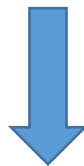


NetApp Certification NS0-505 Exam



- **Vendor: Network Appliance**
- **Exam Code: NS0-505**
- **Exam Name: NetApp Certified Implementation Engineer - SAN, E-Series**

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QUESTION 1

Which component of an E-Series storage system should always be upgraded first? (Choose the best answer.)

- A. ESM firmware
- B. Controller firmware
- C. Controller NVSRAM
- D. SANtricity management client

Answer: B

QUESTION 2

What is the SANtricity Client? (Choose the best answer.)

- A. A host I/O performance modeling interface
- B. A GUI or CLI run on a host server used for storage system management
- C. Inter-process communication that supports computer program subordinates
- D. An OS-dependent collection of utilities for servers attached to SANtricity-managed storage systems
- E. A host server process that enables storage system management with the storage data path

Answer: D

QUESTION 3

In the storage manager client, what are host groups? (Choose the best answer.)

- A. A set of I/O hosts with access to the same set of volumes
- B. Two or more servers that host localcache
- C. Two or more disk devices joined together
- D. A custom group of virtual machine hosts
- E. Volumes linked to update at the same time

Answer: D

QUESTION 4

What would be the minimum configuration required to support a drawer-protected 20-drive DDP? (Choose the best answer.)

- A. An E2624 with four DE5600 Expansion Chassis, containing a total of 6, 1.6TB SSD and 96, 3T NL-SAS drives.
- B. An E5460 with one DE6600 Expansion Chassis, containing a total of 120, 3TB NL-SAS drives.
- C. An E2712 with one DE6600 Expansion Chassis, containing a total of 72, 3TB NL-SAS drives.
- D. An E5424 with one DE5600 Expansion Chassis, containing a total of 48, 900GB SAS drives.

Answer: B

QUESTION 5

In the AMW, which tab provides access to Ethernet management port configuration and premium feature enablement? (Choose the best answer.)

- A. Storage & Copy Services
- B. Host Mappings
- C. Configuration

- D. Hardware
- E. Setup

Answer: E

QUESTION 6

What is the first step when replacing a FRU component on a running storage system? (Choose the best answer.)

- A. Disconnect the cables from the management ports.
- B. Power down the array before changing the part.
- C. Remove the part and check SANtricity for continuing errors.
- D. Use SANtricity to view the target component and place the component off-line or in service mode before removing the part.

Answer: D

QUESTION 7

What four resources have information to determine space and power & cooling requirements for E-Series storage systems? (Choose four.)

- A. Hardware cabling guide
- B. Install Guide
- C. Hardware Universe
- D. E-Series System Data Sheets
- E. E-Series Power & Cooling Calculator
- F. Site Prep Guide

Answer: BDEF

QUESTION 8

Schedules for AutoSupport's periodic collection of data can be changed in the _____. (Choose the best answer.)

- A. NVSRAM
- B. Major Event Log
- C. Enterprise Management Window
- D. Array Management Window

Answer: C

QUESTION 9

Which interface is used to view and change the logical structure of a storage system? (Choose the best answer.)

- A. VI
- B. Ldisk
- C. EMW
- D. Disk Manager
- E. AMW

Answer: E

QUESTION 10

Which storage manager feature scans the system for issues, reports them, and suggests procedures that will correct the issue?

- A. Recovery guru
- B. Event Log
- C. Diagmon
- D. Performance monitor
- E. Storage array diagnostics

Answer: B

QUESTION 11

Which function does the SANtricity Enterprise Management Window (EMW) provide? (Choose the best answer.)

- A. a device discovery option for storage systems to be managed
- B. a multipath I/O driver
- C. volume reconstruction progress updates
- D. a Manage Host Port Identifiers dialog box
- E. a configuration interface for creating disk pools and volume groups

Answer: A

QUESTION 12

The interval for an asynchronous mirror group should usually be equal to _____. (Choose the best answer.)

- A. the corresponding application's RPO
- B. half the corresponding application's RPO
- C. half the corresponding application's RTO
- D. the corresponding application's RTO
- E. the amount of time required to copy the size of the mirror repository to the remote site

Answer: E

QUESTION 13

Which interface launches the script engine for a storage system? (Choose the best answer.)

- A. MPIO
- B. DDP
- C. ALUA
- D. AMW
- E. EMW

Answer: E

QUESTION 14

All non-I/O related activity on the storage system is recorded in the _____. (Choose the best answer.)

- A. Storage Array Profile
- B. Event Log
- C. DACstore
- D. Cache backup device
- E. NVSRAM

Answer: C

QUESTION 15

When data is written to a snapshot, volume is stored _____. (Choose the best answer.)

