

Pure Storage FlashArray-Storage-Professional Exam PDF | FlashArray-Storage-Professional New Exam Camp



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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">• 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 4	<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.

- **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.

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Pure Storage Pure Certified FlashArray Storage Professional Sample Questions (Q64-Q69):

NEW QUESTION # 64

During a test failover using ActiveDR, what content will be presented to the target pod?

- A. The content from the last periodic refresh
- **B. The content from the undo pod**
- C. The content from the last real fail-over

Answer: B

Explanation:

ActiveDR is Pure Storage's continuous, near-sync replication solution. It differs fundamentally from standard asynchronous replication because it uses a continuous stream of data rather than snapshot-based "periodic refreshes" (which eliminates Option A). When you perform a test failover in ActiveDR, you do so by promoting the target pod. The target pod becomes writable, allowing your hosts and applications to run against the replicated data without disrupting the ongoing continuous replication from the source array in the background.

When the test is completed, you demote the target pod. To ensure that the data generated during your test failover isn't accidentally lost forever, ActiveDR automatically creates an undo pod at the exact moment of demotion.

If you need to resume that exact test failover scenario or recover the test data, you can re-promote the target pod and instruct ActiveDR to present the content from the undo pod. This unique mechanism allows storage administrators to seamlessly non-disruptively test, pause, and resume DR environments without affecting production protection.

NEW QUESTION # 65

FlashArray sent Alert 51 - Protection Group Replication Delayed.

What steps should be taken?

- A. Check for other open alerts, verify if the replication cabling is correct, and check if Protection Group was disabled.
- **B. Verify if there are any other open alerts, check if any other replication jobs are in progress, and verify current replication bandwidth.**
- C. Temporarily disconnect replication for troubleshooting, verify the size of the snapshot, and check for port errors in the FlashArray GUI.

Answer: B

Explanation:

Understanding Alert 51: On a Pure Storage FlashArray, Alert 51 signifies that a Protection Group's replication is lagging behind its scheduled completion time. This does not necessarily mean the connection is "down," but rather that the volume of data being sent is exceeding the available throughput or is being queued behind other tasks.

The Triage Process:

Open Alerts: You must check for related alerts (like Alert 20 for "Replication Connection Down") to determine if the delay is caused by a total link failure or just congestion.

Replication Jobs in Progress: Because FlashArray uses a specialized engine to manage replication, having multiple large snapshots from different Protection Groups replicating simultaneously can saturate the "replication pipe." Checking active jobs helps determine if there is a scheduling "traffic jam." Replication Bandwidth: Comparing the current outgoing replication throughput against the historical average or the physical limit of the replication ports helps identify if the delay is due to a sudden increase in Data Change Rate (churn) or a reduction in network performance.

Why Option B is incorrect: If a Protection Group were disabled, replication wouldn't be "delayed"-it would be stopped, which triggers a different alert state. Cabling issues usually result in "Connection Down" alerts rather than just "Delayed" alerts.

Why Option C is incorrect: Disconnecting replication is a destructive troubleshooting step that will only increase the lag and RPO. You should always analyze the existing data flow before breaking the connection.

NEW QUESTION # 66

In Pure Protect //DRaaS, the administrator modified the business policy used for backups, reducing the "DR Retention" from 7 days to 3 days. The DR target environment currently has 7 days of backups.

What will occur?

- A. Earlier backups will be retained until they expire according to the pre-modification policy, with new backups following the updated policy.
- B. The change will error out, requiring manual expiration of backups older than 3 days.
- C. Earlier backups will be erased to match the modified policy.

Answer: C

Explanation:

Policy-Driven Automation: Pure Protect //DRaaS (Disaster Recovery as a Service) is built on a declarative policy engine. When you define a business policy (Protection Group or similar policy-based management), the system's primary goal is to bring the environment into compliance with the "Desired State" defined by that policy.

Retention Enforcement: When the retention period is reduced (e.g., from 7 days down to 3 days), the Purity/Pure Protect engine identifies that any existing snapshots or backups older than the new 3-day threshold are now "out of policy."

