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Exam : **NS0-516**

Title : NetApp Implementation
Engineer SAN Specialist E-
Series (NCIE)

Vendor : Network Appliance

Version : DEMO

NO.1 You help a customer diagnose a performance issue on an E-Series storage system. You decide to measure the amount of data that is being handled over the span of an hour.

In this scenario, what are you measuring?

- A. I/O alignment
- B. parity
- C. throughput
- D. IOPS

Answer: C

Explanation:

* Definition of Throughput: Throughput refers to the amount of data transferred from or to the storage system over a specific period. It is measured in units such as MB/s or GB/s.

* Relevance to Performance Diagnosis: When diagnosing performance issues on an E-Series storage system, measuring throughput over an hour helps determine the data handling capacity of the system.

This metric can reveal whether the system is processing data efficiently or if there are bottlenecks.

* Methodology: Tools within the SANtricity System Manager can be used to monitor and log throughput, providing insights into the performance characteristics and potential areas needing optimization.

References:

- * NetApp E-Series SANtricity System Manager documentation on performance monitoring
- * NetApp Implementation Engineer - SAN Specialist - E-Series manuals

NO.2 Click the Exhibit button.

Rock_Group

(Optimal) (14 drives, 17820.00 GiB capacity, [2 free capacity areas](#))



Secure-capable Yes (not enabled) | DA No

An administrator is asked to create a 5532 GiB volume from the volume group.

Referring to the exhibit, how would the administrator complete this request?

- A. Create the volume after performing space reclamation
- B. Create the volume after consolidating the capacity
- C. Create the volume from the available capacity
- D. Create the volume after adjusting the preservation capacity

Answer: B

* Review the Available Capacity: According to the exhibit, the volume group has a total of 17820.00 GiB capacity, out of which 5532.00 GiB is the current free capacity. However, it is split into two free capacity areas of 15120.00 GiB and 2412.00 GiB.

* Identify the Challenge: The requested volume of 5532 GiB cannot be created directly from the current

free capacity because it is not contiguous; it's split into two separate areas.

* Consolidate the Capacity: To create the volume, the administrator needs to consolidate the free capacity. This involves merging the non-contiguous free spaces to form a contiguous space large enough for the 5532 GiB volume.

- * Procedure for Consolidation:
- * Access the volume group management settings.
- * Select the option to consolidate free capacity areas.
- * Follow the prompts to merge the two free capacity areas into a single contiguous space.
- * Create the Volume: Once the free capacity is consolidated, proceed to create the 5532 GiB volume from the newly formed contiguous free space.

NO.3 Which command will display which Brocade switches are connected into a fabric?

- A. fabricshow
- B. switchshow
- C. show fabric
- D. configshow

Answer: A

- * Purpose: The command to display Brocade switches connected into a fabric.
- * Command: fabricshow
- * Usage: Displays detailed information about all the switches in the fabric, including domain IDs, WWNs, and other relevant information.
- * References: Brocade Fabric OS Command Reference Manual.

NO.4 Which native GUI switch tool is used to manage Brocade switches and directors?

- A. SAN Manager
- B. Enterprise Fabric Services
- C. Device Manager
- D. Web Tools

Answer: D

Explanation:

- * Brocade Switch Management: The native GUI switch tool for managing Brocade switches and directors is essential for network administrators to configure and monitor these devices.
- * Web Tools: Brocade Web Tools is a browser-based application that provides a graphical interface for managing Brocade switches and directors. It allows users to perform various management tasks such as zoning, firmware updates, and performance monitoring.
- * Features of Web Tools: The tool offers an intuitive interface, making it easier for administrators to perform complex tasks and troubleshoot issues effectively.

References:

- * Brocade Fabric OS Administrator's Guide
- * NetApp Implementation Engineer - SAN Specialist - E-Series manuals

NO.5 An administrator is asked to migrate two DE6600 shelves into a newly deployed E5760 environment that is configured with a stack of two DE460C shelves.

In this scenario, how does the administrator complete this task?

- A. Cable the DE6600s at the beginning of the stack
- B. Cable the DE6600s into a separate stack
- C. Cable the DE6600s at the end of the stack
- D. Cable the DE6600s between the DE460C shelves

Answer: C

* When integrating DE6600 shelves into a new E5760 environment that already has a stack of DE460C shelves, it is recommended to cable the DE6600 shelves at the end of the stack.

* This approach maintains the integrity and performance of the existing stack while allowing for the addition of new shelves without disrupting current operations.

NO.6 Which two actions must be performed to enable iSCSI multipathing on Windows for NetApp E-Series systems? (Choose two.)

A. Set up iSCSI IP addresses on the E-Series system and the Windows host

B. Install the Host Utilities on the Windows host

C. Create two VSANs on the iSCSI switches

D. Install a Host Channel Adapter (HCA) on the Windows host

Answer: A B

Explanation:

* iSCSI Multipathing: Enables multiple paths for data to travel between the host and storage, providing redundancy and increased performance.

* Steps to Enable:

* iSCSI IP Setup: Configure IP addresses for the iSCSI interfaces on both the E-Series system and the Windows host to ensure proper network communication.

* Host Utilities: Install NetApp E-Series Host Utilities on the Windows host to provide the necessary drivers and multipathing software.

References: NetApp E-Series SANtricity Software and Windows Host Utilities Installation and Configuration Guide.

NO.7 What are two methods for setting the host protocol configuration on the E2800 controller with a 4-port 16Gbps FC or 10Gbps iSCSI SFP+ host interface card (HIC)? (Choose two.)

A. Set at the factory, based on the order

B. Change the QSFP type in the HIC

C. Change the Feature Pack in the SANtricity System Manager

D. Set in the Hardware tab using SANtricity System Manager

Answer: A D

Explanation:

* Factory Setting: When ordering the E2800 controller with a 4-port 16Gbps FC or 10Gbps iSCSI SFP+ host interface card (HIC), the host protocol configuration can be predefined based on the customer's specifications. This setting is done at the factory and is ready upon arrival.

* SANtricity System Manager Configuration: Administrators can also set or change the host protocol configuration using the SANtricity System Manager. This can be done in the Hardware tab, where the configuration options for the HIC can be modified to suit the desired protocol.

References:

* NetApp E-Series SANtricity System Manager documentation

* NetApp Implementation Engineer - SAN Specialist - E-Series manuals