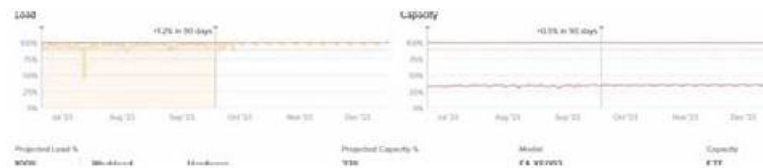


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Pure Storage FlashArray Architect Associate Sample Questions (Q54-Q59):

NEW QUESTION # 54

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. Cloud Block Store
- B. Evergreen/Forever
- C. Evergreen/Flex
- D. Portworx DBaaS

Answer: A

Explanation:

The customer has a cloud-first strategy and does not wish to own additional capital assets, meaning they are looking for a solution that operates entirely within the public cloud without requiring on-premises hardware. Additionally, their primary goal is to reduce cloud storage costs while managing a large volume of database data (100 TB).

Cloud Block Store (CBS) is the ideal solution for this requirement. CBS is a software-defined block storage solution that runs natively in the public cloud (e.g., AWS or Azure). It provides enterprise-grade storage features like deduplication, compression, and thin provisioning, which help optimize storage usage and reduce costs. By leveraging CBS, the customer can efficiently manage their database workloads in the cloud while minimizing storage expenses.

Why Not the Other Options?

A). Evergreen/Flex: This is a subscription-based model for on-premises FlashArray hardware. Since the customer does not want to own any additional capital assets, this option does not align with their cloud-first strategy.

B). Evergreen/Forever: Similar to Evergreen/Flex, this is an on-premises solution that involves hardware ownership, which does not meet the customer's requirements.

D). Portworx DBaaS: While Portworx is a containerized storage solution for databases, it is primarily designed for Kubernetes

environments and does not directly address the need to reduce cloud storage costs for traditional database workloads.

Key Points:

Cloud Block Store: A cloud-native block storage solution that reduces storage costs through advanced data reduction techniques.

Cloud-First Strategy: CBS aligns perfectly with the customer's desire to avoid capital expenditures and operate entirely within the public cloud.

Reference: Pure Storage Cloud Block Store Documentation: "Deploying and Managing Cloud Block Store in Azure" Pure Storage Whitepaper: "Optimizing Cloud Costs with Cloud Block Store" Pure Storage Best Practices Guide: "Database Workloads in the Public Cloud"

NEW QUESTION # 55

Which FlashArray feature best protects local snapshots from ransomware attacks?

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

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 # 56

A Storage Administrator has two //X50R3 FlashArrays. The two FlashArrays are located in different data centers with a network link between them. The ethernet link between data centers has a latency of 35 ms.

Which Purity feature will provide protection against a site failure with the lowest recovery point?

- A. ActiveCluster
- B. ActiveDR
- C. Snapshot replication
- D. Local snapshots

Answer: B

Explanation:

Given that the two FlashArrays are located in different data centers with a network link latency of 35 ms, the best Purity feature to provide protection against a site failure with the lowest recovery point is ActiveDR.

Why This Matters:

ActiveDR:

ActiveDR is an asynchronous replication solution designed for disaster recovery scenarios where the secondary site may be geographically distant (e.g., >10 ms latency).

It provides low RPOs (typically seconds to minutes) and supports fast failover and failback capabilities, ensuring minimal data loss and downtime.

With a 35 ms latency between sites, synchronous replication (e.g., ActiveCluster) is not feasible due to the high latency impacting performance.

Why Not the Other Options?

A). ActiveCluster:

ActiveCluster requires synchronous replication, which is only suitable for sites within a low-latency range (<10 ms). At 35 ms latency, ActiveCluster would cause significant performance degradation.

C). Snapshot replication:

Snapshot replication is asynchronous but does not provide the same level of failover and failback capabilities as ActiveDR. It is better suited for backup purposes rather than disaster recovery with low RPOs.

D). Local snapshots:

Local snapshots are useful for point-in-time recovery within a single array but do not protect against site failures.

Key Points:

ActiveDR: Ideal for asynchronous replication with low RPOs and fast failover/failback.

Latency Considerations: ActiveDR supports higher latencies (e.g., 35 ms) compared to synchronous solutions like ActiveCluster.

Disaster Recovery: Ensures protection against site failures with minimal data loss and downtime.

Reference: Pure Storage FlashArray Documentation: "ActiveDR for Disaster Recovery" Pure Storage Whitepaper: "Meeting RPO and RTO Requirements with FlashArray" Pure Storage Knowledge Base: "Choosing the Right Replication Solution for High Latency"

NEW QUESTION # 57

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

Answer: D

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 # 58

Refer to the exhibit.

The customer wants to add an additional 10 TB of test/dev workload to this array.
What should the SE recommend?

- A. Upgrade the controller to an //X90R3 to handle the additional workload.
- **B. The workload can be added, but the admin should continue monitoring performance and capacity.**
- C. Upgrade the 22 TB DirectFlash NVMe modules to a higher capacity to handle the additional workload.
- D. Add more DirectFlash NVMe modules to the expansion shelf to handle the additional capacity.

Answer: B

Explanation:

SE should recommend adding the 10 TB test/dev workload to the array while advising the admin to monitor performance and capacity. This recommendation assumes that the array has sufficient resources (e.g., available capacity, performance headroom) to handle the additional workload without requiring immediate upgrades or changes.

Why This Matters:

Current Array Capacity and Performance:

Pure Storage FlashArray is designed to efficiently handle workloads with advanced data reduction techniques (deduplication, compression, etc.) and high-performance NVMe storage.

If the array has sufficient unused capacity and performance headroom, adding a 10 TB test/dev workload is feasible without requiring hardware upgrades.

Monitoring:

After adding the workload, it is critical to monitor both performance metrics (e.g., latency, IOPS, throughput) and capacity utilization to ensure the array continues to meet SLAs and does not exceed its limits.

Why Not the Other Options?

A). Upgrade the controller to an //X90R3 to handle the additional workload:

Upgrading the controller is unnecessary unless the current controller is nearing its performance limits. Test/dev workloads are typically less demanding than production workloads, so this step would likely be premature.

B). Add more DirectFlash NVMe modules to the expansion shelf to handle the additional capacity:

Adding more NVMe modules is only necessary if the array is running out of physical capacity. If the array already has sufficient capacity, this step is not required.

C). Upgrade the 22 TB DirectFlash NVMe modules to a higher capacity to handle the additional workload:

Upgrading the NVMe modules to higher-capacity ones is a significant investment and is only justified if the array is consistently running out of capacity. For a 10 TB workload, this step is likely excessive.

Key Points:

Feasibility of Adding Workload: The array can likely handle the additional 10 TB workload without immediate upgrades.

Monitoring: Continuous monitoring ensures that performance and capacity remain within acceptable limits.

Cost Efficiency: Avoiding unnecessary upgrades or changes helps optimize costs while meeting the customer's needs.

Reference: Pure Storage FlashArray Documentation: "Capacity Planning and Workload Sizing" Pure Storage Whitepaper: "Best Practices for Managing Test/Dev Workloads" Pure Storage Knowledge Base: "Adding Workloads to FlashArray Without Disruption"

NEW QUESTION # 59

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