

FlashArray-Storage-Professional Valid Test Answers - The Best Pure Storage Pure Certified FlashArray Storage Professional - FlashArray-Storage-Professional Verified Answers

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"> • 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 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"> • 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 4	<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.
Topic 5	<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.

>> **FlashArray-Storage-Professional Valid Test Answers** <<

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Pure Storage Pure Certified FlashArray Storage Professional Sample Questions (Q63-Q68):

NEW QUESTION # 63

A FlashArray is set up with LDAP authentication. A user is a member of the groups associated with both Array Admin and Storage Admin.

What experience is expected for the user?

- A. User will not be able to login.
- **B. User will have Array Admin permissions.**
- C. User will have Storage Admin permissions.

Answer: B

Explanation:

Similar to the previous question regarding directory services, Pure Storage Purity OS handles Role-Based Access Control (RBAC) overlaps by granting the most permissive role available to the user.

When configuring LDAP or Active Directory authentication on a FlashArray, administrators map directory groups to specific FlashArray roles (Array Admin, Storage Admin, Ops Admin, Read Only). If a user happens to be a member of multiple LDAP groups that are mapped to different roles on the array, Purity evaluates all mapped roles and automatically assigns the user the highest level of privilege during their session.

Since "Array Admin" has full administrative rights over the entire array (including hardware management, directory services configuration, and firmware upgrades) and sits higher in the hierarchy than "Storage Admin" (which is restricted to provisioning and managing storage objects like volumes and hosts), the system will seamlessly grant the user Array Admin permissions.

Here is why the other options are incorrect:

User will not be able to login (B): Purity is designed to handle this exact scenario smoothly. It resolves the conflict by defaulting to the higher privilege, rather than throwing an error or denying access.

User will have Storage Admin permissions (C): The system does not default to the lowest privilege or restrict access when a higher-level group membership is present and valid.

NEW QUESTION # 64

A storage administrator is configuring a new volume and wants to provision 500GB. If the administrator accidentally selects PB, what will happen?

- A. The volume will be created but a warning will be displayed.
- B. The volume will not be created and a warning will be displayed.
- C. The volume will be created and space will immediately be used.

Answer: A

Explanation:

Pure Storage FlashArrays utilize Thin Provisioning as a core, always-on architectural principle. When a volume is created, the "size" assigned to it is merely a logical limit (a quota) presented to the host; no physical back-end flash capacity is allocated or "pinned" at the time of creation.

Because of this architecture, Purity allows administrators to create volumes that are significantly larger than the actual physical capacity of the array (this is known as over-provisioning). If an administrator accidentally selects PB (Petabytes) instead of GB, the Purity GUI will allow the volume to be created because it is a logical operation that doesn't immediately consume 1PB of physical flash. However, Purity includes a built-in safety check: if the requested logical size is exceptionally large or exceeds the current physical capacity of the array, the GUI will present a warning or confirmation prompt to ensure the administrator is aware of the massive logical size being provisioned before finalizing the change.

Here is why the other options are incorrect:

The volume will be created and space will immediately be used (A): This describes "Thick Provisioning," which Pure Storage does not use. Space is only consumed on a FlashArray when unique data is actually written by the host and processed by the deduplication and compression engines.

The volume will not be created and a warning will be displayed (C): Purity does not strictly forbid over-provisioning. While it warns the user to prevent human error, it does not block the creation of the volume, as over-provisioning is a standard practice in thin-provisioned environments.

NEW QUESTION # 65

An administrator is running commands to verify NVME/TCP connectivity from the hosts to the FlashArray. They use the command `ping -M do -s 8972 <ip_addr>` from the initiator and it fails.

What should the administrator do to resolve the issue?

- A. Check the MTU of 9000 is set on each hop to the FA.
- B. Engage support to enable NVME/ TCP services.
- C. Run the command from the target.

Answer: A

Explanation:

When configuring NVMe/TCP (or iSCSI) for optimal performance on a Pure Storage FlashArray, configuring Jumbo Frames (an MTU of 9000) end-to-end is a standard best practice.

