

Testkings.SG0-001_412.qa

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CompTIA SG0-001
CompTIA Storage+ Powered by SNIA



Questions and Answers material is updated in highly outclass manner on regular basis



This VCE covers all syllabus. After preparing it anyone pass the exam in high grades.



This is a new VCE file with new questions. All the questions are super valid.

Exam A

QUESTION 1

A database administrator has declared that a database for the Finance department can never age- off its data, even though old data may only be accessed for billing disputes in the future. The storage administrator does not need to use high performance disk to store this old data and chooses to place the database into a multi-tiered group of disks. The array can then move rarely accessed data between tiers as needed. This is called which of the following?

- A. VTL
- B. LVM
- C. HSM
- D. CAS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

Which of the following name services is used to provide initiators with discovery information?

- A. NIS
- B. DNS
- C. DDNS
- D. iSNS

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 3

Which of the following is the purpose of ISL?

- A. Improve performance of NAS array
- B. Expand FC fabric

- C. Improve performance of network
- D. Improve performance of HBA

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 4

Which of the following are true when comparing iSCSI and CIFS protocols? (Select TWO).

- A. iSCSI was developed mainly for databases
- B. Server can be booted from iSCSI
- C. iSCSI is used in Fibre Channel
- D. CIFS is commonly used in UNIX
- E. Storage appears as a local disk using iSCSI

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 5

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Which of the following has the potential for unexpectedly impacting storage array performance?



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- A. WWN-based hard zoning
- B. Multipathing
- C. Host based inline de-duplication
- D. Automated storage tiering

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

answer is valid.

QUESTION 6

A datacenter has a hierarchy of multiple storage systems with SSDs, FC disks, SATA disks, and JBODs. Which of the following classifies this arrangement?

- A. LVM
- B. FCoTR
- C. Tiers
- D. HSM

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 7

Which of the following IP storage technologies would BEST allow a technician to connect devices together that are not on the same network switch?

- A. VLAN
- B. WAN
- C. VSAN
- D. LSAN

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 8

Real 68

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Which of the following is used to identify ports in a switched Fibre Channel fabric?

- A. IP
- B. MAC
- C. DNS
- D. WWN

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 9

As data is accessed less frequently, the value of the data:

- A. decreases
- B. stays the same
- C. increases
- D. has no value

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 10

A technician wants to allow remote access to a NAS device. Which of the following network topologies would BEST allow the remote access, while providing for the HIGHEST level of security?

- A. VSAN
- B. LAN
- C. VLAN
- D. MAN

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 11

Real 69

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Which of the following RAID levels will allow an administrator to lose only two drives within the RAID group and not lose data?



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- A. RAID 1+0
- B. RAID A
- C. RAID 5
- D. RAID 6

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 12

Deduplication reduces storage space utilization by using which of the following methods?

- A. Compression
- B. Thin provisioning
- C. Archiving
- D. Single instance

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 13

Which of the following describes a scenario in which less frequently accessed data is reported for potential data migrations?

- A. Disk defragmentation
- B. Partition alignment
- C. Storage tiering
- D. Wide striping

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

A technician has just replaced a bad fiber cable, and is now collecting excess slack in the cable.

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Which of the following issues **MUST** the technician be aware of in this situation?

- A. Cable length
- B. Connector types on both ends of the cable
- C. Allowed bend radius of the cable
- D. Labeling for the replacement cable

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

When reviewing redundancy for power a technician MUST keep which of the following in mind?

- A. Circuit division
- B. Antistatic devices
- C. Fire suppression
- D. Proper rack loading

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 16

For which of the following technologies is trending and forecasting MOST important?

- A. VSAN
- B. Thin provisioning
- C. Multtpathing
- D. LVM

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 17

Which of the following storage types utilizes Universal Naming Convention (UNC) addressable

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storage?

- A. DAS
- B. NAS
- C. SAN
- D. SAS

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 18

After one of two FC HBAs had been replaced due to a failure, the storage administrator notices that performance has not returned to normal levels. Which of the following is the MOST likely cause for this behavior?

- A. The new HBA was faulty.
- B. The Fiber Channel cable was faulty.
- C. The server was not rebooted.
- D. The FC switch zoning was not updated

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 19

Which of the following is an analysis and removal of redundant data after a complete backup and after the data has been written to storage?



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- A. Inline deduplication
- B. OOS
- C. Post-processing deduplication
- D. CAS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 20

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Which of the following concepts allows a storage technician to define a MAXIMUM storage capacity while allocating the storage on demand?

- A. Thin provisioning
- B. Snapshots
- C. Thick provisioning
- D. Quotas

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 21

For which of the following thresholds would it be MOST important to set an alert for thin provisioned storage?

- A. Write cache used
- B. Fragmentation percentage
- C. IOPS
- D. Capacity used

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 22

Which of the following protocols are supported by hybrid storage systems? (Select TWO)

- A. CIFS
- B. 1394 A
- C. Tiering
- D. NPIV
- E. FCP

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 23

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Which of the following provides the BEST level of security for data traveling across a WAN?

- A. Data destruction
- B. Key Management
- C. Authentication

D. Encryption

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 24

SAN zoning provides which of the following?

- A. A means to mask LUNs for clients
- B. A method with which to divide the fabric into VSANs
- C. A means of partitioning a SAN fabric at the network layer
- D. A means of controlling access to storage at layer 4

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 25

Which of the following BEST defines what the 'ping' command actual proves?

- A. The frame types that can be sent and received by the target device
- B. If the target device responds, then all applications are ready to be utilized
- C. There are no zoning misconfigurations
- D. Connectivity exists between the sender and target devices

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

up-to-date.

QUESTION 26

Snapshots will provide the ability to recover from which of the following?



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- A. Drive failure beyond used RAID level capability
- B. Users deleting individual files/directories
- C. Complete array failure
- D. Administrator deleting source LUN

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 27

Which of the following describes a selection of controller-less drives?

- A. eSCSI
- B. SCSI
- C. JBOD
- D. RAID0

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 28

Which of the following BEST describes an advantage of a hot pluggable scenario?

- A. Pluggable when system is down
- B. Disk drive can be changed at anytime
- C. Disk drives can be swapped while doing backup
- D. Disk drive has a hot spot

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 29

Logical volume management (LVM) is based in:

- A. The storage system.
- B. The virtualized SAN file system.
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- C. The host.
- D. A NAS appliance.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 30

Which of the following tape drive features protects data from unauthorized use?

- A. Multi-streaming
- B. Multiplexing
- C. Compression
- D. Encryption

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 31

A customer wants to present a LUN to a server totaling 5TB. The server will initially use only 100GB. The storage administrator will upgrade the SAN as more storage is needed. Which of the following is the BEST feature to use to present storage to the server while maximizing storage flexibility?

- A. LUN Masking
- B. LUN Snapshot
- C. Thin Provisioning
- D. Thick Provisioning

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 32

An administrator has connected a new server to the network. The server can only gain access to devices located on the same subnet. Which of the following is the problem?

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- A. Incorrect firewall settings
- B. Incorrect gateway definition
- C. Bad cable
- D. Incorrect duplex setting

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 33

Which of the following connector types would be used to interface with iSCSI based storage?

- A. IEEE 1394
- B. RJ-45
- C. DB-25
- D. HD68

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 34

Which of the following describes the difference between a write-thru cache and a write-back cache?

- A. Write-back cache decreases disk write performance.
- B. Write-thru cache improves disk write performance.
- C. Write-back cache removes the risk of losing data during write operations
- D. Write-thru cache removes the risk of losing data during write operations.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 35

Which of the following backup types would BEST be used for fast backups and allow for offsite storage?

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- A. Tape
- B. D2D2T
- C. Optical
- D. D2D

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 36

Which of the following describes a file being written into non-continuous blocks within a file system?

- A. Partition misalignment
- B. Fragmentation
- C. Incompatible RAID level used
- D. Wrong block size

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 37

Asynchronous replication is defined as which of the following?



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- A. Data write is acknowledged to the host at the secondary site only, and then sent to primary site as network availability permits.

- B. Data write is acknowledged to the host at the primary site only and then sent to secondary site as network capabilities allow.
- C. Data write is not acknowledged to the host until transfer has been verified by secondary controller.
- D. Data write is acknowledged to the host at both primary and secondary simultaneous^ and transferred as network capabilities allow.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 38

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Off-site backups are MOST likely to help provide which of the following?

- A. Business continuity
- B. High availability
- C. Scalability
- D. Serviceability

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 39

Which of the following are common data rates for SAS traffic?

- A. 532Mb/s, 1064Mb/s
- B. 100Mb/s, 1Gb/s, 10Gb/s, 100Gb/s
- C. 1.5Gb/s, 3Gb/s, 6Gb/s, 12Gb/s
- D. 1Gb/s, 2Gb/s, 8Gb/s, 16Gb/s

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 40

Multimode 50 micron fiber cable can be used for which of the following scenarios? (Select TWO)

- A. 1Gbit Fibre Channel connection for FICON system 1000 meters (3281 feet) from switch
- B. 10Gbit Fibre Channel connection between directors 500 meters (1640 feet) apart
- C. 8Gbit Fibre Channel connection for storage 450 meters (1476 feet) from switch
- D. 4Gbit Fibre Channel connection between switches 50 meters (164 feet) apart
- E. 2Gbit Fibre Channel connection for Server 300 meters (984 feet) from switch

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 41

A way to increase bandwidth from a host to a storage device, utilizing an FC storage area network,

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is by configuring which of the following on the host?

- A. Teaming
- B. Multipathing
- C. Link aggregation
- D. Trunking

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 42

Which of the following is a SAN protocol?

- A. FCoE
- B. DCB
- C. DTE
- D. IDE

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 43

An administrator needs to provide access to a remote directory on a server. Which of the following would the administrator use to accomplish this?

- A. Create a file system
- B. Create a volume group
- C. Create a mount point
- D. Create a logical disk

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 44

Which of the following will MOST likely remove a single point of failure in the storage network

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architecture?

- A. Adequate heating and ventilation to each rack
- B. Floor and rack loading within acceptable weight limits

- C. Multiple power circuits available in each rack
- D. Maintained and tested fire suppression equipment

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 45

A support method which will automatically notify the support vendor of a problem would be an example of which of the following monitoring types?

- A. Call home
- B. fcping
- C. NPIV
- D. SMI-S

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 46

Which of the following is a benefit of tiered storage?

- A. Lowers cost over time
- B. Provides redundancy to all clients
- C. Increases physical security
- D. Enables disaster recovery

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 47

An administrator has configured storage for a server, and would like to ensure that other systems



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do not accidentally gain access to this server's storage by plugging into the system's port. Which of the following would provide a solution?

- A. RCSN
- B. Port zoning
- C. Virtual fabric
- D. WWN zoning

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 48

An administrator sets up CHAP on an iSCSI client to provide which of the following?

- A. Encryption of data between server and client
- B. Authorization of client's encryption keys
- C. High availability of remote storage
- D. Authentication for remote data storage

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 49

Servers, storage, and switches in a SAN all have multiple power supplies in N+1 configuration. Each server and storage system has dual connections to the fabric. Which of the following BEST describes this configuration?

- A. High availability, fully redundant SAN
- B. Fully resilient SAN
- C. Fully redundant SAN
- D. High availability components

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 50

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Which of the following disk drives is MOST common in a SAN?

- A. IPI
- B. EIDE
- C. FC
- D. IDE

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 51

Which of the following drive types would provide the LOWEST performance and reliability?

- A. FATA

- B. SCSI
- C. SAS
- D. FC

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 52

Which of the following terms matches the situation where a new file system is connected to a specific directory on an existing connected file system?

- A. Mount Point
- B. Device Map
- C. Logical Volume
- D. Volume Group

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 53

Which of the following is the appropriate tool for an administrator to use to provide a file system to

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a host with assigned storage LUNs?

- A. LBA
- B. LVM
- C. VBA
- D. FBA

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 54

An administrator, in preparation for a new server with dual HBAs connected to multiple fabrics, created a new WWN zone to add a new server and storage connections to Fabric A. The administrator then copied the zone in to the zoning configuration for Fabric B and activated it in both fabrics. How many paths will the new server see to the storage array when it is brought online the next day?

- A. Zero, the zoning configuration conflict will negate all paths
- B. One, the zone written for Fabric A will not work in Fabric B.
- C. Two, each storage array has a path in each fabric.
- D. Four, there are two ports of storage in each fabric

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 55

Which of the following RAID levels is also known as mirroring?

- A. RAID 0
- B. RAID 1
- C. RAID 3
- D. RAID 5

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 56

Which of the following maybe a contributing factor to a higher than average disk failure rate?

