

100% Pass Quiz Accurate Pure Storage - FlashArray-Storage-Professional - Pure Certified FlashArray Storage Professional Test Questions

Pure Certified FlashArray Storage Professional

Question 1: FlashArray Architecture

What type of storage media is used in Pure Storage FlashArray systems?

- A. SATA HDDs
- B. NVMe SSDs
- C. LTO Tape
- D. SAS HDDs

Correct Answer: B. NVMe SSDs

Explanation: Pure Storage FlashArrays use high-performance NVMe-based SSDs, which deliver low latency and high throughput compared to traditional spinning disks.

Question 2: Data Reduction

Which technologies are used by FlashArray to reduce data footprint?

- A. Tiered Storage and RAID
- B. Data Deduplication and Compression
- C. Snapshot Mirroring
- D. Bit-level Replication

Correct Answer: B. Data Deduplication and Compression

Explanation: FlashArray employs always-on inline deduplication and compression to achieve significant data reduction and efficiency.

Question 3: Storage Provisioning

What type of provisioning is used in FlashArray volumes?

- A. Thick provisioning
- B. Thin provisioning
- C. Static provisioning
- D. Tiered provisioning

Correct Answer: B. Thin provisioning

Explanation: Volumes in FlashArray are thin provisioned by default, which means capacity is allocated as needed rather than all at once.

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Pure Storage FlashArray-Storage-Professional Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Troubleshooting: Covers identification and resolution of configuration errors, performance issues, and replication problems using Pure Storage diagnostic tools and alerts. Includes port configuration and predictive support mechanisms to maintain system reliability.
Topic 2	<ul style="list-style-type: none">• Data Protection: Covers snapshot management, replication configuration, policy management, SafeMode, and advanced replication technologies such as ActiveDR. Focuses on ensuring data availability, disaster recovery, and protection against data loss.

Topic 3	<ul style="list-style-type: none"> • Administration: Covers core administrative tasks including volume configuration, array management, host connections, third-party integrations, and security protocols. Focuses on best practices for maintaining optimal performance and secure access across the storage environment.
Topic 4	<ul style="list-style-type: none"> • Monitoring: Covers the use of Pure1, GUI, and CLI tools to monitor array health, generate reports, and analyze performance and capacity metrics. Includes data reduction ratios, meta forecasting, and proactive capacity planning.
Topic 5	<ul style="list-style-type: none"> • FA File: Covers configuration and management of FA File services, including DNS setup, Active Directory integration, and protocol access. Focuses on enabling secure and efficient file sharing across the organization.

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Pure Storage Pure Certified FlashArray Storage Professional Sample Questions (Q57-Q62):

NEW QUESTION # 57

What method is recommended for monitoring an array with 3rd party tools such as Prometheus and SolarWinds?

- A. SMI-S
- B. SYSLOG
- C. REST API

Answer: C

Explanation:

Modern Monitoring Standards: Pure Storage has built its management ecosystem around the REST API. While traditional methods like SNMP and Syslog are supported for basic health alerts, the REST API provides the depth of data (granularity) and the performance required for modern observability platforms like Prometheus, SolarWinds, and Grafana.

The Pure Storage Exporter: For tools like Prometheus, Pure Storage provides an official "Pure Exporter." This exporter acts as a bridge; it queries the FlashArray via the REST API to gather real-time metrics (latency, bandwidth, IOPS, capacity) and converts them into the format Prometheus understands.

SolarWinds Integration: SolarWinds utilizes the Pure Storage REST API to pull performance and health data into its storage monitoring modules. This allows for deep-dive historical analysis that exceeds the capabilities of simple SNMP traps.

Why SMI-S (Option B) is incorrect: SMI-S (Storage Management Initiative Specification) is a legacy industry standard that is largely deprecated in favor of RESTful interfaces. Pure Storage does not focus on SMI-S for modern third-party tool integration.

Why SYSLOG (Option C) is incorrect: Syslog is excellent for Event Logging (e.g., "User Logged In," "Volume Deleted"), but it is a poor choice for Performance Monitoring. You cannot effectively graph IOPS or bandwidth trends using Syslog streams alone.

NEW QUESTION # 58

A FlashArray//XL is used for NVMe-RoCE services. The array has been lightly loaded and has performed as expected. A new workload has been added to the array, which is within the array's performance envelope. The change has resulted in extreme latency and service outages for all workloads utilizing NVMe-RoCE.

Which misconfiguration is this a symptom of?

- A. Priority Flow Control (PFC) is not configured properly.

- B. The ports are configured with NVMe-RoCE and Replication concurrently.
- C. NVMe-RoCE is not supported by the new workload.

Answer: A

Explanation:

Requirement for Lossless Ethernet: NVMe over RoCE (RDMA over Converged Ethernet) requires a lossless fabric to function correctly. Unlike standard iSCSI which uses TCP for error recovery, RoCE assumes the network will not drop packets. If the network is "lossy," performance degrades significantly.

The Role of PFC: Priority Flow Control (PFC) (IEEE 802.1Qbb) is the specific mechanism used in Data Center Bridging (DCB) to provide flow control on a per-priority basis. It allows the switch to send a "pause" frame to the sender when buffers are full, preventing packet drops.