Immediate Reclamation: Unlike some legacy backup systems that only apply new retention settings to future backups, Pure Storage's policy-driven architecture typically triggers an immediate cleanup of the now-obsolete data to reclaim space on the target. This ensures the environment matches the modified policy requirements immediately upon the policy update.

SafeMode Considerations: If SafeMode is enabled on the target, these "erased" backups will actually move into the "Destroyed" (but not yet eradicated) bucket for the duration of the SafeMode timer, providing a safety net against accidental policy changes or malicious deletions. However, from the perspective of the active DR policy, they are removed.

NEW QUESTION # 67

What is the best practice for configuring VMFS UNMAP for ESXi 6.7 or later?

- A. Set it to Auto with Low Priority.
- B. Set it to Fixed at 500MB/s.
- C. Set it to Auto with High Priority.

Answer: A

Explanation:

What is UNMAP?: UNMAP (SCSI command 0x42) is the mechanism that allows a host (like ESXi) to inform the storage array that specific blocks of data are no longer in use (e.g., after a VM is deleted or moved). This is critical for Pure Storage because it allows the array to reclaim that space and maintain high data reduction ratios.

Evolution in ESXi: In versions prior to 6.5, UNMAP was a manual process executed via the CLI. Starting with ESXi 6.7, VMware introduced Automatic Space Reclamation, which runs in the background.

The Pure Storage Recommendation: Pure Storage recommends setting the reclamation priority to Auto with Low Priority.

Low Priority: This ensures that the UNMAP commands are sent to the FlashArray at a steady, manageable rate (roughly up to 25 MB/s to 100 MB/s depending on the Purity version). Because FlashArrays are built on a high-performance metadata engine, "Low Priority" is more than sufficient to keep up with even high-churn environments without causing any contention for active application I/O.

Why avoid High Priority (Option B)?: Setting it to high priority or using a fixed high-burst rate can lead to "bursty" SCSI traffic.

While the FlashArray can handle the load, it is considered a best practice to keep background maintenance tasks like space

reclamation at a lower priority to ensure the "Big Three" (latency, bandwidth, IOPS) for production workloads remain optimized. Verification: You can verify that UNMAP is working by looking at the Data Reduction metrics in the Purity GUI or Pure1. If the "Thin Provisioning" or "Reclaimed" numbers are increasing after file deletions, the host is correctly communicating its freed space to the array.

NEW QUESTION # 68

If an NFS client can mount the FA File export shares with the IP address, but not the fully qualified domain name, what is most likely causing the issue?

- A. Issue with the DNS
- B. Issue with the OpenLDAP
- C. Issue with the Active Directory (AD) controller

Answer: A

Explanation:

When an NFS client successfully mounts an export using the target's IP address, it proves that the fundamental network connectivity (routing, firewalls) and the storage protocol layer (NFS export policies, host access permissions) are functioning correctly.

However, if the exact same mount attempt fails when using the Fully Qualified Domain Name (FQDN) of the FlashArray file service, the issue lies entirely with name resolution. The Domain Name System (DNS) is responsible for translating human-readable FQDNs into the IP addresses required for network communication. If the client cannot reach the DNS server, or if the DNS server lacks the correct A or AAAA records for the FlashArray's file Virtual IP (VIP) addresses, the client won't be able to resolve the name to the IP, causing the mount command to fail.

Here is why the other options are incorrect:

Issue with the Active Directory (AD) controller (A): Active Directory is primarily used for directory services, user authentication, and authorization (such as mapping permissions for SMB or NFSv4). While AD environments usually include DNS, an "AD controller issue" in the context of storage protocols usually points to permission denials, not host name resolution failures. Furthermore, since the mount works via IP, basic access is already validated.

Issue with the OpenLDAP (C): Similar to AD, OpenLDAP provides directory services for user mappings (UID/GID) and authentication. It does not perform FQDN-to-IP resolution.

NEW QUESTION # 69

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