- A. on the base volume for that snapshot
- B. on the repository area associated with the snapshot's corresponding image
- C. on the repository associated with the snapshot volume
- D. on the common repository for the snapshot group
- E. on a hot spare drive

Answer: D

QUESTION 16

During normal operation, a failure was detected on an E-Series hardware component. Which tool could be used to determine the location of the failed component and understand the potential recovery actions? (Choose the best answer.)

- A. Recovery Guru
- B. Host Mappings tab
- C. Real-time performance monitor
- D. Unreadable sectors log

Answer: B

QUESTION 17

What measurement refers to the number of read/write requests that can be handled in a 1-second time period? (Choose the best answer.)

- A. Throughput
- B. IOPS
- C. Parity
- D. I/O alignment
- E. Read modify write

Answer: B

QUESTION 18

What is the 'base' host connectivity provided by the E5400 Controller? (Choose the best answer.)

- A. None
- B. iSCSI
- C. SAS
- D. FC
- E. IB

Answer: D

QUESTION 19

Consult the _____ to determine the current link status of a host port. (Choose the best answer.)

- A. Storage Array Profile
- B. Real-time performance monitor
- C. Recovery Guru
- D. Unreadable Sectorslog

Answer: A

QUESTION 20

What is SMAgent? (Choose the best answer.)

- A. a host server process that enables storage system management with the storage data path
- B. an OS-dependent collection of utilities for servers attached to SANtricity-managed storage systems
- C. a GUI or CLI run on a host server used for storage system management
- D. a host I/O performance modeling interface
- E. inter-process communication that supports computer program subroutines

Answer: A

QUESTION 21

What system file is used during the controller start-of-day sequence to determine various SCSI parameters and other host-type specific settings for an E-Series system? (Choose the best answer.)

- A. Major Event Log
- B. ESM Firmware
- C. NVSRAM
- D. Unreadable Sectors Log

Answer: C

QUESTION 22

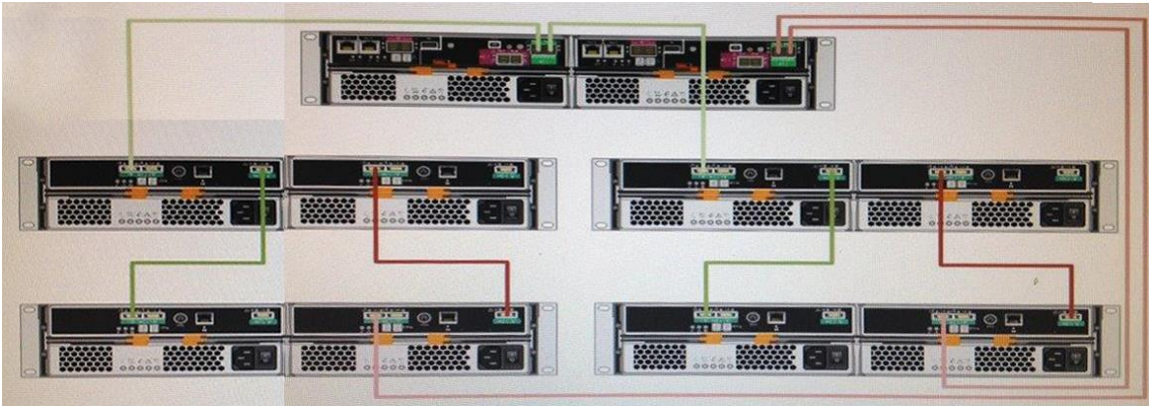
The ability of many E-Series controllers to hold an additional firmware image in reserve _____. (Choose the best answer.)

- A. is used to store a backup boot image
- B. allows controller firmware to be downloaded immediately and activated at a later time
- C. allows two firmware images to be used at the same time
- D. is used for Support use only

Answer: C

QUESTION 23

Review the diagram. Is this cabling correct or incorrect, and why? (Choose the best answer.)



- A. The cabling is incorrect because each controller goes to only one stack of disk shelves
- B. The cabling is correct for the dual stack cabling method
- C. The cabling is incorrect because it uses the top-down bottom-up cabling method
- D. The cabling is incorrect because the controllers are cabled from the host port.

Answer: B

QUESTION 24

An E-Series customer can find out when a specific volume was deleted by using the _____. (Choose the best answer.)

- A. Recovery Guru
- B. Major Event Log
- C. Online Help
- D. Storage Array Profile

Answer: A

QUESTION 25

What is SMutil? (Choose the best answer.)

