Key Points:
ActiveCluster: Ensures high availability with synchronous replication in a stretched cluster.
Async Replication: Adds a third-site replication target for comprehensive disaster recovery.
Integrated Solution: Combines high availability and disaster recovery into a single architecture.
Reference: Pure Storage FlashArray Documentation: "ActiveCluster with Async Replication" Pure Storage Whitepaper: "Disaster Recovery Strategies with FlashArray" Pure Storage Knowledge Base: "Using Protection Groups in Stretched Pods"

NEW QUESTION # 32
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 # 33
A potential healthcare customer wants to move to a modern storage array for their medical records database. They need the fastest possible array as their workload is highly transactional.
Which solution should an SE recommend?

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

- C. FlashArray//XL

Answer: C

Explanation:
To meet the healthcare customer's requirement for the fastest possible array for a highly transactional medical records database, FlashArray//XL is the optimal choice.
Here's why:
Analysis of FlashArray Models:
FlashArray//XL:
The FlashArray//XL is Pure Storage's highest-performance all-flash storage array, designed for mission-critical, high-transaction workloads that demand ultra-low latency and maximum throughput.
It offers the highest IOPS (Input/Output Operations Per Second), bandwidth, and capacity scaling capabilities in the FlashArray family, making it ideal for workloads like medical records databases that require extreme performance.
With its advanced NVMe architecture and DirectFlash Modules, FlashArray//XL delivers sub-millisecond latency and exceptional performance consistency, which are critical for transactional workloads.
FlashArray//X:
The FlashArray//X is a high-performance all-flash array but is positioned below the FlashArray//XL in terms of raw performance and scalability.
While it is suitable for most enterprise workloads, it may not provide the same level of performance as FlashArray//XL for highly transactional databases with demanding I/O requirements.
FlashArray//C:
The FlashArray//C is optimized for capacity and cost efficiency rather than raw performance.
It uses QLC NAND flash technology, which is more cost-effective but has lower endurance and performance compared to the TLC NAND used in FlashArray//X and FlashArray//XL.
This makes FlashArray//C unsuitable for highly transactional workloads like a medical records database.
Recommendation:
Given the customer's need for the "fastest possible array" and the highly transactional nature of their workload, FlashArray//XL is the best recommendation. Its ability to deliver consistent, low-latency performance at scale ensures that the medical records database will perform optimally under heavy transactional loads.
Reference: FlashArray//XL Product Overview:
Pure Storage FlashArray//XL
Details the performance and use cases for FlashArray//XL.
FlashArray//X Product Overview:
Pure Storage FlashArray//X
Explains the capabilities of FlashArray//X for enterprise workloads.
FlashArray//C Product Overview:
Pure Storage FlashArray//C
Highlights the cost-efficient design of FlashArray//C for capacity-focused workloads.

NEW QUESTION # 34
What causes a disruption to Pure FlashArray stateless controller operations or performance, if there is a single array?

- A. Physically relocating an array
- B. Moving from a SAS- to NVMe-based shelf
- C. Upgrade Purity//FA code
- D. Replacing a controller 10 module

Answer: A

Explanation:
Among the listed options, physically relocating an array is the action most likely to cause a disruption to Pure FlashArray stateless controller operations or performance.
Why This Matters:
Physical Relocation:
Moving a FlashArray involves powering down the system, disconnecting cables, and transporting the hardware to a new location.
This process inherently disrupts operations and performance until the array is reinstalled and brought back online.
Even with proper planning, physical relocation introduces downtime and potential risks (e.g., hardware damage during transport).
Why Not the Other Options?
A). Replacing a controller I/O module:

FlashArray controllers are designed with redundancy and hot-swappable components. Replacing an I/O module typically does not cause significant disruptions, as the other controller continues to handle operations.
C). Moving from a SAS- to NVMe-based shelf:
Transitioning to NVMe-based shelves is a planned upgrade that does not inherently disrupt operations. The array can continue functioning during the transition, though performance may vary temporarily.
D). Upgrade Purity//FA code:
Upgrading Purity//FA (the operating system for FlashArray) is a non-disruptive process. FlashArray supports rolling upgrades, ensuring continuous availability and performance during the update.
Key Points:
Physical Relocation: Causes unavoidable downtime and operational disruption.
Redundancy and Non-Disruptive Operations: FlashArray is designed to minimize disruptions for tasks like module replacement and software upgrades.
Planning Required: Physical relocation requires careful planning to minimize risks and downtime.
Reference: Pure Storage FlashArray Documentation: "Maintenance and Relocation Best Practices" Pure Storage Whitepaper: "Non-Disruptive Operations with FlashArray" Pure Storage Knowledge Base: "Minimizing Disruptions During Array Maintenance"

NEW QUESTION # 35
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