- A. High cache hit ratio
- B. Inadequate cooling
- C. Non-redundant power
- D. Improper RAID level

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 57

Which of the following would be the BEST approach to keep a single controller storage subsystem on a single fabric from being a single point of failure?

- A. Dual controllers
- B. Multi-path
- C. Dual core switches
- D. Redundant fabrics

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 58

A server's multi-pathing software indicates a failed path to the storage. Which of the following steps should be done FIRST to troubleshoot the issue?

- A. Verify the port LEDs are lit along the connection
- B. Replace the fiber cable.
- C. Replace the HBA.
- D. Update the drivers and firmware on the HBA.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 59



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Which NAS protocol integrates with Windows Active Directory to provide and manage file security?

- A. NFS
- B. CIFS
- C. SSH
- D. NDMP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 60

An administrator would like to connect a server to the local VSAN fabric. Which of the following would MOST likely need to be installed in the server?

- A. FCHBA
- B. SAS expander
- C. iSCSI controller
- D. TOE card

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 61

In which of the following ways can a storage administrator provide LUN security on a storage array?

- A. LUN masking
- B. LUN provisioning
- C. LUN controlling
- D. LUN establishing

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 62

Real 86

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Which of the following is an advantage of providing HA data storage?

- A. Reduces complexity
- B. Reduces power
- C. Reduces down-time
- D. Reduces hardware costs

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 63

Data STaaS refers to which of the following?

- A. Remote storage purchased from a third party on a subscription basis
- B. Setting up a server to run a storage service such as iSCSI or NFS
- C. Setting up a client to run over Ethernet or SAN storage
- D. Service contracts provided by SAN vendors for immediate replacement of faulty hardware

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 64

An administrator has just enabled multi-path connectivity to a storage array, but the host can only detect a single path. The switches detect both HBA ports. Which of the following fabric components is the MOST likely cause?

- A. The host was plugged in to the wrong switch port.
- B. Zone configuration is incorrect, or not applied.
- C. Host fiber is faulty or SFP is unsupported.
- D. Switch port ISLs are too busy to support the new requests.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 65

Real 87

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Given three hard drives, which of the following RAID levels would provide fault tolerance and the MAXIMUM amount of capacity?

- A. 0
- B. 1
- C. 5
- D. 1+0

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 66

A common way to ensure confidentiality of data while being transmitted across an Ethernet network would be:

- A. IPSec.
- B. public key infrastructure.
- C. full disk encryption.
- D. RADIUS.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 67

Which of the following disk technologies does NOT use moving magnetic media for storing data?

- A. SAS
- B. SSD
- C. SATA
- D. FC

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 68

Real 88

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The storage system has been provisioned and a rescan of the devices has been performed within the operating system. A technician sees twice as many devices than were provisioned. Which of the following is the MOST likely cause?

- A. One of the fiber connections is loose.
- B. One of the HBAs is zoned incorrectly.
- C. Multipathing has not been installed or configured.
- D. The technician rescanned the devices more than once.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 69

Which replication method requires the LEAST amount of space?

- A. Copy
- B. Clone
- C. Snapshot
- D. Mirror

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 70

Which of the following tools would BEST be used to troubleshoot storage latency issues on a Windows server?

- A. ping
- B. sysmon
- C. ipconfig
- D. perfmon

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 71

Real 89

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Which of the following technologies allows Fibre Channel traffic to be carried over Ethernet networks?

- A. SONET
- B. iSCSI
- C. FCoE
- D. TCP/IP

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 72

A server is having random issues communicating with a Fibre Channel direct attached storage system. Which of the following items should the technician replace FIRST?

- A. Host Bus Adapter (HBA)
- B. Storage controller
- C. FC switch
- D. Fiber optic cable

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 73

A customer has asked the SAN consultant for help with zoning best practices for a large datacenter. The consultant recommends zones based on which of the following?

- A. Single initiators
- B. Storage array
- C. Operating system
- D. HBA vendor

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 74

Real 90

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Which of the following would be considered a poor candidate for deduplication?

- A. A high performance OLTP database
- B. Tape based backups
- C. A filesystem or share containing unstructured windows files and documents
- D. Disk based backups

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 75

Which of the following administration tools should a technician use to setup an IP address on a new Fibre Channel switch?

- A. Web-GUI using SNMP
- B. CLI over serial connection

- C. CLI over SSH
- D. Web-GUI over HTTP/S

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 76

Which of the following can be applied to data stores to conserve storage capacity and/or bandwidth?

- A. Compliance
- B. Archiving
- C. Data deduplication
- D. Multipathing

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 77

Real 91

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A storage technician is asked to separate various network segments to group various hosts between layer 2 devices. Which of the following Ethernet network topologies would MOST likely need to be created?

- A. MAN
- B. VLANs
- C. WAN
- D. VSANs

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 78

Which of the following RAID levels is used for replicating and sharing data among disks and requires a MINIMUM of four disks?

- A. 0
- B. 1
- C. 0+1
- D. 1+0

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 79

Which of the following describes a RAID level 5 implementation?

- A. Used in data intensive or single-user environments which accesses long sequential records to speed up data transfer
- B. Uses mirroring where the data on one drive is duplicated on another
- C. Provides no data redundancy, but has the largest storage capacity
- D. Offers data protection and increased throughput by striping data and parity across all drives

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:**QUESTION 80**

Which of the following describes the location within the current accessible file system to which a new file system is made accessible?

- A. Swap space
- B. Mount point

- C. VSAN
- D. VLAN

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 81

A system administrator has been tasked to create a new LUN for a system that will store sensitive information. The system connects to the SAN via switched fabric.

Which of the following can the system administrator implement in the fabric to improve confidentiality of the data stored in the new LUN?

- A. Hardware initiators
- B. Fiber channel zoning
- C. LUN masking
- D. Random SCSI IDs

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 82

Which of the following is a layer-two protocol used by networked devices to advertize their capabilities?

- A. SMB
- B. SNMP
- C. LLDP
- D. FCoE

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 83

A system administrator has completed the configuration of the fiber channel switch. All switch ports have been configured the same way, since they connect similar server hardware with similar capabilities and configuration. One of the servers is unable to see its storage. The system administrator moves the server's current connection to a different and unused fiber channel port and the server's storage is now available.



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Which of the following is the MOST likely reason for the server not being able to see its storage in its original configuration?

- A. Bad MAU
- B. Bad fiber cable
- C. Bad SFP
- D. Bad NIC

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 84

A system administrator is tracking the size of data stored on a thin LUN and notices that the LUN is running out of space although the server's file system does not show the same amount of data. Which of the following can the system administrator perform to more accurately track LUN usage?

- A. Thin reclamation
- B. De-duplicate the LUN
- C. Compress the LUN
- D. Thin provisioning

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 85

In a switched fabric environment there is a need for security control of the FC switching

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infrastructure. Which of the following should be implemented to give the STRONGEST level of protection?

- A. LUN masking
- B. Soft zoning
- C. Hard zoning
- D. Port mapping

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 86

Node A is a member of SAN Zone 1 and SAN Zone 2. Node B is a member of SAN Zone 2. Node B has just been replaced and the storage administrator is troubleshooting connectivity issues between Node A and Node B. Which of the following is the MOST likely cause of the issue?

- A. Nodes cannot be a member of multiple zones.
- B. Node B is an unauthorized host cabled to the wrong SAN switch.
- C. Zone configuration is causing undesired Registered State Change Notification events.
- D. Zone configuration may need to be updated with the new port WWN.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 87

In logical volume management, which of the following is the HIGHEST level of abstraction?

- A. Volume Group
- B. Physical Disk Drives
- C. Physical Volume
- D. Logical Volume

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 88

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In a highly available SAN configuration that guarantees no data loss, which of the following replication approaches is required?

- A. Point-in-time
- B. Synchronous
- C. Journaling
- D. Asynchronous

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

answer is modified.

QUESTION 89

Which of the following measurements should be used when benchmarking performance between SAN vendors?

- A. IOPS

- B. I/O block size
- C. Random versus sequential I/O writes
- D. Read vs. write ratio

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 90

Which of the following describes the automatic moving of data between high-cost and low-cost storage devices?

- A. SAN virtualization
- B. SATA
- C. Storage partitioning
- D. HSM

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 91

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SNMP logs on a storage device show a duplex mismatch alert. Which of the following is the MOST likely cause?

- A. Misconfigured NIC
- B. Incorrect VLAN
- C. Broken cable
- D. Bad port

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 92

Which of the following attributes can be applied to storage data to save disk space? (Select TWO).

- A. Compression
- B. Deduplication
- C. Replication
- D. Encryption
- E. Virtualization

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 93

Which of the following backup methods only backs up data that has changed since the last backup of any type?

- A. Progressive
- B. Full
- C. Incremental
- D. Differential

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 94

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Which of the following BEST prevents unauthorized access to storage data via a username/password?

- A. ACL
- B. Encryption
- C. Physical access restrictions
- D. Compression

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 95

Which of the following LTO versions was the FIRST to support encryption?

- A. LTO-2
- B. LTO-3
- C. LTO-4
- D. LTO-5

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 96

A customer requests that a new SAN enclosure be installed on the top slots of an unused rack. Which of the following is a reason why a technician might deny this request?

- A. Improper airflow from the HVAC is caused by this installation enclosure.
- B. The rack's stability is threatened by the installation enclosure.
- C. Raised floor power comes from below in this installation.
- D. Cable management will be difficult in this setup.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 97

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A server has an HBA with the address of 23-00-00-1B-23-C4-B5-01. Which of the following properly identifies this type of address?

- A. MAC Address
- B. FCoE map
- C. N-port-ID
- D. WWNN

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 98

An administrator has 4 SAS drives that the manufacturer lists at 140 IOPS. How many IOPS combined would these drives have in a single RAID 0+1?

- A. 140 Read or 140 Write IOPS
- B. 280 Read or 140 Write IOPS
- C. 560 Read or 280 Write IOPS
- D. 560 Read or 560 Write IOPS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 99

A server has two HBAs each connected to redundant fabrics. The fabrics have multiple connections to the storage targets. Which of the following is true?

- A. Multipathing will not work in this configuration
- B. Multipathing will not be needed in this configuration
- C. Multipathing will provide high availability
- D. Each HBA is a single point of failure

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 100

Real 99

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Which of the following RAID levels will provide the BEST performance for Database Log Drive without jeopardizing the redundancy?

- A. RAID 0
- B. RAID 1+0
- C. RAID 1
- D. RAID 6

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 101

Which of the following would show a high amount of outstanding I/O on a host when the storage array is too busy processing data from other hosts?

- A. High number for disk queue length field
- B. Low number for MB/sec field
- C. High number for IOPs/sec field
- D. Low number for latency field

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

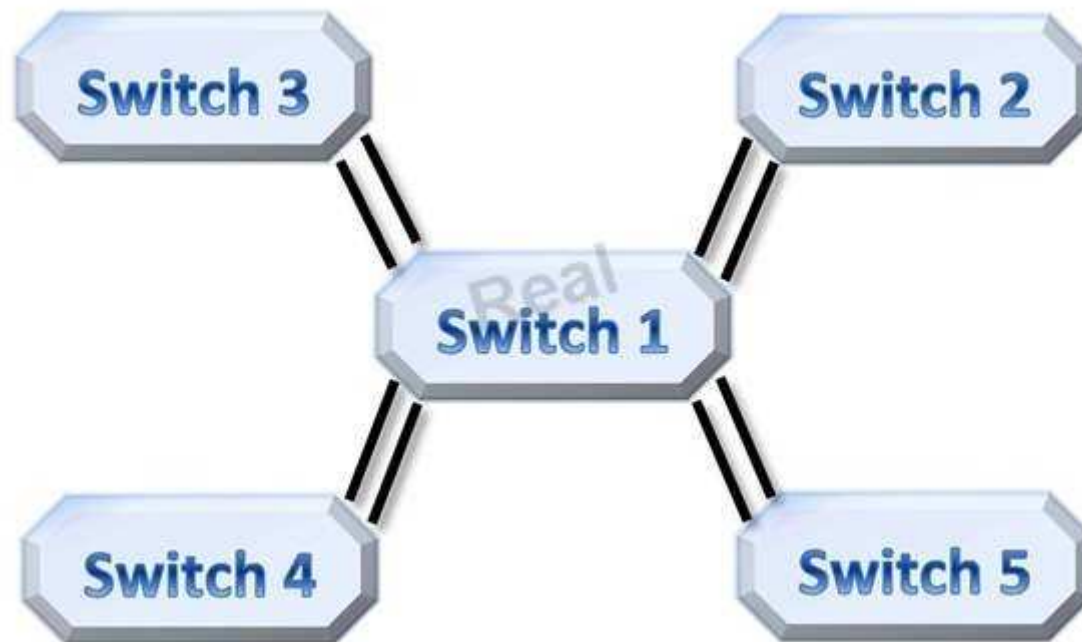
Explanation:

QUESTION 102

-- Exhibit

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-- Exhibit --

Click on the exhibit button. Which of the following is the topology shown in the image?