Symptom Analysis: In the scenario provided, the array itself is not overloaded ("within the performance envelope"). However, the addition of a new workload increased traffic to the point where buffer congestion occurred. Because PFC was likely misconfigured (either on the FlashArray ports, the network switches, or the host NICs), the network dropped packets instead of pausing traffic. This leads to "go-back-N" retransmissions and massive latency spikes that affect all workloads sharing that fabric.

Pure Storage Best Practices: Pure Storage documentation for NVMe-RoCE emphasizes that PFC must be enabled and consistent across the entire path. If there is a mismatch in PFC configuration, the resulting packet loss will cause the symptoms described: extreme latency and potential service outages.

NEW QUESTION # 59

What are the two types of FA File quota limits?

- **A. Enforced and Unenforced**
- B. Limited and Unlimited
- C. File and Block

Answer: A

Explanation:

In Pure Storage FlashArray File Services (Purity//FA), administrators can apply Quota Policies to managed directories to control and monitor capacity consumption. When configuring the rules for these quotas, the limits are categorized into two specific types: Enforced and Unenforced.

Enforced Quotas (Hard Limits): When a quota rule is set with the --enforced flag set to True, it acts as a hard boundary. If the users or applications writing to that managed directory hit the specified capacity limit, the FlashArray will actively block any further write operations, ensuring the directory cannot exceed its allocated space.

Unenforced Quotas (Soft Limits): When a quota rule is unenforced (the flag is set to False), it acts purely as a monitoring and alerting threshold. Users can continue to write data and organically grow the directory past the specified limit without application disruption, but the system will track the overage and trigger administrative notifications.

Here is why the other options are incorrect:

File and Block (A): This describes the two underlying storage protocols/architectures the unified FlashArray serves, not the types of capacity quota limits for directories.

Limited and Unlimited (B): While you can theoretically leave a file system to grow "unlimited" up to the size of the array, the specific technical parameters in the Purity quota policy engine are defined as enforced vs. unenforced.

NEW QUESTION # 60

A FlashArray administrator is configuring new hosts. There is an option in the personality settings for the target OS.

When is the best time to configure the personality for a host in Purity?

- A. After the host has been created and volumes are connected to the host.
- **B. When a host is initially created and before volumes are connected to the host.**
- C. Host personalities can be configured at anytime except for the ESXi operating system.

Answer: B

Explanation:

Definition of Host Personality: In Purity//FA, a Host Personality is a setting applied to a host object that modifies how the FlashArray communicates with that specific initiator. It ensures the array sends the correct SCSI responses that the target Operating System (OS) expects. Common personalities include ESXi, AIX, HP-UX, and Hitachi-VSP.

The Importance of Timing: The best practice is to set the personality during the host creation phase, before any volumes are attached or I/O has commenced. This ensures that from the very first "Inquiry" command sent by the host, the FlashArray responds with the appropriate settings (such as specific VAAI primitives for ESXi or specific ALUA behaviors for other Unix variants).

Risks of Changing Later: While Purity allows you to change a host personality later, doing so while volumes are connected and I/O is active can be disruptive. For many operating systems, a change in personality requires the host to be rebooted or the storage paths to be "rescanned" to recognize the change in device capabilities.

Default Behavior: If no personality is selected, the FlashArray uses a "Generic" personality suitable for standard Windows and Linux distributions. However, for specialized hypervisors like ESXi, failing to set the personality correctly from the start can lead to performance issues or lack of support for hardware acceleration features.

Why Option C is incorrect: Changing the personality after volumes are connected is reactive rather than proactive. It increases the risk of the host misinterpreting the storage device's capabilities, potentially leading to mount failures or path instability.

NEW QUESTION # 61

An administrator is testing FA File Services configurations and unintentionally disabled User Mapping on an active NFS Export. What happens to file accessibility on that export?

- A. The changes to authentication will not be applied until the export is restarted.
- B. The export will retain accessibility to all existing files but new files can not be created.
- C. The export will lose accessibility to all existing files but have no issue with file creation.

Answer: C

Explanation:

User Mapping in FA File: On a Pure Storage FlashArray, User Mapping is the mechanism that translates identities between different protocols (like mapping a Windows SID to a Unix UID/GID) or between an external directory service (like Active Directory or LDAP) and the local file system permissions.

The Impact of Disabling Mapping: When User Mapping is disabled on an active NFS export, the FlashArray can no longer resolve the identity of the user attempting to access existing files. Because NFS (specifically NFSv3 and NFSv4.1 supported by Pure) relies on these identifiers to verify file ownership and ACLs, existing files-which are tagged with specific owner IDs-become effectively "orphaned" from the perspective of the incoming request.

Access vs. Creation: * Existing Files: Accessibility is lost because the system cannot verify that the user has the rights to read or modify the file without the mapping logic.

New Files: Interestingly, in many "No Mapping" configurations, a user may still be able to create new files (often defaulting to a 'nobody' or 'anonymous' UID depending on the export rules), but they will immediately lose the ability to manage or access them once created because the mapping link is broken.

Real-time Application: Unlike some legacy storage systems that require a service restart, Purity applies export policy changes dynamically. As soon as the "User Mapping" toggle is disabled, the logic is removed from the data path, impacting active sessions immediately.

NEW QUESTION # 62

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