Vendor: NetApp

Exam Code: NS0-516

Exam Name: NetApp Certified Implementation Engineer - SAN Specialist, E-Series

Version: DEMO

QUESTION 1
What are two base host connectivity selections that are provided by the E2800 controller? (Choose two.)

A. FC
B. SAS
C. IB
D. iSCSI

Answer: AD
Explanation:
The E2800 controller supports Fibre Channel (FC) and iSCSI as base host connectivity options. FC provides high-speed connectivity for SAN environments. iSCSI allows for IP-based storage networking, facilitating connectivity over existing Ethernet networks.

QUESTION 2
What is represented by the Headroom graph on the SANtricity System Manager performance tab?

A. the percentage of I/O associated with the backend disk drives
B. the remaining performance capability of the physical objects in the storage system
C. the percentage of CPU processing capacity that is being used by the operations on the system
D. the resources that are being consumed by a defined workload

Answer: B
Explanation:
The Headroom graph in SANtricity System Manager shows the remaining performance capability of the physical objects (e.g., disks, SSDs) in the storage system. This helps in understanding how much additional load the system can handle before reaching its performance limits.

QUESTION 3
To enable one-way authentication in a new iSCSI Linux implementation, which three modifications should you make in the /etc/iscsi/iscsid.conf file on the Linux host? (Choose three.)

A. the target username and password
B. the initiator username and password
C. CHAP
D. sendtargets discovery
E. iSCSI

Answer: ACB
Explanation:
Target username and password: These credentials are used by the initiator to authenticate to the target.
Initiator username and password: These credentials are used by the target to authenticate the initiator.
CHAP: Challenge-Handshake Authentication Protocol is used to set up the authentication mechanism.
Modifications in the /etc/iscsi/iscsid.conf file include setting the appropriate values for these parameters.

QUESTION 4
Which two errors would fail a pre-upgrade health check? (Choose two.)

A. Hot spares are in use
B. Volumes are reported on a non-preferred path
C. An excess number of event log events are present
D. I/O is being processed

Answer: BD
Explanation:
Understand Pre-Upgrade Health Check:
Purpose: The pre-upgrade health check is designed to ensure the system is in a stable state before proceeding with firmware or software upgrades. This helps to avoid disruptions and data loss.
Volumes on Non-Preferred Path (B):
Issue: If volumes are reported on a non-preferred path, it indicates that there might be a pathing issue or an imbalance in the I/O load.
Impact: Non-preferred paths can lead to performance degradation and increased latency, which might cause issues during the upgrade process.
Resolution: Ensure that all volumes are accessible through their preferred paths before initiating the upgrade.
I/O Being Processed (D):
Issue: Active I/O during the upgrade process can lead to incomplete or failed upgrades. Impact: Processing I/O during an upgrade can result in data corruption or loss, and may also cause the upgrade to fail.
Resolution: Suspend or stop all I/O operations on the system before starting the upgrade.

QUESTION 5
Where would you find the version of the driver and firmware for QLogic HBAs that are supported by NetApp E-Series systems?

A. Interoperability Matrix Tool
B. SANtricity Admin Guide
C. Hardware Universe
D. QLogic download webpage

Answer: A
Explanation:
Access the Interoperability Matrix Tool (IMT):
Step: Open the NetApp Interoperability Matrix Tool.
Reason: The IMT provides a comprehensive list of supported configurations, including specific versions of drivers and firmware for HBAs.
Navigate to HBA Compatibility:
Step: Search for QLogic HBA compatibility with NetApp E-Series systems. Reason: To find the exact versions of drivers and firmware that are validated and supported.
Verify the Information:
Step: Cross-reference the information provided by the IMT with the installed hardware. Reason: Ensuring compatibility to avoid issues related to unsupported configurations.

QUESTION 6
Click the Exhibit button.