- A. Core-Edge
- B. Point-to-Point
- C. Full mesh
- D. Ring

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 103

Which of the following is the process of creating logical connections between WWNs in a fabric?

- A. Masking
- B. Sharing
- C. Zoning
- D. Mounting

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 104

Which of the following technologies should an administrator use to share a filesystem between servers in two distant cities?

- A. SAN
- B. DAS
- C. NAS
- D. CAS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 105

Which of the following methodologies should an administrator use to backup a zero-downtime, high-performance application?

- A. Cold backup
- B. DAS
- C. Serverless
- D. Tape-to-disk

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 106

Host-based volume management can be an effective tool for which of the following?

- A. Data migration between tape libraries
- B. Data migration between storage arrays
- C. Oversubscription
- D. Server virtualization

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 107

For which of the following technologies is it extremely important to implement thresholds, monitoring, and trending?

- A. SAN virtualization
- B. QOS
- C. iSCSI
- D. Thin provisioning

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 108

Which of the following are Ethernet based protocols? (Select TWO).

- A. iSCSI
- B. SAS
- C. FCoE
- D. FC
- E. SATA

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 109

Which of the following combinations are valid?



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- A. A SAS Drive can connect to a SATA Backplane
- B. A SATA Drive can connect to a SAS Controller
- C. A SAS Drive can connect to a SATA Controller
- D. A SATA drive can connect to a FC expander

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 110

Which of the following describes the method of placing lesser used data on less costly storage while reserving more expensive storage for more frequently used or valuable data?

- A. Single Instance Storage
- B. Content Addressable Storage
- C. Storage Tiers and HSM
- D. Object Oriented Storage

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 111

Which of the following describes how the process of archiving differs from backup and recovery?

- A. The archive process copies data to disk and the backup process copies data to tape.
- B. The archive process adds redundancy to the dataset.
- C. The archive process moves the data from the primary to a secondary media.
- D. The archive process has no equivalent recovery process to restore data.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 112

Which of the following is an advantage of using single-mode fiber?

- A. Longer distance
- B. Greater turn radius
- C. Sturdier cable plant
- D. Smaller cable

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 113

If network card link light is on and there is no data flow, which of the following might be the problem?

- A. Incorrect configuration on NIC
- B. Not patched correctly
- C. Device not turned on
- D. Wrong cable

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

answer is verified.

QUESTION 114

The ports for a server and storage system are registered with the fabric's name server yet cannot communicate with each other. Which of the following is the MOST likely cause of the issue?

- A. Failed storage system port
- B. Jumbo frames are not supported
- C. Zoning misconfiguration
- D. Incorrect VLAN

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 115

A storage administrator is allocating storage for a new database application. Based on disk provisioning best practices, which of the following is the MINIMUM number of RAID array volumes from a SAN-attached storage system that is needed?

- A. 0
- B. 1
- C. 2
- D. 3

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 116

When implementing a gigabit Ethernet network, which of the following is the MINIMUM category of cable required?

- A. CAT3
- B. CAT5
- C. CAT5e
- D. CAT6

Correct Answer: B

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

QUESTION 117

Which of the following is a danger to computer equipment in an environment that has low humidity?

- A. Water condensation
- B. Component overheating
- C. Static electricity buildup
- D. Performance degradation

Correct Answer: C

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

QUESTION 118

For which of the following would SATA disks be MOST appropriate?

- A. Email operations
- B. Archival data
- C. Database operations
- D. Virtualization

Correct Answer: B

Section: (none)

Explanation**Explanation/Reference:****QUESTION 119**

Which of the following is the BEST option to ensure that throughput is maximized on a SAN?

- A. ISLs should be trunked.

- B. Hosts attached to the SAN should be throttled.
- C. The number of ISL should be decreased.
- D. The number of switches on the SAN should be decreased.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 120

Which of the following is true for load balancing?

- A. Load balancing cannot be provided without an effective RAID configuration.
- B. A dual-port HBA will always provide load balancing.
- C. A dual-port HBA to an array capable of active/active sessions.
- D. I/O sent from a host through two ports to an array will provide load balancing.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 121

Which of the following requirements is necessary to define a disaster recovery plan?

- A. Sync/Async
- B. RPO/RTO
- C. HA/BC
- D. LAN/WAN

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 122

Which of the following media is the BEST option to provide SAN access between an HBA and a storage device, on an 8Gb/s FC network separated by less than 60 meters (196.85 feet)?

- A. Multimode 62.5 micron
- B. SFP+ TwinAX
- C. Multimode 50 micron
- D. Single-mode 9 micron

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 123

At 1Gb/s, multimode fiber cables are capable of carrying Fibre Channel data a MAXIMUM distance of which of the following?

- A. 200 meters (656 feet)
- B. 500 meters (1640 feet)
- C. 1000 meters (3281 feet)
- D. 10 kilometers (6 miles)

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

answer is modified.

QUESTION 124

Which of the following is an administrator defined character string used to indicate a more human readable ID to devices in the network?

- A. World Wide Port Name
- B. Name Service
- C. Alias

D. World Wide Node Name

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 125

On a Fibre Channel switch, port error counters for one storage port show a high number of CRC errors, invalid transmit words, and bad end of frames. Which of the following are the MOST likely causes? (Select TWO).

- A. Failing Switch ASIC
- B. Failing HBA/SFP on storage
- C. Loose or damaged cable
- D. Server is rebooting
- E. HBA driver

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 126

CLI can be used via which Ethernet protocol options? (Select TWO).

- A. SNMP
- B. Telnet
- C. UDP
- D. SSH
- E. HTTP

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 127

Which of the following characterizes block level storage?

- A. Includes ownership and access permissions
- B. Main component of the operating system
- C. Allows the application to use abstract data objects of variable size
- D. Best for high performance database applications

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:**QUESTION 128**

When considering performance values, to which of the following does the term 8Gb FC switch refer?

- A. Switch throughput
- B. Port group
- C. Port speed
- D. Port channel bandwidth

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 129

In a core-edge architecture, which of the following FC switches would be used for the core?

- A. Gateway
- B. Bridge
- C. Router

D. Director

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 130

Which of the following zoning methods is MOST flexible?

- A. Port zoning
- B. WWPN zoning
- C. ISL
- D. Jumbo frames

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

answer is modified.

QUESTION 131

Network adapter teaming provides which of the following benefits? (Select TWO).

- A. Longer cable distance
- B. Decreases latency
- C. Lower CPU utilization
- D. Redundancy
- E. Higher throughput

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 132

Which of the following storage techniques places frequently accessed data on faster media while placing seldom accessed data on slower media?

- A. Defragmenting
- B. De-duplication
- C. Thin provisioning
- D. Tiering

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 133

Which of the following features is enabled when using VSANs?

- A. The ability to allow for different firmware revisions on the same physical switch
- B. The ability to prevent a SAN switch from becoming a single point of failure
- C. The ability to create multiple logical switches within the same physical switch
- D. The ability to route through all ports on the switch

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 134

Which of the following features allows for multiple servers to be backed up to a single tape drive?

- A. Multi-streaming
- B. Compression
- C. Multiplexing
- D. Shoe-shining

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 135

When putting new equipment on a raised floor, which of the following needs to be considered from a safety perspective?

- A. Space requirements
- B. Weight requirements
- C. Cooling requirements
- D. Power requirements

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 136

Which of the following enforces hard zoning within a fabric?

- A. Name Server
- B. Initiator
- C. Target
- D. ASIC

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

answer is modified.

QUESTION 137

For which of the following is NIC Teaming used?

- A. Enabling use of TOE
- B. Fault tolerance
- C. Enabling use of Jumbo Frames
- D. Connecting to multiple VLANs

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 138

Which of the following is MAXIMUM distance for 50 micron multimode fiber at 4Gb?

- A. 10 meters (32.8 feet)
- B. 175 meters (574 feet)



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- C. 800 meters (2624.7 feet)
- D. 2 kilometers (1.24 miles)

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 139

Which of the following is the MAIN goal of ILM?

- A. Provide users with unlimited disk space
- B. Move all the data to the cheapest tier
- C. Move data according to the set policies
- D. Move least used data to the fastest tier

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 140

When the latency between the sites is high, which of the following replication types should be used?

- A. Symmetric
- B. Synchronous
- C. Asymmetric
- D. Asynchronous

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 141

Which of the following BEST describes the pros and cons of using very large SATA drives in a RAID 6 versus a RAID 5 configuration?

- A. PRO: better I/O performance
CON: less protection against multiple disk failures
- B. PRO: more usable disk space
CON: reduced I/O performance
- C. PRO: more usable disk space
CON: longer rebuild times
- D. PRO: protection against multiple disk failures
CON: less usable disk space

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 142

Which of the following identifiers occur in a storage fabric once and is always unique?

- A. Node Symbolic Link Name
 - B. World Wide Port Name
 - C. World Wide Node Name
 - D. Fibre Channel MAC Address
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Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 143

Which of the following terms describes the scenario in a storage system where one or more LUNs have a process run against them to find identical content to reduce the consumed storage?

- A. Post-process deduplication
- B. Thin space reclaim
- C. In-line deduplication
- D. Zero block reclaim

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 144

Which of the following is true of both deduplication and compression?

- A. Data is more resilient to bad blocks and redundancy
- B. Data access is faster for both read and write
- C. Compression and deduplication rates are uniform across data sets
- D. Less physical space is required to store the data

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 145

Which of the following terms describes the situation where a single HBA can represent many World Wide Ports Names on a fabric to give a unique World Wide Port name to a number of hosted virtual machines?

- A. VSAN
 - B. MPIO
 - C. MPLS
 - D. NPIV
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Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 146

A storage administrator has provisioned a LUN from a storage system to a new host and created the appropriate zones. The server administrator now states that the host cannot see the new volume. Which of the following is the FIRST item to suggest the server administrator check?

- A. Determine if the host can ping the storage system.

- B. Check the multipathing level.
- C. Submit a change ticket for another volume.
- D. Verify if LUN masking is enabled on the server.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 147

A FC SAN environment has a single director for each fabric. The SAN administrator wants to separate tape and disk traffic in a very secure manner. Which of the following virtualization methods should be considered?

- A. VLANs
- B. VSANs
- C. NPIV
- D. FC Routing

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 148

When comparing 7,200 RPM disk drives to 15,000 RPM disk drives, the 15,000 RPM disk drives will have:

- A. slower rotational speed.
- B. lower IOPs capability.
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- C. lower latency.
- D. slower throughput.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 149

A storage administrator is troubleshooting a higher than normal failure rate of LTO tapes. The administrator has noticed that most of the failed tapes are associated with hosts backing up large numbers of small files. The root cause for the higher tape failures is MOST likely due to which of the following?

- A. Compression
- B. Hardware encryption
- C. Shoe-shining
- D. Multi-streaming

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 150

Which of the following backup methods would take the LEAST amount of time to complete?

- A. A full and subsequent incremental backup
- B. All differential backups
- C. A full and subsequent differential backup
- D. A full and alternating differential and incremental backup

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 151

Which of the following describes a differential backup?

- A. Backs up all data in the backup set
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- B. Backs up all data in the backup set since the last incremental backup
- C. Backs up all data in the backup set since the last differential backup
- D. Backs up all data in the backup set since the last full backup

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 152

A disk cylinder refers to which of the following?

- A. A vertically aligned track on all disk surfaces within a hard drive.
- B. A vertically aligned sector on all disk surfaces within a hard drive.
- C. The shaft that runs through the center of each disk surface within a hard drive.
- D. The area within the hard drive that encloses all disk platters within the hard drive.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 153

The database group at a highly successful Internet retailer has requested 1TB of space for organic growth in their online order database. The storage array is configured in a RAID 5 configuration. Which of the following is the BEST type of hard drive to use for the RAID array?

- A. 50GB IDE drives
- B. 300GB FC drives
- C. 1TB SATA drives
- D. 3TB SCSI drives

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 154

Which of the following would be the appropriate technology an administrator would use to provision the desired amount of space to a server, while only the utilized disk space is consumed on the storage array?

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- A. Fat provisioning
- B. Volume groups
- C. Virtual provisioning
- D. Concatenated groups

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 155

Which of the following can provide the capability of mirroring a LUN between two storage arrays?