- A. a host I/O performance modeling interface
- B. a GUI or CLI run on a host server used for storage system management
- C. inter-process communication that supports computer program subroutines
- D. an OS-dependent collection of utilities for servers attached to SANtricity-managed storage systems
- E. a host server process that enables storage system management with the storage data path

Answer: D

QUESTION 26

What is the proper order to power-on E-Series arrays when a storage system has at least 2 trays? (Choose the best answer.)

- A. Power all expansion drive trays first, wait several minutes for the expansion drive trays to spin up, and then power on the controller drive tray.
- B. Power on in any order, since the order does not matter.
- C. Power up A-side power supplies first, then power up all B-side power supplies.
- D. Power on the controller drive tray first, then wait several minutes for the controller drive tray to spin up, and then

power on all expansion drive trays.

Answer: D

QUESTION 27

Synchronous mirroring requires what type of connection between storage systems? (Choose the best answer.)

- A. FC
- B. SAS
- C. iSCSI
- D. InfiniBand

Answer: A

QUESTION 28

What does the storage system use to preserve cache data in the event of a complete controller failure? (Choose the best answer.)

- A. Cache mirroring
- B. Flash read cache
- C. Pre-fetch caching
- D. Read caching
- E. Write caching

Answer: A

QUESTION 29

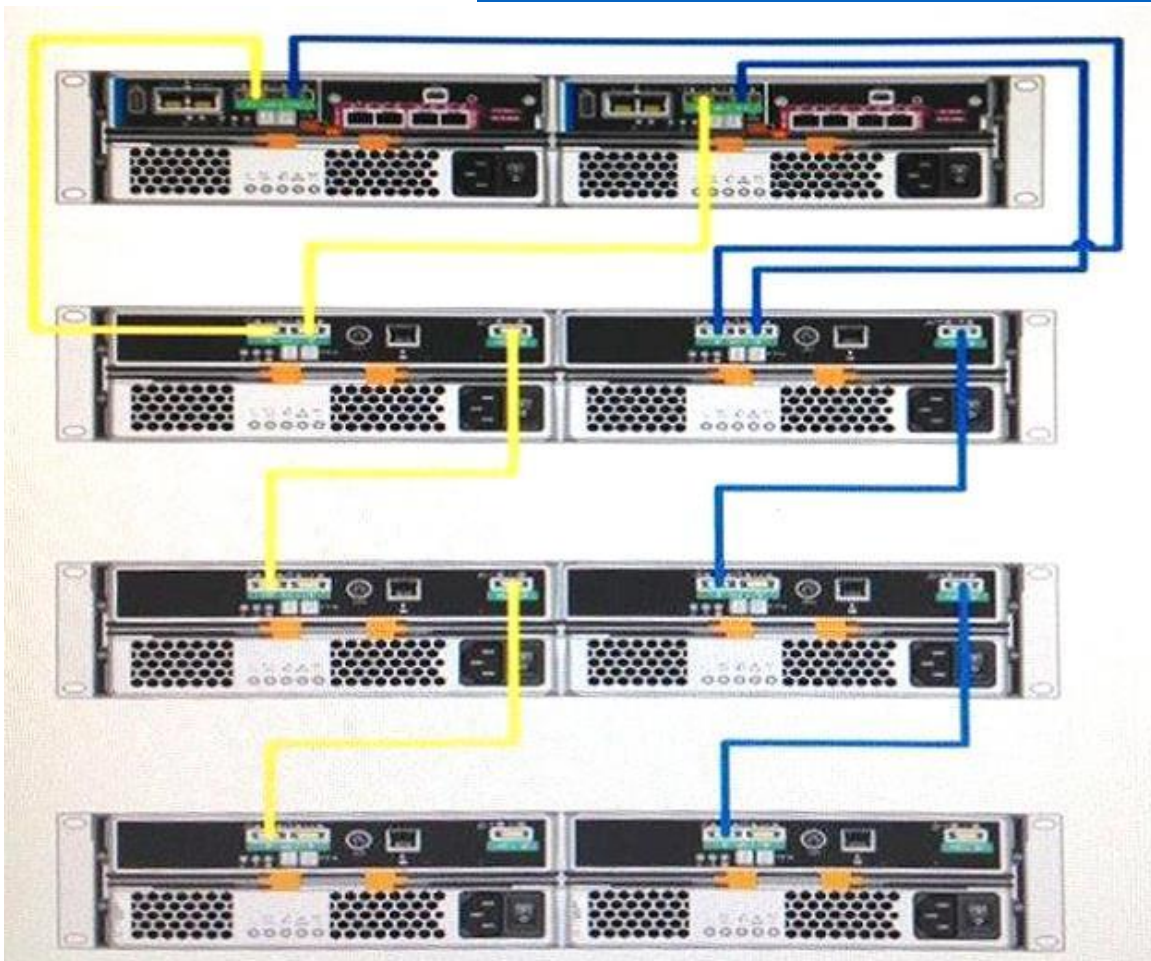
What is the 'base' host connectivity provided by the E5500 Controller? (Choose the best answer.)

