Vendor: Dell-EMC

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Exam Name: Dell Midrange Storage Solutions Design 2023

Version: DEMO

QUESTION 1
What is the minimum number of IP addresses for optimal performance of PowerStoreX?

A. 7
B. 4
C. 6
D. 9

Answer: A
Explanation:
IP Address Requirements for PowerStoreX:
Dell PowerStoreX appliances require a minimum number of IP addresses to ensure optimal performance and management.

Optimal Performance:
For optimal performance, each PowerStoreX appliance typically requires a minimum of 7 IP addresses. These include addresses for management, inter-cluster communication, and data services.

Detailed Breakdown:
2 IPs for Management (1 for each node)
2 IPs for Inter-cluster communication (1 for each node)
2 IPs for iSCSI/Replication (1 for each node)
1 IP for NAS (optional but recommended for optimal performance)

QUESTION 2
Which path of the sizer tool for Dell Unity XT uses predefined configurations that are based on array model, capacity points, random workloads, RAID type, and drive type?

A. Advanced Performance
B. Quick Configuration
C. Simple Performance
D. System Designer

Answer: B
Explanation:
Sizer Tool Paths:
The Dell Unity XT sizer tool offers multiple paths for configuring storage solutions, each tailored to different user needs and expertise levels.

Quick Configuration:
The Quick Configuration path uses predefined configurations based on array model, capacity points, random workloads, RAID type, and drive type.
This path simplifies the sizing process by providing users with recommended configurations that align with common use cases and performance requirements.

QUESTION 3
On what host operating systems can the Grab tool run?

A. Linux, macOS, and Tru64
B. OS/390, Windows, and Linux

C. Windows, UNIX, and ESXi
D. ESXi, ChromeOS, and OS/390

Answer: C
Explanation:
Grab Tool Overview:
The Grab tool is used for collecting diagnostic information from host systems to aid in troubleshooting and performance analysis.

Supported Operating Systems:
The Grab tool can run on a variety of host operating systems, including Windows, UNIX, and ESXi.
This broad support ensures that administrators can gather necessary diagnostic data across different environments.

QUESTION 4
Which two statements are correct for a PowerStore 5200T with mixed SSD and SCM drive combination? (Select 2)

A. Expansion Enclosures are supported.
B. NVMe drives are not used for Caching and Vaulting.
C. SSD drives are used for metadata tiering.
D. SCM drives do not add to usable capacity.

Answer: AD
Explanation:
For a PowerStore 5200T system with a mixed SSD and SCM (Storage Class Memory) drive combination, the following statements are correct:

Expansion Enclosures are supported: PowerStore 5200T supports expansion enclosures, allowing for the addition of more drives to increase storage capacity and performance. This flexibility is crucial for scaling the storage system to meet growing data requirements.
SCM drives do not add to usable capacity: SCM drives in the PowerStore 5200T are primarily used for caching purposes rather than for adding to the system's usable capacity. These drives improve performance by accelerating data access times but do not contribute directly to the overall storage capacity.

QUESTION 5
A solution architect notices the PowerSizer is translating File Operations into IOPS for cluster and appliance summary details. IOPS are not impacting the summary MiB/s. What is the cause of this issue?

A. File Operations was entered. MiB/s was entered.
B. File Operations was entered. MiB/s was not entered.
C. File Operations was not entered. MiB/s was not entered.
D. File Operations was not entered. MiB/s was entered.

Answer: B
Explanation:
The issue arises because File Operations were entered into the PowerSizer tool, but MiB/s (Megabytes per second) was not entered. This causes the tool to translate File Operations into IOPS (Input/Output Operations Per Second) for the cluster and appliance summary details, but

since MiB/s was not entered, it does not impact the summary throughput (MiB/s). Here's the detailed explanation:

File Operations Entry: When file operations are entered, the tool calculates the corresponding IOPS to summarize the workload's impact on the system.
MiB/s Entry Missing: If the MiB/s value is not provided, the tool cannot incorporate this metric into the overall summary, leading to a mismatch where IOPS are calculated but do not affect the MiB/s summary.

QUESTION 6
When designing a Metro Volume, what configuration must be implemented to avoid unnecessary storage and compute resource usage?

A. Use MRU for PSP.
B. Use DRS affinity rules.
C. Place witness at a third site.
D. Use storage containers.

Answer: C
Explanation:
When designing a Metro Volume, placing the witness at a third site is crucial to avoid unnecessary storage and compute resource usage. The witness helps in maintaining quorum and ensuring the consistency of the Metro Volume in case of a site failure. Here's how it works:

Witness at Third Site: Placing the witness at a separate, third site ensures that it can independently verify the status of the primary and secondary sites, maintaining high availability and failover capabilities without consuming significant resources.
Avoids Resource Usage: By offloading the witness function to a third site, the primary and secondary sites can focus their resources on storage and compute tasks without the overhead of managing quorum.