- A. SAN virtualization
- B. De-duplication
- C. Thin provisioning
- D. Virtual SAN

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 156

When setting up queue depths in the below environment parameters:

- A storage device's port queue depth setting is set to 160
- They would like to assign 4 host HBAs to each port

Which of the following depth values would be the BEST to assign to each HBA?

- A. 40
- B. 80
- C. 160+
- D. Default value

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 157

Which of the following is the BEST time to schedule a backup to run on the SAN?

- A. When resources are available and services are idle
- B. At midnight as people are not at work
- C. At noon as most people are not at their desks
- D. When data is being read but not written

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 158

Which of the following drives provides the FASTEST throughput?

- A. FC
- B. SAS
- C. SSD
- D. SATA

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 159

Which of the following backup restore methods takes the LONGEST?

- A. Progressive
- B. Differential
- C. Full
- D. Incremental

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 160

Real 120

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Which of the following devices are considered WORM devices? (Select TWO).

- A. SAS
- B. CD-ROM
- C. SSD
- D. DVD-ROM
- E. SCSI

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 161

Which of the following is a common practice with regards to hot spares on a storage array utilizing RAID?

- A. Hot spares are not recommended
- B. Create one hot spare for every thirty drives in the storage array
- C. Create one hot spare for the entire storage array
- D. Create one hot spare for every drive size and type

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 162

A dual controller head storage array is zoned to two different fabrics. How should the administrator cable up the storage array to ensure redundancy and resiliency?



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- A. ISL the FC switches together
- B. Cable both controller heads to one switch
- C. Have at least one path from each controller head going to each fabric
- D. Cable one controller port to one fabric and the other controller port to a second fabric

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 163

Real 121

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Which of the following topologies is capable of handling up to 127 devices?

- A. Mesh
- B. Arbitrated loop
- C. Switched
- D. Point-to-point

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 164

Which of the following can be used to optimize the bandwidth between connected switches?

- A. Port groups
- B. Trunking
- C. ISL
- D. Routing

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 165

Which of the following is the BEST option to make a complete point-in-time copy?

- A. Snapshot
- B. Synchronous replication
- C. Clone
- D. Mirror

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 166

An administrator is responsible for setting up monitoring of multi-vendor SANs. Which protocol will allow for secure, threshold-based trap alerting?

Real 122

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- A. SMS
- B. SNMPv3
- C. SMI-S
- D. SMTP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 167

Which of the following could be a result of a failed drive in a properly configured storage array? (Select TWO).

- A. SMS to administrator
- B. Unexpected data loss
- C. Controller reboot
- D. Loss of power supply

E. Email to administrator

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 168

After working for the past six months, a server no longer can see its storage. An administrator is aware that a new storage array was installed last night and was made available to this server.

Which of the following should be checked FIRST?

- A. New storage array firmware
- B. Server switch port
- C. Zoning configuration
- D. Storage switch port

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 169

Which of the following replication techniques will protect data from a site failure?

Real 123

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- A. Local clone
- B. Remote clone
- C. Data in-flight encryption
- D. Local snapshot

Correct Answer: B

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

QUESTION 170

Which of the following is an advantage of moving from a small RAID 5 set to a large RAID 5 set?

- A. Increased security
- B. Increased reliability
- C. Increased rebuild time
- D. Increased performance

Correct Answer: D

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

QUESTION 171

The process of replacing a file with a pointer when an identical file is found in more than one location on the host, is which of the following?

- A. Single instance storage
- B. Post-process deduplication
- C. Inline deduplication
- D. Appliance based deduplication

Correct Answer: A

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

QUESTION 172

Which of the following disk drives can be installed into SAS disk enclosures? (Select TWO).

- A. PATA

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- B. SAS
- C. SATA
- D. FC
- E. SCSI

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 173

Which of the following is LVM used for when mirroring or striping?

- A. Mount point
- B. Disk group
- C. Logical volume
- D. File system

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 174

A database is designed to auto-extend its table spaces as data is ingested. Which of following technologies would help optimize storage utilization ratios?

- A. Full disk compression
- B. Thin provisioning
- C. Data and log isolation
- D. Full disk encryption

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 175

A large number of intermittent SCSI errors are suddenly appearing in a host's log, but the storage array has been verified as fully operational. The link lights on the SAN switch connections have been confirmed. Which of the following should a storage administrator check?

Real 125

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- A. Switch zone errors
- B. Port errors counters
- C. FC cable
- D. HBA topology configuration

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 176

Which of the following can be a benefit of Content Addressable Storage?

- A. Virtualize multiple storage arrays
- B. Ease of data sharing
- C. Single instance storage
- D. Highest levels of performance

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 177

Which of the following technologies can help optimize capacity utilization when storing many versions of a large file with few changes in each revision of the file?

- A. Block-level deduplication
- B. File-level deduplication
- C. Single instance storage
- D. Asynchronous replication

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 178

In case of a power outage, to protect the write cache the controller uses an embedded battery system to keep the cache memory viable. Which of the following terms describes this behavior?

Real 126

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- A. Mirrored write cache
- B. Standby power supply
- C. Cache de-staging battery
- D. Battery backed cache

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 179

An administrator is installing a new cable plant in a datacenter. The administrator plans on using 50 micron multi-mode cabling that is in stock. Which of the following needs to be considered when using this cable?

- A. Cable color

- B. Connectors are MIC
- C. Connectors must be LC
- D. Distance

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 180

A SAN administrator has been advised that access to manage storage and switching devices has been changed to a different VLAN for security reasons. The administrator cannot log into one storage system from the management workstation. Which of the following is the MOST likely cause of this issue?

- A. Incorrect firewall settings
- B. Jumbo frames not supported
- C. Incorrect NIC configuration
- D. Zoning misconfiguration

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 181

Real 127

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FCoE achieves higher performance with the use of which of the following?

- A. Data Center Bridging Exchange (DCBX)
- B. Priority tagging
- C. VLAN tagging
- D. Baby-jumbo frames

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 182

Which of the following must a technician create to establish a session between a NAS device and a server?

- A. File system
- B. Zoneset
- C. Fabric
- D. Alias

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 183

Given a limited amount of storage, a technician wants to maximize capacity for multiple hosts and utilization efficiency. Which of the following would BEST achieve this?

- A. LUN load balancing
- B. Encryption
- C. Compression
- D. Thin provisioning

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 184

Real 128

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Which of the following is an advantage of an iSCSI SAN over a FC SAN?

- A. Higher performance
- B. Higher scalability
- C. Lower latency
- D. Lower implementation costs

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 185

Which of the following is the MAXIMUM storage capacity of a dual-layer Blu-Ray disk?

- A. 25 GB
- B. 50 GB
- C. 100 GB
- D. 200 GB

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 186

An administrator has built two storage arrays for a BCDR solution. Each array is in a different datacenter and each datacenter has its own SAN. The SANs will be directly connected to one another via long-wave SFPs. Which of the following cable types should the administrator use to facilitate connectivity?

- A. CAT6
- B. CAT5e
- C. Single-mode
- D. Multimode

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 187

Real 129

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An administrator has just installed a brand new HBA into a host and needs to connect that host to the SAN. Which of the following connector types should be used?

- A. ST
- B. RJ-45
- C. LC
- D. SFP

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 188

An administrator is troubleshooting a server that is intermittently losing access to its disk down a single path. The connected switch port has a lot of errors. The host HBA has appropriate firmware and drivers for its configuration. Which of the following is the MOST likely cause for the recurring issue?

- A. Improper zoning configuration
- B. Storage controller reboots
- C. Improperly seated LC connector
- D. Incompatible switch firmware

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 189

In an FCIP environment where data replication is occurring between two FC SANs communication errors are becoming persistent, and occasionally the link drops. Which of the following would a technician use to monitor and determine when link drops occur?

- A. ping
- B. tracert
- C. nslookup
- D. fcping

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 190

Which of the following distances is supported for 50 micron multimode cable for 4 Gb/s Fibre Channel?

- A. 150 meters (492 feet)
- B. 350 meters (1148 feet)
- C. 600 meters (1968.5 feet)
- D. 2000 meters (6561 feet)

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

answer is verified.

QUESTION 191

A server administrator reports a lot of SCSI transport errors and retries on one server. Which of the following methods, on the Fibre Channel switch, would display these errors?

- A. Review the Zoning for the server.
- B. Run nscamshow show for the server port.
- C. Review the Port Error counters.
- D. Send fcping the server port.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 192

A company has two data centers, 25 kilometers (15.5 miles) apart. Data is replicated from the primary to the secondary site using a method that commits data to storage at both sites before the write is acknowledged to the host. This is BEST described as which of the following?

- A. Asynchronous continuous replication
- B. Synchronous remote replication
- C. Redundant offsite backup
- D. Asynchronous Local replication

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 193

When a single Fibre Channel port can be configured to represent multiple virtual devices on the same physical port, it is known as which of the following?

- A. NPIV
- B. N-port ID
- C. Multiplexing
- D. IQN

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 194

VSAN/Virtual Fabric can BEST be defined as which of the following?

- A. Combining multiple physical switches into a single logical fabric
- B. Configuring multiple ports on a FC switch to a combined ISL path
- C. Assigning multiple logical devices to a single FC F-port
- D. Configuring multiple logical fabrics within a single physical fabric

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 195

In an HSM solution, files are archived to high capacity, high latency disk. To minimize overhead and assure the fastest recall time possible, which of the following should be considered when setting migration policy? (Select TWO).

- A. Larger files should have a higher priority for migration than smaller ones
 - B. Files with the oldest creation date should be migrated first
 - C. Files with the oldest last reference date should have higher priority for migration
 - D. If data criteria are identical, smaller files should be migrated first
 - E. The least referenced files should have higher priority for migration
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Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 196

Which of the following is necessary to ensure power redundancy in a FC SAN?

- A. Multiple HBAs
- B. Adequate division of circuits
- C. Replication

D. Multiple FC switches

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 197

Which of the following FC protocol layers is associated with the physical attributes of an interface and media?

A. FC-0

B. FC-1

C. FC-2

D. FC-4

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 198

Which of the following storage configurations is the MOST secure with regards to unauthorized access to the storage?

A. DAS storage array connected to a single stand alone server

B. NAS storage array attached to an isolated network

C. Hybrid storage array running multi-protocols

D. SAN with different levels of user access enforced by individual passwords

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Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 199

Which of the following protocols is used by a NAS storage array to present file systems?

- A. FCIP
- B. CIFS
- C. FCoE
- D. iSCSI

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

answer is modified.

QUESTION 200

After properly powering and cabling a storage system, some of the drive enclosures are still not available. Which of the following should be checked FIRST?

- A. Faulty drives
- B. Enclosure controllers
- C. Enclosure addressing
- D. Bad cables

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 201

To prevent injury during rack loading which of the following should be implemented?

- A. Non-powered tools
- B. Proper lifting techniques
- C. Antistatic device deployment
- D. Proper device cabling

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 202

A server administrator loses access to several LUNs. When the storage administrator views the array and notices several drives have failed. Reviewing the array logs shows that the drives faulted over several weeks. Which of the following should have been implemented to prevent the current situation? (Select TWO).

- A. Trending
- B. Call home
- C. Forecasting
- D. Setting thresholds
- E. Array alerts

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 203

A previously fully redundant drive enclosure is now showing only a single path on an array. The I/O modules and enclosure connecting cables have all been replaced with known good parts.

Which of the following components has failed?

- A. Enclosure controller
- B. Enclosure address
- C. Faulty drive
- D. Power supply

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 204

When attaching a new host to the fabric, which of the following is created on the switch to easily manage the host?

- A. ISL
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- B. Alias
- C. DNS record
- D. Trunk

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 205

When zoning a new host to a storage array, which of the following is the BEST unique identifier to be included in the zone?

- A. N-port ID of the switch port
- B. Worldwide node name of the initiator
- C. Worldwide port name of the initiator
- D. Worldwide port name of the switch port

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 206

Which of the following is responsible for enforcing soft zoning within a fabric?

- A. Target
- B. Name server

- C. Initiator
- D. Alias

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 207

When configuring a NAS device for access from a Linux client, which of the following is the BEST protocol to use?

- A. iFCP
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- B. CIFS
- C. NFS
- D. iSCSI

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 208

An administrator is setting up a new host in a redundant fabric environment with a storage array capable of sustaining active/active connections. Which of the following is the minimal number of single-port HBAs and which feature should the administrator use?

- A. 2 using MPIO
- B. 4 using LVM
- C. 4 using VTL
- D. 6 using LVM

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 209

Which of the following will allow secure remote login on a managed device?

- A. Telnet
- B. CLI
- C. SSH
- D. HTTP

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 210

Which of the following de-duplication techniques will require less processing power on the host but more initial disk space on the storage array?

