NetApp NCIE NS0-516 Practice Questions

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Question 1

Question Type: MultipleChoice

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

Options:

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 2

Question Type: MultipleChoice

A customer has an E5760 array with a 30-drive Dynamic Disk Pool (DDP) that uses 800 GB SSD drives. The customer needs to expand the pool by one drive but has only a 1.6 TB SSD drive available.

In this scenario, what happens when the customer attempts to add the 1.6 TB drive to the existing pool?

Options:

A- The pool is expanded by 1.6 TB
B- The pool is expanded by 1.6 TiB
C- The pool is expanded by 800 GB
D- An error occurs, and the add fails

Answer:

C

Explanation:

The pool is expanded by 800 GB

When a larger drive (1.6 TB) is added to a Dynamic Disk Pool (DDP) that consists of smaller drives (800 GB), the pool expands only by the size of the existing drives in the pool. Hence, in this scenario, the pool would be expanded by 800 GB.

Question 3

Question Type: MultipleChoice

A company is using the Federal Information Processing Standard (FIPS) on all volume groups. However, one volume group failed a security audit.

In this scenario what would cause a volume group to fail the security audit?

Options:

A- An FDE drive was added as a spare in the volume group
B- Data Assurance was changed to ''disabled'' for the volume group
C- The Secure Erase operation was applied to the volume group disks

D- Connectivity to the key server was interrupted

Answer:

A

Explanation:

FIPS Compliance: The Federal Information Processing Standard (FIPS) requires all components within a system to adhere to specific security standards.

FDE Drives: Full Disk Encryption (FDE) drives are used to ensure data security.

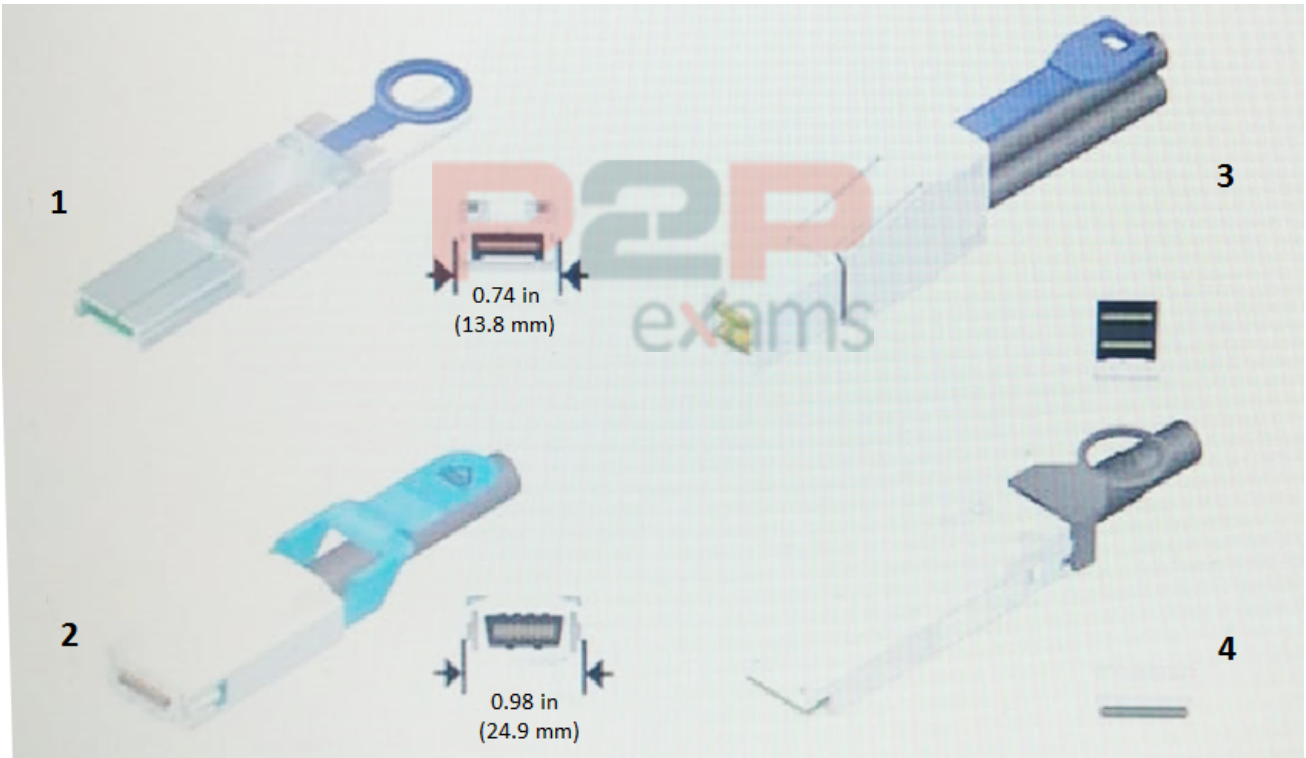
Audit Failure: Adding an FDE drive as a spare to a volume group without proper encryption settings could cause a security audit to fail.