Supported Adapter Cards – E2812 Duplex 16Gb 10GbE Base-T 11.50 SANtricity OS							
Adapters							
Priority	Category	Bus Type	Mktg Part No	Images	LED	Mfg Part No	Description
1	Block Access	PCIe2	X-56023-00-0E-C		View		HIC.E2800.10Gb Base-T.2-ports, -C
2	Block Access	PCIe2	X-56026-00-0E-C		View		HIC.E2800.12Gb SAS.2-ports, -C
3	Block Access	PCIe2	X-56027-00-0E-C		View		HIC.E2800.12Gb SAS.4-ports, -C

You ordered a NetApp E2812 Duplex 16GB 10 GbE Base-T system.

Referring to the exhibit, what is the maximum number of 10GbE Base-T ports available to be used?

A. 8
B. 4
C. 6
D. 12

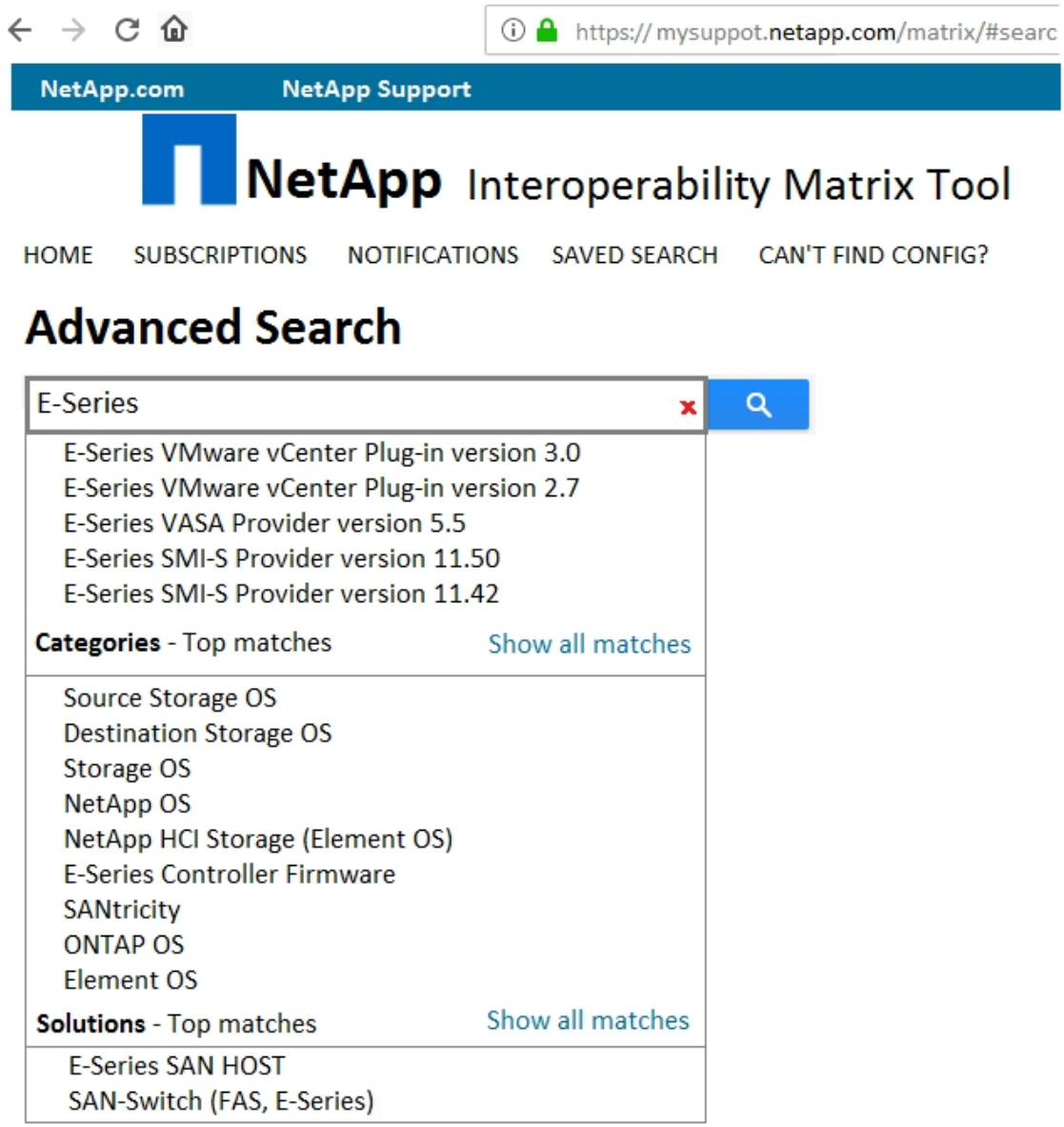
Answer: B
Explanation:
The exhibit shows the supported adapter cards for the E2812 system with specific marketing part numbers.
The E2812 system ordered is a Duplex 16Gb 10GbE Base-T system with the adapter card part number X-56023-00-0E-C, which is described as "HIC.E2800.10Gb Base-T.2-ports, -C".
Each card provides 2 ports.
Given that the system is duplex, it means it has two controllers, each capable of supporting one card. Therefore, each controller can have one 10GbE Base-T card with 2 ports, resulting in a maximum of 4 ports available in total for the system.