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- A. Single instance storage
- B. Inline
- C. Agent based
- D. Post-process

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 211

An administrator is troubleshooting an outage in which a core switch in one of the redundant fabrics has failed. The servers connected to one of the storage arrays lost access to their assigned LUNS, while servers with LUNs assigned from other storage arrays continue to have access.

Which of the following caused the outage?

- A. The array controllers were not configured for failover.
- B. The array has only one controller.
- C. All controllers of the array are connected to the failed fabric.
- D. Servers' redundant HBAs have incompatible firmware.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 212

Given a scenario in which a higher than average number of disk failures are observed in one particular corner of a datacenter floor, which of the following is the MOST likely cause?

- A. Inadequate division of power circuits
- B. Inadequate number of cables
- C. Inadequate cooling
- D. Inadequate floor support

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 213

Two storage arrays in distant datacenters are required to communicate via the same subnet,

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which of the following technologies would facilitate this?

- A. NPIV
- B. VSAN

- C. VLAN
- D. FCoE

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 214

Which of the following technologies has the potential to result in significantly higher utilization of a SAN switch port?

- A. NPIV
- B. FCoE
- C. VSAN
- D. Multipathing

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 215

Which of the following is an indication of good storage array read performance?

- A. 90-100% CPU utilization
- B. 90-100% adapter port utilization
- C. 90-100% disk utilization
- D. 90-100% read cache hit

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 216

When defining zones on FCoE and FC fabrics, which of the following concepts are optional?

- A. Active configuration
- B. Zoneset
- C. Alias
- D. Zone

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

answer is modified.

QUESTION 217

When zoning an FC or FCoE device, which of the following identifiers would BEST be used to define the zone members?



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- A. World Wide Node Names
- B. SCSI GUID
- C. Initiator-Target UUID
- D. World Wide Port Names

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 218

Which of the following is a valid reason to use dual single-port HBAs instead of a single dual-port HBA?

- A. To survive a cable fault with multipathing drivers installed
- B. To survive a storage array failure
- C. To run different versions of drivers on each HBA
- D. To survive a complete HBA failure

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 219

Which of the following would be implemented in a software management tool to define boundaries that generate notifications?

- A. Audit logs
- B. Baselines
- C. Thresholds
- D. Events

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 220

Which of the following describes the type of encryption supported by LTO tape drives to protect data in transit between a datacenter and an off-site storage facility?

- A. IEEE 802.5z based encryption
- B. IPSec based encryption
- C. Data-at-Rest encryption
- D. Data-In-Flight encryption

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 221

Assuming that unique keys exist for each tape backup job, which of the following is the BEST advantage of using Tape encryption in regards to expiring tapes?

- A. Tapes that are expired only need to be reformatted to make the data inaccessible.
- B. Tapes that are expired only need the keys destroyed to make the data inaccessible.
- C. Tapes that are expired only need to be overwritten without reformatting to make the data inaccessible.
- D. Tapes that are expired must be degaussed to make the data inaccessible.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

answer is corrected.

QUESTION 222

Which of the following is a term used to describe the access type used to populate data on a tape drive?

- A. Block level
- B. WORM
- C. Tape object level
- D. File level

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 223

Another server needs to be added to an FC SAN and the server must provide load balancing. Which of the following must be installed in the server?

- A. HBA (1 port)
- B. HBA (2 port)
- C. NIC (2 port)
- D. NIC (4 port)

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 224

A technician is adding a server to a demo room, will be using the current cable plant from the datacenter, and has added a cable to reach the server. The technician keeps losing server connection, but the link remains up. Which of the following could be the problem?

- A. Incorrect VLAN
- B. Incorrect configuration on the demo
- C. The cable distance is too long
- D. Incorrect network is being used

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

answer is verified.

QUESTION 225

A director with a highly available configuration will have which of the following power supplies installed at a MINIMUM?

- A. $N + 1$
- B. N
- C. $2 * N$
- D. $N + 2$

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 226

The specification of disk drives used in a storage system lists an average of 200 read IOPS per drive. Which of the following should be expected of an 8 drive RAID 5 array?

- A. 1000
- B. 1200
- C. 1400
- D. 1600

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 227

Data needs to be mirrored from the primary datacenter to the DR site 800km (497mi) away. Which of the following replication methods should the administrator consider FIRST?

- A. Shipped tapes
- B. Asynchronous
- C. Snapshots
- D. Synchronous

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Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 228

A storage administrator has created a ruleset to determine the appropriate storage tier when storing new data in a tiered storage solution. The administrator notes later that the default tier is receiving all of the new data. Which of the following should the administrator perform FIRST?

- A. Add a new storage tier to the solution
- B. Check the order of the rules
- C. Enlarge the capacity of the default tier
- D. Eliminate the default rule

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 229

A new FCoE solution is experiencing random connectivity issues between many servers and their storage. Which of the following should the SAN administrator check FIRST?

- A. Implement a router to bridge between FCoE and FC devices
- B. Replace the forwarder with a director and FCoE line module
- C. Inspect the cables and replace as necessary
- D. Configure the forwarder to NPIV mode of operations

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 230

A datacenter has 100 TB of Tier 1 storage, 600 TB of Tier 2 storage and a large tape library. HSM is moving data from Tier 1 to Tier 2 at the rate of 5 TB per month, while 10% of Tier 2 data is transferred to tape per year. The storage administrator is asked to forecast the amount of new Tier 2 storage that will be needed over the next two years. Which of the following does the administrator report?

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- A. 0 TB
- B. 5 TB
- C. 60 TB
- D. 120 TB

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 231

The switches in one fabric, in a redundant FC environment, were recently moved. A subset of hosts lost all connectivity to their SAN-attached disk resources during the move. Which of the following should the administrator have checked BEFORE starting the move?

- A. Quiesce the mission-critical applications.
- B. Ensure the MPIO version is up-to-date.
- C. Verify all host paths to storage are active.
- D. Enable all switches in the redundant fabric.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 232

Which of the following is the BEST way to maintain the operational environment in a datacenter?

- A. Seal the room so the outside environment has less impact on the datacenter environment.
- B. Run the systems in "low-power" mode to put less strain on the HVAC unit(s).
- C. Open the doors to the datacenter and run large fans to pull hot air away from the room.
- D. Provide one-for-one backup (n + n) HVAC units so each unit operates more efficiently.

Correct Answer: A

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

QUESTION 233

Which of the following commands is BEST used to determine network performance on a system running UNIX/Linux?

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- A. netstat
- B. route
- C. arp
- D. ifconfig

Correct Answer: A

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

QUESTION 234

A DBA has notified the storage administrator that a well-established, long-running database server is experiencing delays writing to /tempdb, where log files are stored. Which of the following should the administrator look at to help determine root cause? (Select TWO).

- A. Read queue length
- B. Replication status
- C. Write queue length
- D. netstat
- E. perfmon

Correct Answer: CE

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

QUESTION 235

An administrator has cabled a server up to an FC SAN in a fully redundant manner. When cabling and logical assignment tasks are complete, however, the host only sees

one path to its LUN. Which of the following is the MOST likely cause for the issue?

- A. A zone for the second path is missing
- B. There are too many storage controllers in-band
- C. The LUN is not being mirrored
- D. The host does not have a dual-port HBA

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 236

The application group wants to move old data from their primary file system to the new volume, while keeping it available for reporting. The storage team is MOST likely to create the new volume on which of the following disk types?

- A. FC
- B. SATA
- C. SSD
- D. SAS

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

answer is corrected

QUESTION 237

A storage administrator has reclaimed several LUNs from an old server that was decommissioned. All LUNs were reclaimed from the same 8+1 RAID 5 group. Which of the following can the administrator do to improve performance for the remaining LUNs?

- A. Reinitialize the disk
- B. Defragment the group
- C. Move the group to another controller
- D. Recreate the group

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 238

A SAN administrator created a new zone for a server to access new LUNs on an existing storage array. The server administrator rescans the server bus and reports that they cannot find the storage that was allocated for this new server. The SAN administrator verified that the server ports are logged into the fabrics. Which of the following BEST explains the issue?

- A. The HBAs used in the server are from an unqualified vendor.
- B. The new zoning configurations were not committed to the fabrics.
- C. The server was not rebooted after the configuration was changed.
- D. The cables for the storage are not connected to the correct switch.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

answer is verified.

QUESTION 239

The administrator sets thresholds for a specific counter. When the threshold is reached, which of the following should happen FIRST?

- A. The port will shut down.
- B. An event will generate in the log.
- C. An alarm will sound in the datacenter.
- D. The switch will be configured offline.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 240

Setting thresholds for Tx/Rx on E-ports so that the administrator can log alerts for this value will be a good way to:

- A. predict when the servers have reached capacity.
- B. predict when more ISLs are needed.
- C. know when the storage array is full.
- D. know when it is time to replace fiber cables.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 241

The feature in FC switches that allows configuration of multiple logical switches to exist on one chassis is called:

- A. VM.
- B. VLAN.
- C. VSAN.
- D. virtual switch.

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Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 242

SNMP is an IP protocol used for:

- A. creating zoning and changing system configuration.
- B. sending email notifications directly from the storage array.
- C. changing the default management server.
- D. monitoring and managing equipment.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 243

When connecting two FC switches using FCIP across an IP circuit, which of the following ensures that the FC frames are not segmented?

- A. Link aggregation
- B. TOE
- C. Jumbo frames
- D. Dedicated links

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 244

In a performance tiered storage environment, which of the following types of data should reside on the top tier?

- A. Data requiring high I/O
 - B. Encrypted data
 - C. Mission critical data
 - D. Frequently archived data
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Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 245

In an HSM archive application, which of the following is the BEST candidate for migration?

- A. A 1 MB file that is 360 days old.
- B. A file stored on a server that will expire in 10 days.
- C. A 250 MB file that has not been referenced for 90 days.
- D. A 1 MB file that is 120 days old.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 246

A SAN administrator is adding a new server with dual HBAs to a fully redundant SAN. After committing the zoning changes, several servers lost half their connectivity to the storage. Which of the following is the cause of the issue?

- A. The new zone was incorrectly configured on one of the fabrics.
- B. The new zone was incorrectly configured on both fabrics.
- C. The administrator has zoned several initiators in the same zone.
- D. The administrator activated the wrong zone set on one of the fabrics.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 247

Which of the following is the purpose of ISL?

- A. To increase the performance of the HBAs
 - B. To expand the iSCSI fabric
 - C. To expand the Ethernet network
 - D. To expand the FC fabric
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Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 248

Which of the following is required for the proper environment of a storage array?

- A. Halon
- B. HVAC
- C. Solar panels
- D. Biometric authentication

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 249

An administrator installed a new NIC into an existing older server. The NIC is not properly recognized by the OS. Which of the following is MOST likely the problem?

- A. The server does not have enough power.
- B. The driver needs to be installed.
- C. The server has a virus.
- D. The operating system needs to be reinstalled.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 250

Which of the following is a component of LVM?

- A. Volume group
- B. An initiator
- C. RAID group
- D. Zone set

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 251

Which of the following is the purpose of VLAN technology?

- A. It allows FCoE to act like an iSCSI SAN.
- B. It allows for segregation of traffic within a physical network.
- C. It allows iSCSI SANs to function as FCP SANs.
- D. It allows a physical network to behave as if it is a VSAN.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 252

Which of the following is MOST likely required to have true site redundancy?

- A. DR site in another region on a separate power grid
- B. DR site utilizing only HA storage arrays
- C. DR site in the same city
- D. DR site utilizing storage arrays with SSD drives

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 253

Which of the following RAID levels would allow a technician to take advantage of distributed parity and lose any two drives in a RAID group without losing data?

- A. RAID 0+1
- B. RAID 1+0
- C. RAID 5
- D. RAID 6

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

answer is valid.

QUESTION 254

Which of the following port combinations is correct for a link between an FC router and a switch?

- A. Router port is EX and the switch port is EX
- B. Router port is EX and the switch port is E
- C. Router port is E and the switch port is EX
- D. Router port is E and the switch port is E

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 255

In order to decrease the amount of time required to backup hosts, disk drive arrays can be used to simulate tape drives for backup. Which of the following can be used for this purpose?

- A. VTL
- B. DAT
- C. ATL
- D. LTO

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 256

An administrator would like to lower storage costs by only keeping frequently accessed data on FC disks, less accessed data on low cost SATA disks, and seldom accessed data on optical media.

Which of the following should be deployed?

- A. CAS
- B. DAS
- C. HSM
- D. Archiving

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

answer is valid.

