

Pure Storage FAAA_005 Test Centres: Pure Storage FlashArray Architect Associate - CertkingdomPDF Updated Download



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

NEW QUESTION # 46

Refer to the exhibit.

A customer is assessing the health of their FlashArray.

What should the customer discuss with their SE based on this information?

- **A. Adding a second shelf of NVMe DirectFlash modules**
- B. Upgrading the controller to the //X90R3 model
- C. Adding more network ports

Answer: A

Explanation:

Based on the exhibit (referenced via the link), the customer should discuss adding a second shelf of NVMe DirectFlash modules with their SE. This recommendation is based on the assumption that the exhibit indicates the array is nearing its capacity limits or requires additional storage to accommodate future growth.

Why This Matters:

Capacity Planning:

FlashArray uses DirectFlash Modules to provide high-performance, low-latency storage. If the array is approaching its physical capacity, adding a second shelf of NVMe modules is the most effective way to expand storage without requiring a full hardware upgrade.

This approach ensures the array can continue to meet the customer's growing storage needs while maintaining performance and reliability.

Scalability:

Pure Storage arrays are designed to scale seamlessly by adding expansion shelves. This allows customers to increase capacity without disrupting operations or replacing existing hardware.

Why Not the Other Options?

A). Upgrading the controller to the //X90R3 model:

Upgrading the controller is only necessary if the current controller is nearing its performance limits.

The exhibit does not indicate performance bottlenecks, so this step is likely unnecessary.

C). Adding more network ports:

Adding network ports is relevant for improving connectivity or bandwidth but does not address capacity concerns. If the array is running out of storage space, adding network ports will not resolve the issue.

Key Points:

Capacity Expansion: Adding a second shelf of NVMe modules provides additional storage capacity to support future growth.

Non-Disruptive Scaling: Expansion shelves can be added without downtime, ensuring continuous availability.

Cost Efficiency: Avoids unnecessary upgrades or replacements, optimizing costs while meeting capacity requirements.

Reference: Pure Storage FlashArray Documentation: "Expanding FlashArray Capacity with DirectFlash Modules" Pure Storage Whitepaper: "Scaling Storage with FlashArray Expansion Shelves" Pure Storage Knowledge Base: "Best Practices for Capacity Planning and Expansion"

NEW QUESTION # 47

During a controller upgrade of a Pure Storage FlashArray, what aspect of array design ensures there will be no tangible impact on performance?

- A. Stateful controller architecture
- B. Active/passive controller front-ends ports
- **C. Active/active controller architecture**
- D. Primary/secondary controller architecture

Answer: C

Explanation:

During a controller upgrade of a Pure Storage FlashArray, the active/active controller architecture ensures there will be no tangible impact on performance. This design allows both controllers to handle I/O operations simultaneously, so even if one controller is being upgraded, the other can continue processing workloads without interruption.

Why This Matters:

Active/Active Architecture: In an active/active design, both controllers share the workload equally. If one controller is taken offline for maintenance or upgrades, the remaining controller seamlessly handles all I/O operations.

This ensures continuous availability and consistent performance during upgrades, minimizing downtime and user impact.

Why Not the Other Options?

B). Stateful controller architecture:

While stateful architectures maintain session information, they do not inherently ensure no performance impact during upgrades. The key factor here is the active/active design.

C). Active/passive controller front-end ports:

In an active/passive design, only one controller is actively handling I/O at any given time. If the active controller is upgraded, the passive controller must take over, which can lead to temporary performance degradation.

D). Primary/secondary controller architecture:

Similar to active/passive, this design relies on a primary controller for all operations, making it less resilient during upgrades compared to active/active.

Key Points:

Active/Active Design: Ensures continuous I/O processing during upgrades.

Seamless Upgrades: Minimizes performance impact and downtime for users.

High Availability: Maintains consistent performance and reliability throughout the upgrade process.

Reference: Pure Storage FlashArray Documentation: "Controller Upgrade Process and Best Practices" Pure Storage Whitepaper: "Active/Active Controller Architecture" Pure Storage Knowledge Base: "Minimizing Impact During Controller Upgrades"

NEW QUESTION # 48

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

Answer: D

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 fallback 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 fallback 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/fallback.

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 # 49

Refer to the exhibit.

□ Which VM is running on the ESXi host with the lowest write latency?

- A. c14-s145-w11
- B. C14-s108-w11
- **C. c14-d51-w12**
- D. c14-s102-w11

Answer: C

Explanation:

Write Latency:

Write latency refers to the time it takes for a write operation to complete on the storage array. Lower write latency indicates better performance and faster response times for write-intensive workloads.

In Pure Storage arrays, write latency is typically measured in milliseconds (ms) and can be monitored using tools like Pure1 or Purity//FA performance metrics.

VM-to-Host Mapping:

Each VM runs on an ESXi host, and the write latency of the VM is influenced by the storage performance characteristics of the host it resides on.

To identify the VM with the lowest write latency, we must compare the write latency values for each VM listed in the exhibit.

NEW QUESTION # 50

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

Answer: C

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.

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