QUESTION 7
A solution architect is sizing a new Dell Unity XT array that requires hybrid dynamic pools. Which option must be selected in Midrange Sizer?

A. Advanced Performance
B. Application Oriented
C. Quick Configuration
D. System Designer

Answer: C
Explanation:
When sizing a new Dell Unity XT array that requires hybrid dynamic pools, the "Quick Configuration" option must be selected in the Midrange Sizer. This option streamlines the configuration process, allowing for a balanced and efficient setup of hybrid pools. Here's why Quick Configuration is used:

Simplifies Setup: Quick Configuration provides a straightforward approach to setting up the array, ensuring that the necessary parameters for hybrid dynamic pools are configured correctly without requiring in-depth manual input.

Balanced Performance: The tool uses predefined settings and best practices to create a hybrid

pool that balances performance and capacity, making it ideal for a variety of workloads.

QUESTION 8
A company has a Dell Unity XT 880 at its Boston site providing file storage for a business production application. The company has a second remote site 8 km (5 mi) away in Cambridge. A third site is in New York (342 km (213 mi) from the Boston site). How can the same production data be protected against system outage with a zero RPO and a maximum of 15 minutes RPO data recovery?

A. Synchronous replicate from Boston to Cambridge Asynchronous replicate from Boston to New York
B. Synchronous replicate from Boston to Cambridge Synchronous replicate from Boston to New York
C. Asynchronous replicate from Boston to Cambridge Asynchronous replicate from Cambridge to New York
D. Synchronous replicate from Boston to Cambridge Synchronous replicate from Cambridge to New York

Answer: A
Explanation:
Dell Unity XT offers both synchronous and asynchronous replication to protect data and ensure business continuity.

Synchronous replication is used for zero RPO, ensuring no data loss, but it is typically limited to shorter distances due to latency concerns.

Asynchronous replication is suitable for longer distances and provides near real-time data protection with a minimal RPO.

Distance Considerations:
The distance between Boston and Cambridge (8 km) is suitable for synchronous replication, providing zero RPO.
The distance between Boston and New York (342 km) is better suited for asynchronous replication due to latency, ensuring data recovery with a minimal RPO, such as 15 minutes.

Optimal Replication Strategy:
Synchronous replication from Boston to Cambridge ensures zero RPO for critical data protection.
Asynchronous replication from Boston to New York provides additional data protection with a 15-minute RPO, suitable for longer-distance disaster recovery.

QUESTION 9
Which two features are supported by the Cloud IQ mobile App? (Select 2)

A. Manage capacity, and performance details for the supported Dell storage platforms.
B. Overview of health, capacity, and performance details for the supported Dell storage platforms.
C. Allows users to email the recommended remediation to a colleague for help with performing the resolution.
D. Allows users to set up access controls by assigning users to predefined roles.

Answer: BC
Explanation:
CloudIQ Mobile App Features:

CloudIQ provides comprehensive monitoring and management for Dell storage platforms, accessible through both web and mobile apps.

Supported Features:
Overview of Health, Capacity, and Performance: The mobile app provides users with an overview of the health, capacity, and performance details for supported Dell storage platforms.

Email Recommended Remediation: The app allows users to email recommended remediation steps to colleagues, facilitating collaboration and resolution of identified issues.

QUESTION 10
In a Dell Unity XT system, SSD wear alerts are issued at 180-, 90-, 60-, and 30-day periods before the predicted end of life. What is automatically initiated on the spare drive at 30 days?

A. Predictive Copy Operations
B. Protective Copy Operations
C. Preemptive Copy Operations
D. Proactive Copy Operations

Answer: D
Explanation:
SSD Wear Alerts in Unity XT:
Dell Unity XT systems monitor SSD wear and issue alerts at various intervals (180, 90, 60, and 30 days) before the predicted end of life.

Action at 30 Days:
At the 30-day alert, the system automatically initiates Proactive Copy Operations to copy data from the wearing SSD to a spare drive, ensuring data integrity and continuity.

Proactive Copy Operations:
This proactive measure helps prevent data loss and maintains system performance by preparing for SSD replacement in advance.

QUESTION 11
Which two workload parameters are required to proceed with sizing for a PowerStore solution? (Select 2)

A. Response time
B. IOPS
C. Effective Capacity
D. Data reduction ratio

Answer: BC
Explanation:
Sizing for PowerStore Solutions:
Accurate sizing for PowerStore solutions requires specific workload parameters to ensure that the storage system meets performance and capacity requirements.

Required Parameters:
IOPS (Input/Output Operations Per Second): A key performance metric indicating the number of read/write operations the system must handle. Essential for determining the required performance capability.

Effective Capacity: The usable storage capacity after considering data reduction technologies like compression and deduplication. Critical for ensuring the system can accommodate the data volume.

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