- A. IB
- B. SAS
- C. FC
- D. iSCSI
- E. None

Answer: C

QUESTION 30

Review the diagram. Is this cabling correct or incorrect, and why? (Choose the best answer.)



- A. The cabling is incorrect because the controllers are cabled from the host port.
- B. The cabling is incorrect because it uses the top-down bottom-up cabling method.
- C. The cabling is correct because it follows the recommended E-Series cabling method.
- D. The cabling is incorrect because they have been daisy-chained.

Answer: D

QUESTION 31

Controller firmware package files start with which character(s)? (Choose the best answer.)

- A. SMIA
- B. CFW
- C. DLP
- D. RC
- E. N

Answer: A

QUESTION 32

What uses the Access Volume? (Choose the best answer.)

- A. Legacy operating environments
- B. XOR parity calculations
- C. Asymmetric Logical Unit
- D. Redundancy Check
- E. SMagent

Answer: E

QUESTION 33

A customer has an E-Series system with several expansion enclosures and can use the ____ to determine if the connections between the enclosures have been cabled correctly. (Choose the best answer.)

- A. Recovery Guru
- B. Major Event Log
- C. Host Mappings tab
- D. Cable Connections report

Answer: D

QUESTION 34

A d-stripe within a disk pool is always the equivalent of _____. (Choose the best answer.)

- A. 9+1 RAID 3
- B. 9+1 RAID 5
- C. 8+2 RAID 6
- D. 5+5 RAID 10
- E. 10+0 RAID 0

Answer: C

QUESTION 35

The system automatically disables write caching when _____. (Choose the best answer.)

- A. a disk pool is being expanded by adding a drive
- B. a failed disk drive has put a volume group into a degraded state
- C. there is a failed controller on the system, so that cache mirroring is unavailable
- D. the system detects a small percentage of cache hits over a 10-minute timeframe
- E. more than 4 unique host identifiers are trying to access the same volume

Answer: B

QUESTION 36

Which three methods can be used to increase the space available to clients? (Choose three.)

- A. Increase volume segment size
- B. Convert RAID-6 volume group to RAID-5
- C. Create new volume groups from unconfigured capacity
- D. Fill empty drive slots in the array
- E. Replace some HDD with SSD

Answer: ACD

QUESTION 37

With ALUA support, how does the storage system handle I/Os to the non-preferred path? (Choose the best answer.)

- A. The controller handles them normally, updating both controllers' cache to maintain consistency, which is why ALUA requires cache mirroring to be enabled.
- B. They are accepted but maintained in cache with a special change log, and only processed after 5 minutes when volume ownership may be changed.
- C. They are shipped over to the owning controller to be managed, then returned through the non-preferred path after completion.
- D. They are rejected with a specific SCSI check condition.
- E. The non-owning controller takes ownership of the volume in order to handle them, then restores ownership to the original controller.

Answer: C

QUESTION 38

The decision to use FC or iSCSI on the 5500 Controller with a 4-port 16Gb/s FC or 10Gb/s iSCSI Optical SFP+ HIC (Host Interface Card) can be _____. (Choose the best answer.)

- A. ignored because both can be used at the same time
- B. set at the factory, based on the order
- C. based upon the SFP type
- D. changed at any time by SANtricity

Answer: C

QUESTION 39

With a system cache block size of 32K, how much cache space per I/O is "lost" if incoming I/Os are all 48K writes? (Choose the best answer.)

- A. 24K
- B. 8K
- C. 0, no space is lost
- D. 4K
- E. 16K

Answer: D

QUESTION 40

On all the drives, which reserved region stores configuration information? (Choose the best answer.)

- A. Volume header
- B. Partition table
- C. Disk label
- D. DACstore
- E. NVSRAM

Answer: D

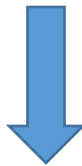
QUESTION 41

What mechanism governs control of the E-Series storage premium features? (Choose the best answer.)

- A. simple password system
- B. special USB flash drive that must be inserted into the controllers
- C. small toggle switches on the controller boards inside the system
- D. key file obtained from vendor and passed to system via SANtricity
- E. online database requiring the controllers to access the internet to activate features

Answer:

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