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Exam : FAAA_005

Title : Pure Storage FlashArray
Architect Associate

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>> FAAA_005權威考題 <<

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最新的 FlashBlade Architect Professional FAAA_005 免費考試真題 (Q18-Q23):

問題 #18

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

答案： B

解題說明：

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"

問題 #19

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**

答案： D

解題說明：

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: $4 \times 2 = 8$ ports.

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"

問題 #20

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

答案： D

解題說明：

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"

問題 #21

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

答案：C

解題說明：

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"

問題 #22

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

答案：C

解題說明：

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"

問題 #23

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