QUESTION 257

When considering an HA FC environment, a Single Point of Failure (SPOF) between the storage and the server is:



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- A. acceptable when a loop device is connected to dual ports in the fabric.
- B. not acceptable within either fabric.
- C. acceptable when the same name server is installed on all switches.
- D. not acceptable unless each fabric has a different SPOF.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 258

Which of the following represents a best practice in an HA FC environment?

- A. Dual fabrics
- B. Dual port HBA installed on a host
- C. Single HBA installed on a host
- D. Director class switch

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 259

The same LUN can be mapped to multiple servers only if which of the following conditions are satisfied?

- A. Both servers are running the same operating system
- B. File system on the LUN is cluster aware
- C. More bandwidth is required to satisfy customer requirements
- D. Multiple servers require access to the same data

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

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Explanation:

QUESTION 260

Which of the following is one advantage of using TOE?

- A. Increases routing complexity
- B. Requires use of jumbo frames
- C. Decreases CPU utilization
- D. Decreases network throughput

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 261

In order to enable Linux hosts to access a NAS share, which of the following protocols MUST be enabled?

- A. NFS
- B. SSH
- C. Telnet
- D. CHAP

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 262

Which of the following, when enabled on all devices, will decrease the number of packets sent on the network?

- A. Class of Service
- B. Jumbo Frames
- C. Quality of Service
- D. Link Aggregation

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

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Explanation:

QUESTION 263

In order to avoid shoe-shining, which of the following techniques can be used?

- A. De-duplication
- B. Multistreaming
- C. Compression
- D. Multiplexing

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 264

In a fully redundant dual fabric environment, the core switch in one of the fabrics fails. None of the servers can access their LUNs. Which of the following is a possible cause of this issue?

- A. Storage controllers were only connected to a single fabric.
- B. The fabric is using port zoning.
- C. There are not enough buffer-to-buffer credits.
- D. All of the LUNs were only zoned to a single fabric.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 265

Which of the following technologies has the FASTEST hard drive interface?

- A. SATA
- B. FC
- C. SAS-2
- D. SCSI-3

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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QUESTION 266

Best zoning practice dictates that each zone can only contain a single:

- A. initiator.
- B. alias.

- C. target.
- D. name server.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 267

While reviewing a new installation the storage administrator notices that a number of FC cables have excess length that is tightly looped. Of which of the following would this be an example? (Select TWO).

- A. Standard installation practices
- B. Cabling per vendor recommendations
- C. Poor cabling installation practices
- D. Increasing performance by reducing distance
- E. Exceeding recommended bend radius

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 268

Which of the following devices would allow a storage administrator to implement Fibre Channel over Ethernet (FCoE)?

- A. NIC
- B. HCA
- C. HBA
- D. CNA

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Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 269

Which of the following would be BEST to ensure data immutability?

- A. Flash drive
- B. LTO-2
- C. Disk drive
- D. WORM

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 270

During a power outage of a datacenter, a storage array did not shut down in a vendor's recommended fashion. When power is restored, the servers connected to the array indicate that the file systems are in a corrupted state. Which of the following was the MOST likely cause for this?

- A. Enclosure addressing has changed when power was restored
- B. An array controller failure has occurred
- C. The array controller read/write cache is faulty
- D. The switches were not shutdown gracefully

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 271

High availability in a storage environment implies that:

- A. a single instance of each component is used.
- B. all volumes are using RAID-0.
- C. a single controller is used in all arrays.
- D. there is no single point of failure.

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Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 272

While testing access to Server A on a remote subnet, a storage administrator is unable to connect from their workstation. The administrator is only able to connect to Server B which resides on the same subnet as their workstation. A coworker is able to access Server A from their workstation. Which of the following is MOST likely misconfigured?

- A. Firewall rules
- B. Faulty network cable
- C. VLAN
- D. IP address

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 273

When Server A accesses an FC based storage array, it experiences a coredump. Server B accesses the same array, and does not experience this issue. Which of the following should the administrator check FIRST?

- A. Cable from the server
- B. Switch firmware
- C. Zoning
- D. HBA drivers

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 274

How many physical paths are supported on a SAS drive?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 275

How many initiators per zone should be used to adhere to BEST SAN zoning practices?

- A. One
- B. Two
- C. Four
- D. Unlimited

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 276

Which of the following protocols would be used on a host to access network share called \\server1.chicago.net\data?

- A. FCoE
- B. CIFS
- C. FC
- D. iSCSI

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 277

If a server reads 2MB of data using 4KB block size in 1 second from a storage array, how many IOPS have been generated?

- A. 256
- B. 512
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- C. 768
- D. 1024

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 278

Which of the following would BEST ensure equal I/O distribution across all paths?

- A. Active passive
- B. Active active
- C. Most recently used

D. Round robin

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 279

When trying to connect with a damaged network cable, which of the following will MOST likely result from the bad cable?

- A. Host not found
- B. Permission denied
- C. Packet loss
- D. Connection denied

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 280

If the nslookup command is not available on the host, which of the following is the BEST command to resolve fully qualified domain name to IP address of a remote host?

- A. ping
- B. ifconfig
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- C. vmstat
- D. iostat

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 281

After an overnight upgrade during which equipment was moved, a server has become very slow in the fabric and the error rate is high. Which of the following should a technician check FIRST to find the problem?

- A. HBA drivers in the server
- B. Ethernet cable from switch to server
- C. Port configuration on the FC switch
- D. Fibre cable from switch to server

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 282

Which of the following measures the performance overhead in an ISL between two switches?

- A. Bandwidth
- B. Latency
- C. Multipathing
- D. Hop

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 283

Which of the following RAID levels can be implemented with three hard drives but has the HIGHEST latency? (Select TWO).

- A. RAID 0
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- B. RAID 1
- C. RAID 3
- D. RAID 4
- E. RAID 5

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 284

A biometric device is BEST used for which of the following purposes?

- A. Disk compression
- B. LUN masking
- C. Physical access
- D. File permissions

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 285

A user can connect to a shared folder on a NAS device, but cannot access any files inside of the folder. Which of the following security settings need to be changed to grant the user access to the files?

- A. Encryption keys
- B. Share permissions
- C. File permissions
- D. LUN masking

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 286

Which of the following documentation should be referenced FIRST when deciding how long to retain backup data?

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- A. Offsite storage contract
- B. Standards compliance
- C. Industry best practices
- D. Corporate compliance

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 287

Which of the following protocols is MOST likely used to generate events for review by an administrator?

- A. SNMP
- B. HTTP
- C. SMI-S
- D. WBEM

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 288

A storage administrator has just installed a new SAN. Which of the following should the administrator establish for performance monitoring purposes?

- A. Capacity planning
- B. Free space thresholds
- C. Baseline
- D. Used space thresholds

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 289

A new storage system with dual storage controllers is added to an HA SAN. The storage administrator attempts to zone a dual HBA host to the new storage system but can only connect to the first storage controller on HBA0 and the second storage controller on HBA1. After checking to

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ensure the link light is on for the fiber cable connecting the storage to the switch, which of the following should be checked NEXT?

- A. That multipath software has been installed and configured on the host
- B. That the SFP connectors are on the fibre channel switches
- C. That a port from each storage controller is connected to each fabric
- D. That the fiber cables from the host HBAs are connected to the switch ports

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 290

Which of the following RAID levels offers the HIGHEST level of protection with the shortest rebuild time?

- A. RAID 3

- B. RAID 5
- C. RAID 6
- D. RAID 10

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 291

The disk drives supporting an I/O intensive mission critical application are continuously 80 percent utilized and spike up to 100 percent throughout the business day. Which of the following options can improve the application performance? (Select TWO).

- A. Use higher speed server HBAs.
- B. Use dedicated SATA drives.
- C. Move the application to SSD.
- D. Add additional HBAs to the host.
- E. Move the application to short stroke FC drives.

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

answer is up-to-date.

QUESTION 292

A Chief Information Officer (CIO) has determined that creating a highly available environment is desirable, but budget concerns will dictate what redundancy is added in the near future. Which of the following should the SAN administrator recommend? (Select TWO).

- A. Implement a VTL backup solution
- B. Install a secondary storage array for mirroring data
- C. Install multiple port HBAs on SAN-connected servers
- D. Install duplicate storage array controllers
- E. Deploy switches to provide a secondary fabric

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 293

A dual-controller, active/active storage array is servicing I/O for 10 mission-critical systems. Controller A loses power and fails and all traffic is immediately routed to controller B and all pending writes from controller A have been committed to disk without issue. Which of the following features describes this functionality?

- A. Battery backed cache
- B. Data Mirroring
- C. Cache Mirroring
- D. Disk Mirroring

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 294

A server is attached to a dual-controller array via a single port HBA. The fabrics are fully redundant and connected to each of the array controllers in an appropriate fashion. Which of the following is necessary to provide load balancing on the server?

- A. A second HBA must be installed on the server and attached to the second fabric.
- B. Both fabrics must contain the same number of switches at the same firmware level.
- C. The server should be clustered and attached to a secondary array.
- D. Both array controllers must have ports available in each fabric.

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Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 295

An administrator has just archived 50 percent of a file share's data to tape. The administrator then proceeds to clear the unused space so that it is available for use by the server and array. On the array, the original LUN was provisioned in a way that allows such an operation. This process is called which of the following?

- A. Thin provisioning
- B. VLAN configuration
- C. Thin reclamation
- D. VSAN configuration

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 296

An environment includes an active/passive array and 2Gbps ports for the array controllers, switches, and host HBAs. The SAN is fully redundant and highly available. A new host is attached and LUNs are assigned to benchmark throughput. Which of the following is the HIGHEST throughput the administrator can expect?

- A. 2Gbps
- B. 4Gbps
- C. 6Gbps
- D. 8Gbps

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 297

The backup regimen for a file server is to run a full backup every Sunday and cumulative incremental backups Monday thru Saturday evenings. On Wednesday morning, the server and storage are lost in a catastrophic event. Assuming a different backup tape is used every day, how

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many tapes are required to recover the server?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 298

Which of the following is a protocol that enables serverless backup?

- A. SMTP
- B. SNMP
- C. NDMP
- D. SMPTE

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 299

A technician has completed a replacement of the customer's 1Gbps FC switches with new 4Gbps FC switches. All HBAs in the servers and storage arrays were also upgraded. To save money, the customer installed into the original cable plant. After all zoning changes were completed, and devices were brought online, the servers are not able to connect properly to the storage arrays.

Which of the following is the MOST likely problem?

- A. The servers are not running the correct operating system to use 4Gbps.
- B. Zoning needs to be changed for the new switch Domain IDs.
- C. The cable plant is not up to specification for the 4Gbps data rates.

D. The storage arrays do not support the new adapter firmware.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 300

The name server shows an FC switch port connected to a VM Server with 6 different WWPNs. This is an example of which of the following?

- A. Multipathing
- B. VSAN
- C. Virtual fabric
- D. NPIV

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 301

When connecting two Fibre Channel switches using different domain IDs, which of the following would be used?

- A. ISL
- B. DSL
- C. Trunking only
- D. Port channel

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 302

Given that a particular de-duplication solution stores 1TB of data using only 140G of space, which of the following is the resulting de-duplication ratio?

- A. 7: 1
- B. 10: 1
- C. 70: 1
- D. 100: 1

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

answer is modified.

QUESTION 303

A server administrator has been asked to move data between two different vendor storage arrays. The LUN from the target array has been provisioned and is slightly bigger than the LUN from the source array. The application must remain online during the entire migration process, including removing the source array LUNs. Which of the following methods would be MOST appropriate?

- A. Use array based replication to make a block based copy of the data.
- B. Use an operating system based file copy tool to move the data to a new file system.
- C. Restore a copy of the data on to the target LUN from a recent backup.
- D. Use an LVM to create a host mirror between the source and target LUNs.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 304

An appliance that receives a data file and returns a file identifier based on the signature of the file is an example of which of the following storage devices?

- A. Tape
- B. NAS
- C. VTL

D. CAS

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 305

An administrator has a requirement to monitor a particular piece of equipment with a monitoring tool utilizing Read Only community strings. Which of the following describes this example?

- A. CHAP
- B. Kerberos
- C. SMI-S
- D. SNMP

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

answer is corrected.

QUESTION 306

A particular application has a need for two different types of data to be stored. One part of the application generates small block, highly random I/O, while another part of the application generates large block, sequential I/O. Which of the following provides the BEST combination of performance and cost effectiveness?

- A. SAS for small block/random I/O, SATA for the large block/sequential I/O
- B. SATA for small block/random I/O, SAS for the large block/sequential I/O
- C. SATA for both types of I/O
- D. SAS for both types of I/O

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 307

Which of the following allows multiple hosts that are connected to the same storage array to only access their assigned storage?

- A. VLANs
- B. LUN masks
- C. Zones
- D. VSANs

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 308

A technician has been tasked with adding equipment to a rack. Which of the following should be followed to minimize the chance for injury while installing the equipment?