Solution: Ensure all spare drives in a volume group meet the FIPS encryption requirements.

Question 4

Question Type: MultipleChoice

Click the Exhibit button.



Referring to the exhibit, which cable is an InfiniBand 4X connector?

Options:

A- 3
B- 1
C- 2
D- 4

Answer:

B

Explanation:

Identify Connector Types:

Step: Examine the connectors in the exhibit to identify the InfiniBand 4X connector.

Reason: InfiniBand 4X connectors have a distinct appearance and size.

Connector Characteristics:

Observation: Connector 1 in the exhibit is labeled as 0.74 in (13.8 mm), which matches the size and appearance of an InfiniBand 4X connector.

Verification:

Cross-Reference: Confirm with NetApp and industry standards for InfiniBand connectors.

Result: Connector 1 is the InfiniBand 4X connector based on size and design.

NetApp E-Series hardware documentation

Industry standards for InfiniBand connectors

Question 5

Question Type: MultipleChoice

What is the minimum number of drives needed to create a Dynamic Disk Pool?

Options:

A- 12
B- 8
C- 3
D- 11

Answer:

A

Explanation:

To create a Dynamic Disk Pool (DDP), the minimum number of drives required is 12. This minimum requirement ensures that there is enough capacity and redundancy to maintain the performance and data protection characteristics that DDPs provide.

Dynamic Disk Pools are designed to optimize data distribution and rebuild times. By using 12 drives as a baseline, the system can efficiently distribute data and parity information across the drives, improving fault tolerance and rebuild performance compared to traditional RAID configurations.

NetApp E-Series Storage System Documentation

SANtricity System Manager User Guide

Question 6

Question Type: MultipleChoice

When a drive fails in a Dynamic Disk Pool (DDP) with no free capacity, what happens to the data?

Options:

A- It is rebuilt using the on-board backup database
B- It is rebuilt using preservation capacity within the DDP
C- It is evacuated to the preservation capacity within the DDP
D- It is evacuated to a hot spare drive that is assigned to the DDP

Answer:

B

Explanation:

In a Dynamic Disk Pool (DDP), the system is designed to handle drive failures efficiently without impacting data availability. When a drive fails within a DDP and there is no free capacity, the data from the failed drive is rebuilt using preservation capacity within the DDP.

Dynamic Disk Pools use distributed sparing, which allows the spare capacity to be spread across all the drives in the pool rather than relying on dedicated hot spare drives. This distribution ensures that the rebuild process starts immediately and can be completed faster than traditional RAID systems because the workload is shared across more drives.

The preservation capacity is essentially reserved space within the DDP that can be utilized in the event of a drive failure to rebuild the data. This approach helps in maintaining redundancy and protecting data integrity even when a drive fails.

NetApp E-Series Storage System Documentation

SANtricity System Manager User Guide

Question 7

Question Type: MultipleChoice

An administrator is asked to create an asynchronous mirroring environment that supports multiple mirroring relationships, each with different recovery point objectives (RPOs).

In this scenario, how does the administrator create this environment?

Options:

A- The administrator creates a mirror group with the appropriate RPOs
B- The administrator creates multiple mirror pairs, each with their own schedule and RPO
C- The administrator creates a single consistency group with multiple RPOs
D- The administrator creates multiple mirror consistency groups with the appropriate RPOs

Answer:

B

Explanation:

To support multiple mirroring relationships, each with different recovery point objectives (RPOs), the administrator should create multiple mirror pairs. Each pair can be configured with its own schedule and RPO, allowing for tailored data protection strategies that meet specific needs.

Reference: NetApp SANtricity Storage Manager Configuration and Provisioning Guide.

Question 8

Question Type: MultipleChoice

Click the Exhibit button.