QUESTION 7
A customer has launched a data analytics initiative and has been transferring old data into the new data lake. The customer has discovered some data read errors during the transfer process. In this scenario, how should the customer have avoided these data integrity issues?

A. by ensuring that data assurance and media scan are always activated
B. by deploying secure-capable drives
C. by turning on cyclic redundancy checks (CRCs)
D. by turning on erasure coding

Answer: A
Explanation:
Data integrity issues can often be prevented by ensuring that mechanisms for data assurance and media scanning are activated.
Data Assurance (DA) is a feature that verifies the integrity of the data as it is read from or written to the storage system, detecting and correcting errors. Media scan is a background process that checks the entire disk surface for errors and corrects any found before they cause data integrity issues.
Together, these features ensure ongoing data integrity by preemptively identifying and fixing potential issues.

QUESTION 8
Click the Exhibit button.



Referring to the exhibit, what would you select in the search list to see all of the host selections for NetApp E-Series storage systems?

A. Storage OS
B. SANtricity
C. E-Series SAN Host
D. E-Series Controller Firmware

Answer: C
Explanation:
To see all the host selections for NetApp E-Series storage systems, you need to choose the appropriate category from the search list in the NetApp Interoperability Matrix Tool. The exhibit

shows a list of categories and solutions. Among these, the "E-Series SAN Host" category specifically refers to configurations and compatibility for hosts that connect to E-Series storage systems.
Selecting this option will provide a comprehensive list of supported host configurations for E-Series systems.

QUESTION 9
Your AutoSupport does not automatically send reports to NetApp's ActiveIQ tool. In this scenario, how do you access the data that would have been sent using the AutoSupport feature?

A. Use SANtricity Unified Manager to collect the support data remotely
B. Access the event log by using SANtricity System Manager
C. Use SANtricity System Manager to manually collect the support data
D. Ask NetApp Support to help you to access the data by using special support tools

Answer: C
Explanation:
When AutoSupport is not automatically sending reports to NetApp's ActiveIQ tool, you can manually collect the support data using SANtricity System Manager. The manual collection involves generating a support bundle that includes all necessary logs and system information. This data can then be reviewed locally or sent to NetApp support for analysis if needed.

QUESTION 10
Which NetApp tool provides information on size, weight, acoustic noise, and power of NetApp E-Series systems?

A. Hardware Universe
B. Interoperability Matrix Tool
C. Config Advisor
D. Active IQ

Answer: A
Explanation:
The Hardware Universe is a NetApp tool that provides comprehensive information on the size, weight, acoustic noise, and power requirements of NetApp systems, including the E-Series. This tool is essential for planning and managing the physical aspects of deploying NetApp hardware in a data center environment.

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