- A. Proper lifting techniques
 - B. Hot-cold aisle implementation
 - C. ESD straps
 - D. Proper redundant power distribution
- Real 171
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Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 309

Storage arrays that are used with backup applications and emulate tape systems is commonly referred to as which of the following?



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- A. D2D2T
- B. VTL
- C. LTO
- D. ATM

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 310

Which of the following could be referenced to determine if a host HBA has properly registered in an FC fabric?

- A. Alias server
- B. Fabric service
- C. DNS
- D. Name server

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 311

An administrator needs to increase performance of the current storage array. All of the bays are full so the administrator needs to replace the current 450GB 10k FC drives without decreasing capacity. Which of the following will achieve this goal?

- A. 300GB 10k SATA drives
- B. 300GB 10k FC drives
- C. 450GB 7.2k SATA drives
Real 172
CompTIA SG0-001 Exam
- D. 450GB 15k FC drives

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 312

Which of the following controller functions allows uncommitted writes to be protected during storage controller failover in a dual controller array?

- A. Cache mirroring
- B. Battery backed cache
- C. Cache de-staging
- D. Cache re-initialization

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 313

An administrator wants to achieve MAXIMUM component redundancy in a server running single quad-headed HBA. Which of the following will satisfy this goal?

- A. Replace quad-headed HBA with 2 dual-headed FCoE adapters.
- B. Replace quad-headed HBA with 2 dual-headed HBAs.
- C. Replace quad-headed HBA with 2 single-headed HBAs and 1 dual-headed.
- D. Replace quad-headed HBA with 4 single-headed HBAs.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 314

Which of the following redundant components is utilized during partial electrical failures?

- A. NICs
- B. PDUs
- C. HVAC
Real 173
CompTIA SG0-001 Exam
- D. HBAs

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 315

To ensure ongoing communication between a server and a storage network, the server should be connected to at least two separate:

- A. switches.
- B. power supplies.
- C. storage arrays.
- D. ISLs.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 316

In order to provide additional protection to a RAID group, which of the following should the administrator use?

- A. Distributed parity
- B. Cold spare
- C. Dedicated parity
- D. Hot spare

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 317

In which of the following is a single connection acceptable for a storage network?

- A. Connecting to Ethernet virtual fabric
- B. Connecting to FC-SW
Real 174
CompTIA SG0-001 Exam
- C. Connecting to a dedicated VLAN
- D. Connecting to FC-AL

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 318

Which of the following disk types is MOST cost effective for near line storage?

- A. SATA
- B. SSD
- C. SAS
- D. SCSI

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 319

Which of the following would be an indicator that a storage array is properly handling read requests?

- A. High disk drive latency
- B. High cache hit rate
- C. Green environment indicators
- D. Low cache hit rate

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 320

An administrator needs to present the same LUN to multiple servers. Which of the following will support the requirement? (Select TWO).

- A. All servers are running the same operating system.
- B. The file system on the LUN is cluster aware.
Real 175
CompTIA SG0-001 Exam
- C. All but one of the servers is READ only.
- D. All HBAs are running the same firmware version.
- E. All servers are part of the cluster.

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 321

A storage administrator notices that a server is intermittently losing access to its storage over a single path. Which of the following statistics on an FC switch would have a high count value in this situation?

- A. Core PID
- B. Rx error count
- C. dB levels
- D. Loss of signal

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 322

To increase storage performance, a storage administrator is setting up a new LUN for an application. This application usually has a high number of reads compared to the number of writes being performed. Which RAID level would provide the BEST performance for this volume, while still maintaining fault tolerance?

- A. RAID 0
- B. RAID 1
- C. RAID 5
- D. RAID 6

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 323

A storage administrator is auditing an environment and finds that an unknown person accessed

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the company silo and removed a number of tapes. These tapes had sensitive company IP and PII on them, now putting the company in a legally precarious situation. Which of the following could the administrator do to ensure that lost data is not usable by an unauthorized person in the future?

- A. Password encryption
- B. Tape encryption
- C. Disk encryption
- D. Network encryption

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 324

A storage administrator is receiving reports that nightly backups are impacting system performance during the beginning of the business day. All servers are backed up via the network to a backup server that writes directly to tape. Network administrators indicate there is plenty of bandwidth to the backup server even when the system slows down. Which of the following can be implemented to BEST speed up backups?

- A. Install a disk-to-tape solution
- B. Install a faster network link to the backup server
- C. Increase the number of tapes available
- D. Add a second backup server

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 325

Which of the following technologies would work BEST for a company spread across a number of locations in a city to connect all their networks?

- A. MAN
- B. WAN
- C. LAN
- D. VLAN

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

answer is verified.

QUESTION 326

An administrator is attempting to recover corrupted data from a four disk RAID group. However, the administrator does not know which RAID level was used. When investigating the volumes, the administrator notes that there is a duplicate of all data on two of the disks. Which of the following RAID levels was in use?

- A. RAID 0
- B. RAID 5
- C. RAID 6
- D. RAID 10

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 327

Given an array with sixteen 300GB drives, a storage administrator needs to know how much raw usable space can be made available while still maintaining a highly available RAID configuration with two hot spares. Which of the following is the MAXIMUM capacity that can be allocated and at which RAID level?

- A. 2.1TB, RAID 1
- B. 3.6TB, RAID 6
- C. 3.9TB, RAID 5
- D. 4.8TB, RAID 0

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 328

When gathering simple baseline statistics for a storage array, a storage administrator should gather which of the following? (Select TWO).

- A. Read/Write errors
- B. Number of switches connected
- C. Reads/Writes performed
- D. Read/Write throughput
- E. Port loss of signal counts

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 329

A server has dual power supplies, dual mirrored hard drives, multi-pathed multiple NICs, and a dual port HBA for access into a SAN. Which of the following components is a single point of failure?

- A. Power supplies
- B. HBA
- C. NICs
- D. System hard drives

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 330

A new storage array is being cabled into a rack. The array has dual controllers, each disk tray has dual power supplies, and there are two in-rack PDUs (C and D). Which of the following is the BEST method for hooking up power?

- A. Connect controller A's PSUs to PDU C, controller B's PSUs to D, alternate drive trays between PDUs C and D.
- B. Connect all drive tray PSUs to C and all controller PDUs to D.

- C. Connect both controller's PSUs to C and all drive tray PSUs to D.
- D. Split all PSU connections between C and D equally.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 331

An administrator needs to assign LUN IDs for two new LUNs from the same storage array. The

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first LUN is being presented as LUN 0 to multiple hosts. The second LUN is being dedicated to a single server which is also included in the group of hosts LUN 0 is presented to. Which of the following is the LOWEST LUN ID that can be assigned to the second LUN?

- A. 0
- B. 1
- C. 2
- D. 16

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 332

In a direct current only datacenter, which of the following is the MOST important rack installation concern?

- A. Sufficient power capacity
- B. Adequate division of circuits
- C. Adequate humidity control
- D. Grounding of all components

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 333

Which of the following are the MOST important properties to remember when replacing a faulty SFP? (Select TWO).

- A. SFP TX power
- B. Distance rating
- C. Port speed
- D. SFP RX power
- E. Driver version

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

answer is modified.

QUESTION 334

Which of the following is the MOST important item a storage administrator should check FIRST for a successful fabric merge?

- A. Faulty SFPs in the switch
- B. Number of aliases in the zoning database
- C. Domain IDs
- D. Total number of ports in the combined fabric

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 335

Which of the following protocols transmits a password in clear text on the network during the login process?

- A. SFTP
- B. SSH
- C. Telnet
- D. HTTPS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 336

A switch with 8Gb ports has been connected with five hosts running at 4Gb speed and two at 2Gb speed. If the switch is communicating through an ISL with another 8Gb switch where the storage array is connected, which of the following will be the oversubscription ratio of this configuration?

- A. 1: 1
- B. 2: 1
- C. 3: 1
- D. 5: 1

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

answer is corrected.

QUESTION 337

An administrator is tasked to programmatically create twenty 64GB LUNs and one 1GB LUN to be assigned to a four node cluster. Which of the following tools should be used to satisfy the request?

- A. CLI
- B. SMI-S
- C. GUI
- D. SNMP

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 338

A senior administrator configuring a firewall would like to know the IP address of a frequently accessed website to verify that site was not accidentally blocked in the content filter by the junior administrator's recently-added range of blocked IP addresses. Which of the following tools would be used to find the IP address of the website?

- A. ipconfig/ifconfig
- B. nslookup
- C. netstat
- D. tracert/traceroute

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 339

A user reports lack of network connectivity on a laptop. No hardware changes have recently occurred on the laptop. Which of the following should the technician check FIRST?

- A. Port
 - B. Cable
 - C. Firewall
 - D. NIC configuration
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Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 340

A small business would like to install their new storage equipment in a closet off of their pool deck. Which of the following environmental concerns should a technician consider FIRST?

- A. Fire suppression
- B. Humidity control
- C. Sufficient power
- D. Rack loading

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 341

Which of the following RAID levels provides the BEST guarantee that data will be retained in the event of drive failure without requiring a rebuild?

- A. RAID 0
- B. RAID 1
- C. RAID 3
- D. RAID 5

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 342

Which of the following is used to forward traffic from internal IP addresses to external IP addresses?

- A. Hub
- B. Router
- C. CNA
- D. NIC

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 343

A client has requested a new 4TB storage system. They need redundancy built in as well as some scalability. This should be attached to the current network, consisting of SAS and SCSI based servers, on a copper gigabit network. Low price is crucial. Which of the following would be the BEST solution?

- A. A Fiber Channel SAN containing five 1TB FC drives in a RAID 5 configuration, with five empty slots for expansion.
- B. Four independent 1TB NAS devices.
- C. An iSCSI SAN containing five 1TB SATA drives in a RAID 5 configuration, with five empty slots for expansion.
- D. Attaching a DAS to one of the existing servers, containing nine 300GB SAS drives in a RAID 5 configuration, with a hot spare drive.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 344

Which of the following is a benefit of having up-to-date firmware on an iSCSI adapter?

- A. Allows TOE to be implemented the same way regardless of vendor.
- B. Addresses any security vulnerabilities found in a particular TOE implementation.
- C. The adapter can easily FIP with the forwarder.
- D. Reduces the very large changes to the networking stack.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 345

Which of the following backup methodologies is MOST likely used by a company that has monthly, weekly, and daily backup tapes?

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- A. Incremented Media Method
- B. Grandfather-Father-Son
- C. Towers of Hanoi
- D. Partial backups

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 346

Which of the following is true of SAS compared to SATA?

- A. The maximum cable length for SAS is 10 meters (32.8 feet) vs. 1 meter (3.28 feet) for SATA.
- B. SAS only supports hard drives and optical drives, while SATA also supports scanners and printers.
- C. SATA has a faster interface than SAS.
- D. SATA uses higher signaling voltages than SAS.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 347

Which of the following RAID levels stripes data across sets of disks and also mirrors those disks?

- A. RAID 1+0

- B. RAID 4
- C. RAID 5
- D. RAID 6

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 348

Which of the following can be described as taking a software application that would normally run on a local computer, and running the application as a remote web service?

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- A. Multicasting
- B. Cloud computing
- C. Broadcasting
- D. Distributed computing

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 349

Which of the following backup techniques is MOST likely to require the LEAST amount of data transfer during each backup cycle?

- A. File incremental
- B. Block incremental
- C. File differential
- D. Block differential

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 350

Which of the following would be required to connect to an FCoE SAN?



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- A. iSCSI adapter
- B. Converged network adapter
- C. Host bus adapter
- D. TOE-enabled adapter

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 351

Which of the following could be used to connect SAN devices via 10Gbit Ethernet WITHOUT relying on TCP/IP?

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- A. FC-SW
- B. iSCSI
- C. FCoE
- D. iFCP

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

answer is corrected.

QUESTION 352

Which of the following is an indication of acceptable storage array performance?

- A. High cache hit ratio
- B. Low MTTF
- C. Low buffer-to-buffer credits
- D. High I/O wait

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 353

When setting up replication for application spanning multiple LUNs, which of the following replication features should be utilized?

- A. Clone
- B. Snapshot
- C. Semi-synchronous Replication
- D. Consistency Group

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 354

Which of the following is the difference between a Tape Library and a Tape Auto-loader?

- A. A Tape Library supports a tape access door.
- B. A Tape Library supports multiple tape drives.
- C. A Tape Library supports a tape robot.
- D. A Tape Library supports multiple tapes.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 355

Which of the following requires a MINIMUM of three drives and can survive the loss of up to any two drives?

