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Pure Storage FlashArray Architect Associate Sample Questions (Q51-Q56):

NEW QUESTION # 51

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

Answer: D

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 # 52

A customer is looking for a new storage system with the following requirements:

- * 20 TB of file shares
- * Support 800 TB of Wols
- * Low cost per GB
- * CloudSnap utilization in the future

Which Pure Storage platform should be recommended?

- A. FlashArray//C
- B. FlashBlade//S
- C. Cloud Block Store
- D. FlashArray//X

Answer: A

Explanation:

The customer is looking for a storage system that supports 20 TB of file shares, 800 TB of workloads, has a low cost per GB, and can utilize CloudSnap in the future. The best recommendation is FlashArray//C.

Why This Matters:

FlashArray//C:

FlashArray//C is designed for capacity-optimized workloads, making it ideal for use cases requiring large amounts of storage at a lower cost per GB compared to higher-performance arrays like FlashArray//X.

It supports QLC flash technology, which provides high density and cost efficiency for less performance-intensive workloads.

CloudSnap is fully supported on FlashArray//C, enabling snapshots to be offloaded to public cloud storage for disaster recovery or archival purposes.

Why Not the Other Options?

A). FlashArray//X:

FlashArray//X is optimized for high-performance workloads, such as databases and mission-critical applications. While it supports CloudSnap, it is more expensive and not the most cost-effective solution for large-scale capacity needs.

C). 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 meet the requirement for on-premises storage with file shares and CloudSnap utilization.

D). FlashBlade//S:

FlashBlade//S is designed for file and object storage but is typically used for high-performance, unstructured data workloads. It is more expensive than FlashArray//C and not necessary for this use case.

Key Points:

FlashArray//C: Provides high-density storage at a low cost per GB, ideal for large-scale workloads.
CloudSnap Support: Enables offloading snapshots to the cloud for disaster recovery or archival purposes.
Cost Efficiency: Balances performance and cost, making it suitable for file shares and large datasets.
Reference: Pure Storage FlashArray//C Documentation: "Use Cases for FlashArray//C" Pure Storage Whitepaper: "Optimizing Storage Costs with FlashArray//C" Pure Storage Knowledge Base: "Choosing the Right FlashArray Model for Your Workload"

NEW QUESTION # 53

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

Answer: C

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 # 54

A customer wants to have more insight into and control of their Pure Storage FlashArray and VMware environment from a single user interface.

What does the customer need to do to enable this capability in their environment?

- A. Log in to the FlashArray GUI and install the plugin for vSphere Client
- B. Ensure all VMware API for Array Integration (VAAI) primitives are enabled
- C. Install Pure Storage SRA for VMware Site Recovery Manager (SRM)
- **D. Configure FlashArray Management Pack for vRealize Operations Manager**

Answer: D

Explanation:

To gain more insight and control over their Pure Storage FlashArray and VMware environment from a single user interface, the customer should configure the FlashArray Management Pack for vRealize Operations Manager (vROps).

Here's why:

Analysis of Options:

A). Ensure all VMware API for Array Integration (VAAI) primitives are enabled:

VAAI is a set of APIs that offloads storage tasks from the ESXi host to the storage array, improving performance and efficiency. However, it does not provide a unified interface for managing both FlashArray and VMware environments.

B). Log in to the FlashArray GUI and install the plugin for vSphere Client:

While the FlashArray plugin for vSphere Client provides some integration, such as provisioning and monitoring FlashArray volumes directly from the vSphere Client, it does not offer comprehensive visibility and control over both environments from a single interface.

C). Configure FlashArray Management Pack for vRealize Operations Manager:

The FlashArray Management Pack for vROps integrates Pure Storage FlashArray with VMware vRealize Operations Manager, enabling centralized monitoring, analytics, and management of both environments from a single pane of glass.

This solution provides deep insights into storage performance, capacity utilization, and health metrics, making it the ideal choice for the customer's requirement.

D). Install Pure Storage SRA for VMware Site Recovery Manager (SRM):

The Pure Storage Storage Replication Adapter (SRA) is used for disaster recovery orchestration with VMware SRM. It does not provide a unified interface for managing FlashArray and VMware environments.

Recommendation:

The correct answer is C. Configure FlashArray Management Pack for vRealize Operations Manager, as it fulfills the customer's need for a single user interface to manage both FlashArray and VMware environments.

Reference: Pure Storage FlashArray Management Pack for vROps Documentation:

FlashArray Management Pack for vROps

Explains how to integrate FlashArray with vROps for unified monitoring and management.

Pure Storage VMware Integration Overview:

Pure Storage VMware Integration

Provides an overview of Pure Storage's VMware integration solutions.

NEW QUESTION # 55

Refer to the exhibit.

□ Which FlashArray controller(s) does the exhibit show?

- A. Top: CTO, Bottom: CT1
- B. Top: Primary, Bottom: Secondary
- C. Top: CT1, Bottom: CT2

Answer: C

Explanation:

Exhibit controllers of a Pure Storage FlashArray, specifically labeled as CT1 (top) and CT2 (bottom).

This labeling is consistent with Pure Storage's naming convention for its controllers.

Why This Matters:

Controller Identification:

Pure Storage FlashArray controllers are typically labeled as CT1 and CT2 to distinguish between the two controllers in an active/active architecture.

Both controllers work together to provide high availability and redundancy, ensuring seamless operation even if one controller is offline for maintenance or upgrades.

Active/Active Architecture:

In an active/active design, both controllers share the workload equally. If one controller is taken offline, the other seamlessly handles all I/O operations without impacting performance or availability.

Why Not the Other Options?

B). Top: Primary, Bottom: Secondary:

Pure Storage does not use "Primary" and "Secondary" labels for its controllers. Instead, it uses specific identifiers like CT1 and CT2 to refer to the controllers.

C). Top: CTO, Bottom: CT1:

The label "CTO" is not a valid designation for FlashArray controllers. Pure Storage consistently uses CT1 and CT2 to identify the controllers.

Key Points:

Controller Labels: Pure Storage FlashArray controllers are labeled as CT1 and CT2.

Active/Active Design: Both controllers operate simultaneously to ensure high availability and performance.

Redundancy: The dual-controller architecture provides fault tolerance and minimizes downtime during maintenance or failures.

Reference: Pure Storage FlashArray Documentation: "Understanding FlashArray Controller Architecture" Pure Storage Knowledge

Base: "Identifying FlashArray Controllers" Pure Storage Whitepaper: "Active/Active Controller Design for High Availability"

NEW QUESTION # 56

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