E2812 and E2824 controller shelf and EF280 flash array: Weight

Unit	Weight		
	Maximum*	Empty**	Shipping***
E2812 controller shelf, with twelve 3.5 in. (8.89 cm) SAS-3 drives each with 6 TB capacity	63.9 lb (29.0 kg)	17.08 (7.75 kg)	80 lb (36.2 kg)
E2824 controller shelf and EF280 flash array, with twenty-four 2.5 in. (6.35) SAS-3 drives each with 900 GB capacity	60.5 lb (27.4 kg)	17.4 lb (7.89 kg)	91 lb (41.2 kg)
* Maximum weight indicates a controller shelf, fully-loaded with the heaviest drives and all other components installed. Because drive weights can vary greatly, this value can vary, depending on the drives installed. Refer to the next table for weight ranges by drive type. ** Empty weight indicates a controller shelf with the controller canister, the power fan-canister, and the drives removed. *** Shipping weight indicates the maximum weight of the controller shelf and all shipping material.			

Component	Weight
Controller canister	5.47 lb (2.48 kg)
Power-fan canister	5.2 lb (2.35 kg)
2.5 in. SAS drive	0.6 lb (0.27 kg)
3.5 in. SAS drive	2.09 lb (0.95 kg)
2.5 in. SSD (solid-state disk)	1.33 lb (0.6 kg)

A customer has a raised floor with a weight limit of 700 lb. per floor tile. The customer's data

cabinet weights 90 lb. and covers a single floor tile.

Referring to the exhibit, What is the maximum number of E2824 shelves possible to be installed?

Options:

A- 22
B- 10
C- 6
D- 14

Answer:

C

Explanation:

Total weight capacity per tile: 700 lb.

Data cabinet weight: 90 lb.

Available weight for shelves: 700 lb. - 90 lb. = 610 lb.

Weight of an E2824 shelf (maximum): 60.5 lb.

Number of shelves: 610 lb. / 60.5 lb. 10 shelves

However, considering the safety margin and not exceeding the weight limit, we take 6 shelves as a practical maximum.

Question 9

Question Type: MultipleChoice

Which three documents should be provided to the customer after the E-Series installation is complete? (Select three.)

Options:

A- a document showing how much space is available for system expansion
B- a document showing the cabinet layout with cabling information and IP addresses being used

C- a document showing user IDs and passwords for all deployed devices
D- a document with IMT pages that show the supported host configuration and fabric switches in the solution
E- a document showing available power on the UPS with no equipment connected

Answer:

B, C, D

Explanation:

A document showing the cabinet layout with cabling information and IP addresses being used

This document helps the customer understand the physical and logical layout of the installation, making future troubleshooting and expansion easier.

A document showing user IDs and passwords for all deployed devices

It's essential for the customer to have access credentials for all the devices to manage and maintain the system.

A document with IMT pages that show the supported host configuration and fabric switches in the solution

This document ensures that the customer's environment is compatible with the NetApp solution, detailing the supported configurations.

Question 10

Question Type: MultipleChoice

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)? (Select two.)

Options:

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.

NetApp E-Series SANtricity System Manager documentation

NetApp Implementation Engineer - SAN Specialist - E-Series manuals

Question 11

Question Type: MultipleChoice

Which two steps are required to enable multifactor authentication on an E-Series system? (Choose two.)

Options:

A- Test SSO login
B- Configure In-Band Management
C- Map roles
D- Configure LDAP

Answer:

C, D

Explanation:

To enable multifactor authentication (MFA) on an E-Series system, follow these steps:

Map roles (C): Role mapping is necessary to define the permissions and access levels for

different users when MFA is enabled. This ensures that only authorized users can access specific functions and data on the system.

Configure LDAP (D): LDAP configuration is required for integrating with directory services to manage user authentication and access control. LDAP settings need to be correctly configured to support MFA, allowing the system to authenticate users against an external directory service.

NetApp E-Series Security Configuration Guide

SANtricity System Manager User Guide

Question 12

Question Type: MultipleChoice

A customer is running several EF570 systems and uses the ability of the EF-Series systems to run two host protocols at the same time. You are installing a new EF570 that uses the NVMe protocol for a high performance computing application. The controller on-board ports will not connect, but the HIC ports are working fine.

In this scenario, what is the problem?

Options:

A- The on-board host ports are disabled
B- There is a cable fault preventing the on-board ports from connecting
C- The on-board ports have the wrong SFPs for the desired network protocol
D- The switch ports are shut-down

Answer:

C

Explanation:

EF570 Systems: The EF570 supports multiple host protocols simultaneously, including NVMe.

Connection Issue: The controller on-board ports not connecting while HIC ports are working fine suggests a potential configuration issue.

SFP Mismatch: The most likely cause is that the on-board ports have the wrong Small Form-factor Pluggable (SFP) modules installed for NVMe protocol.

Solution: Ensure that the correct SFPs for NVMe protocol are installed in the on-board ports.

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