The command `ping -M do -s 8972 <ip_addr>` is specifically used to verify Jumbo Frame configuration across the network.

The `-M do` flag sets the "Do Not Fragment" (DF) bit, meaning the network is not allowed to break the packet into smaller pieces.

The `-s 8972` flag sets the ICMP data payload to 8972 bytes. When you add the standard 8-byte ICMP header and the 20-byte IP header, the total packet size equals exactly 9000 bytes.

If this ping command fails, it indicates that somewhere along the network path between the host (initiator) and the FlashArray (target), a switch port, router, or network interface is not configured to support an MTU of 9000. The packet is being dropped because it is too large and cannot be fragmented. The administrator must verify the MTU settings on every network hop (switches, routers, and host NICs) to resolve the issue.

Here is why the other options are incorrect:

Engage support to enable NVME/ TCP services (A): The failure of a Jumbo Frame ping test is a Layer 2/Layer 3 network configuration issue, not an indicator that the NVMe/TCP storage protocol service is disabled on the array.

Run the command from the target (C): While pinging from the FlashArray back to the host is a valid secondary troubleshooting step,

it will likely also fail if the network path doesn't support Jumbo Frames. The actual resolution is to fix the MTU on the network hops.

NEW QUESTION # 66

What does an asynchronous blackout window prevent?

- A. New replication transfers that started before the blackout window.
- **B. New replication transfers from starting during the blackout window.**
- C. In progress transfers that started before the blackout window.

Answer: B

Explanation:

Definition of a Blackout Window: In Purity//FA, a Blackout Window is a scheduled period during which asynchronous replication is suspended. This is typically used by administrators to preserve WAN bandwidth during peak business hours or to prevent replication traffic from competing with high-priority local workloads (like a massive database batch job).

The "In-Progress" Rule: One of the most important characteristics of a blackout window is that it is non-disruptive to active transfers. If a replication job started at 7:55 AM and the blackout window begins at 8:00 AM, Purity will allow that specific transfer to continue until it finishes.

The Prevention Mechanism: Once the clock hits the start of the blackout window, the replication scheduler is effectively "paused." No new snapshots will be queued for transfer, and no new replication sessions will be initiated until the window expires.

Why Option A is incorrect: Purity does not kill active transfers. Abruptly stopping a transfer would waste the bandwidth already consumed and require the entire delta-set to be re-calculated or re-sent later.

Why Option B is incorrect: The phrasing is logically inconsistent; you cannot prevent something that "started before" the window from being "new" during the window.

Best Practice: When configuring blackout windows, ensure that the "clear" time (the time between windows) is long enough to allow the array to catch up on the snapshots that were queued during the blackout, otherwise, you risk triggering Alert 51 (Replication Delayed).

NEW QUESTION # 67

Volume space has increased on a FlashArray and shared space decreased by the same amount.

What does this indicate?

- A. Space reclamation fell behind.
- **B. Volumes were deleted.**
- C. Hosts were removed.

Answer: B

Explanation:

Understanding Space Reporting: To understand this behavior, you have to look at how Purity calculates capacity. Pure Storage uses a data reduction engine where data is deduplicated and compressed.

Volume Space vs. Shared Space:

Volume Space: This represents the unique data belonging to a specific volume that is not shared with any other volume via deduplication or snapshots.

Shared Space: This represents the data that is common across multiple volumes or snapshots. If you have two volumes that are clones of each other, most of that data is "Shared." **The "Shift" Mechanism:** When a volume is deleted (and potentially eradicated), the data it once shared with other volumes no longer needs to be "shared." Imagine Volume A and Volume B share 100GB of data. That 100GB is accounted for in Shared Space.

If you delete Volume B, that 100GB of data is now only referenced by Volume A.

Consequently, that 100GB is moved from the Shared Space bucket into Volume A's Volume Space bucket.

Net Result: The total physical space used on the array remains the same initially, but the accounting shifts. You see a decrease in Shared Space and an identical increase in the Volume Space of the remaining volumes that held those deduplication references.

NEW QUESTION # 68

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