- A. RAID 1
- B. RAID 0+1
- C. RAID 5
- D. RAID 6

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 356

An IP-based datacenter is adding SCSI tape and disk assets to be used by multiple servers.
Which of the following will need to be added?

- A. Router
- B. Bridge
- C. GiGE switch
- D. 10/100 switch

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 357

Which of the following terms refers to the storage infrastructure as a whole?

- A. Fabric
- B. Connection
- C. SAN
- D. NAS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

answer is up-to-date.

QUESTION 358

Which of the following is the NATIVE capacity of an LTO-4 tape cartridge?

- A. 200 GB
- B. 400 GB
- C. 800 GB
- D. 1TB

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 359

Which of the following is the BEST media to quickly backup a portable 30 GB file?

- A. LTO
- B. Flash Drive
- C. DVD
- D. Blu-Ray

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 360

Which of the following is a meshed topology of server nodes, switches, and storage nodes?

- A. Arbitrated loop
- B. FCoTR
- C. Fabric
- D. Zone

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 361

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Given the below system requirements:

- Two Fabrics
- Each fabric has 4 switches, 1 core director and 3 edge switches
- A new storage array is being added
- HA environment that is fully redundant

Where would a storage administrator MOST likely place the storage and how many connections would the administrator need to connect the array to the environment?

- A. Connected to the core; all connections from the storage array controller 1 go to fabric A and controller 2 goes to fabric B.
- B. Connected to the edge switches; each controller has its connections balanced between all edge switches on both fabrics.
- C. Connected to the edge switches; controller 1 has its connections balanced between all edge switches on fabric A, controller 2 has its connections balanced between all edge switches on fabric
- D.
- E. Connected to the core; half of the connections to each storage array controller connects to each of the fabrics.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 362

Which of the following is recommended for mirroring data over long distances when the transaction rate is high and impact to the performance on the main site must be minimized?

- A. Replication Consistent
- B. Synchronous
- C. Symmetric
- D. Asynchronous

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 363

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Which of the following replication types is the FASTEST?

- A. Synchronous

- B. Asynchronous
- C. Incremental
- D. Differential

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 364

Which of the following would a company implement in order to ensure that critical system data backups are available in case the datacenter is lost due to a natural disaster?

- A. Snapshots
- B. e-vaulting
- C. OnsiteD2D
- D. OnsiteD2D2T

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 365

Which of the following provides a point-in-time, copy-on-write copy of storage data?

- A. RAID hot spare
- B. LUN Migration
- C. Clone
- D. Snapshot

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 366

An IT Administrator needs to have which of the following devices in order to share an FC storage

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system with multiple servers on a SAN?

- A. FC router
- B. FC switch
- C. FC hub
- D. FC HBA

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 367

After a cleaning person left the network room, one of the paths to the SAN from Server A is no longer working. The redundant path is working fine. The cables are all connected securely but the HBA fault light is on. The switch shows no light on that port. Which of the following MOST likely occurred?

- A. The HBA was unseated.
- B. The Ethernet connection was briefly lost.
- C. The ISL was broken.
- D. The cable was damaged

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 368

Which of the following Fibre Channel feature allows Virtual Machines to be seen individual^ on the fabric?

- A. VLAN
- B. Virtual Fabric
- C. NPIV
- D. Virtual Storage

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

corrected.

QUESTION 369

A SAN administrator is troubleshooting a connectivity issue between a new server and a FC switch. The link is running at 8Gbps and uses a 90 meter (295 feet) optical cable. Which of the following is the FIRST item the administrator should check or perform?

- A. Upgrade the switch firmware to the latest level.
- B. Verify the cable is OM-3 and not OM-2
- C. Run a temporary cable to bypass a patch panel.
- D. Replace the server's host bus adapter.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 370

An administrator notices an occasional spike in disk IOPS beyond what the disks can handle. Worried about application performance, the administrator talks with users, but the effect seems to have gone unnoticed. Which of the following is MOST likely preventing the users from experiencing the effects of the spikes?

- A. Redundant Fabric
- B. Fiber Channel
- C. Inter-Switch Links
- D. Controller Cache

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 371

Which of the following technologies provides an abstraction of physical drives within a storage array?

- A. Fabric virtualization
- B. Disk virtualization
- C. SAN virtualization
- D. Server virtualization

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

valid.

QUESTION 372

Which of the following are requirements for having an ISL between two FC switches? (Select TWO).

- A. Both switches have to be the same model.
- B. The connecting ports need to be E-ports.
- C. The connecting ports need to be F-ports.
- D. Each switch has to have a unique domain ID.
- E. Both switches need to be running the same firmware level.

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 373

Which of the following features can automatically facilitate a vendor service call in the event of a SAN component failure?

- A. Predictive trending
- B. SMS alert to administrator
- C. Call home
- D. SNMP

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 374

In order to protect the storage area network, a new firewall has been installed at the company's datacenter. Once installed, all servers lost the remote storage and crashed. Which of the following will restore communication between the servers' network and the SAN?

- A. UDP port 6320 must be permitted between the two networks.
- B. TCP port 3260 must be permitted between the two networks.
- C. All servers must be configured to use hardware iSCSI initiators.
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- D. All servers must rescan the LUNs which have been masked by the firewall

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 375

An administrator would like to employ a strategy to use SAN space more efficiently. Data that has a high I/O and is accessed often should be moved to SSD and Fiber Channel drives while data accessed less often should be moved to the higher capacity SATA drives. Which of the following features describes this strategy?

- A. SAN snapshot
- B. Storage base lining
- C. Data tiering
- D. Capacity planning

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 376

Which of the following describes an ISL connection?

- A. Between an initiator and a target
- B. Between a specific node (NL-port) and an a switch
- C. From any Loop port within a Loop
- D. Between two fabric switches

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 377

Two single-port 2Gb HBAs can support up to which of the following?

- A. 200MB/S
- B. 320MB/S
- C. 400MB/S
- D. 4200MB/S

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 378

How many disks are required to create RAID 3 utilizing five data drives with a hot spare?

- A. 5
- B. 6
- C. 7
- D. 10

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 379

To provide increased storage availability, the system administrator purchased a storage array with two controllers. Which of the following is a reason a server would lose its storage when only one of the storage controllers fails?

- A. Improper multipathing configuration
- B. Hard zoning has been implemented
- C. The switch fabric is not redundant
- D. SCSI disks have not been properly terminated

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 380

An administrator would like to combine several ISLs into a single virtual connection. Which of the following technologies should be implemented to accomplish this?

- A. LUN Masking
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- B. Trunking

- C. Flow Control
- D. VLAN Trunking

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 381

An array has five drives, and each drive is 300GB in capacity. If an administrator applies RAID 5, which of the following is the usable capacity of the five drives?

- A. 600 GB
- B. 900 GB
- C. 1.2 TB
- D. 1.5 TB

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 382

When connecting power for switches and storage equipment with two or more redundant power supplies in a rack?

- A. Power supplies from a single component should be connected to the same PDU
- B. There should be a separate PDU for each device in the rack.
- C. Power supplies from a single component should be connected to different PDUs.
- D. Each rack should have only one PDU.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 383

Queue Depths can be defined as which of the following?

- A. A value of the FICON status menu
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- B. The number of pending SCSI commands
- C. A type of issue with large bandwidth
- D. The number of Layer 2 processes on the fiber

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 384

An administrator cannot get the initiator to discover an iSCSI target. The switch displays all green lights on the port but by moving the cable from one port on the switch to another, the initiator discovers the target. Which of the following is MOST likely the issue?

- A. Incorrect VLAN setting on the switch
- B. Switch port was shutdown
- C. Incorrect configuration of the target NIC
- D. Incorrect configuration of the initiator NIC

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 385

A host-based logical volume manager is used to migrate data from an old array to a newer one. The storage administrator has completed the physical connections, zoning, and masking, but the storage volumes from the new array are still not visible on the host. Which of the following steps should be performed NEXT?

- A. Change the HBA driver topology configuration

- B. Replace failed HBA
- C. Run fcping
- D. Bus rescan

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 386

One of the disks in a RAID 5 configuration on a NAS device has failed. Which of the following

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technologies would BEST allow a technician to replace the failed disk without interrupting service to the device?

- A. Fibre channel array
- B. Hot spare disk
- C. Disk enclosure
- D. Hot pluggable disk

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 387

A pair of SAN-attached servers will be clustered using host clustering, which of the following should the storage administrator do to support that configuration?

- A. Volumes should be mapped to one server and then the second server will provide redundancy
- B. Shared volumes should be mapped to both servers via a single storage interface.
- C. Storage volumes from separate storage arrays should be mapped to each server via separate fabrics.
- D. Shared volumes should be mapped to both servers via multiple storage interfaces.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 388

Which of the following cable types has the HIGHEST possible throughput?

- A. Single-mode fiber
- B. CAT6
- C. CAT5
- D. TwinAX

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 389

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Which of the following data security types would be used to enforce access management policies? (Select TWO)

- A. Disk encryption
- B. ACL
- C. Physical security
- D. Network encryption
- E. Checksums

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 390

An administrator would like to implement a storage appliance that is able to provide access to NFS mounts and CIFS shares. Which of the following solutions would MOST likely provide this type of access?

- A. vSAN
- B. iSCSI target
- C. FCoE SAN
- D. NAS

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 391

A security administrator wants to set up various alerts on critical systems to be sent to the administrator's email and cell phone. Which of the following options would need to be configured to ensure the delivery of those alerts?

- A. TFTP
- B. SMTP
- C. SNMPv1
- D. telnet

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 392

Data on a storage system was last replicated at 8: 00 AM and the storage system had a major failure at 9: 33 AM. The failure caused all changes to the data between 8: 00 AM and 9: 33 AM to be lost. The data loss was deemed acceptable based on the 2 hour:

- A. Mean Time to Data Loss (MTDL)
- B. Mean Time Between Failures (MTBF)
- C. Recovery Point Objective (RPO)

D. Recovery Time Objective (RTO)

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 393

Which of the following can be used to provide storage to multiple virtual servers through a single interface?

- A. Virtual fabric
- B. Virtual storage
- C. LVM
- D. NPIV

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 394

An administrator wants to select a SAN with high availability features. Which of the following would be MOST applicable to high availability?

- A. Hot swappable components
- B. Solid state drive support
- C. Snapshot support
- D. Email alerting

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

corrected and modified.

QUESTION 395

A new DAS populated with ten 160GB drives is in a RAID6 configuration. Which of the following is the usable disk space?

- A. 800MB
- B. 1.28TB
- C. 1.44TB
- D. 1.6TB

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 396

A server has two HBAs. Each HBA is connected to a fabric and zoned to the same storage array. HBA0 is passing traffic, while HBA1 is connected but not passing traffic. This is known as which of the following?

- A. Fully-pathed passive redundant
- B. Multipath active-active
- C. Single path active-passive
- D. Multipath active-passive

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 397

Which of the following ports is MOST commonly used with FC-AL?

- A. F-port
- B. N-port
- C. NL-port
- D. TE-port

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 398

An administrator is having trouble explaining the physical location of a LUN's data on an array to the company's CEO. The CEO has requested a visual representation of this data. Which of the following would be the BEST way for the administrator to show the data?

- A. GUI via Telnet
- B. GUI via SSH
- C. GUI via SNMP
- D. GUI via HTTPS

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 399

An 8Gb SAN switch port will autosense which of the following port speeds? (Select TWO).

- A. 1Gb
- B. 2Gb
- C. 4Gb
- D. 10Gb
- E. 16Gb

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 400

Which of the following has the ability to minimize CPU overhead?

- A. Jumbo Frames
- B. Class of service
- C. TOE
- D. VLAN

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 401

A technician is working with a storage array that has 15 total slots for hard drives. The technician is tasked with configuring two separate RAID 5 volumes of the same size, sharing a global hot spare. 1TB drives are the largest available for this model storage array. Using the 1TB drives, which of the following is the LARGEST raw volume size attainable?

- A. 6 TB
- B. 7 TB
- C. 7.5 TB
- D. 8 TB

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 402

An administrator has four drives, and each drive is 300GB in size. If the administrator applies RAID 6 to four drives, which of the following is the usable capacity of the four drives?

- A. 300 GB
- B. 600 GB
- C. 900 GB

D. 1.2 TB

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 403

An administrator has just replaced a single-port HBA and needs to complete zoning changes to replace the current alias. The administrator creates the new alias, adds it to the existing zone, and then deletes the old alias. When applying the new configuration, an error states that the original alias is not found and the configuration cannot be applied. Which of the following steps did the administrator miss?

- A. Create a new zone with the new alias and add it to the existing configuration
- B. Remove the original zone and recreate it with the new alias.
- C. Rename the original alias before deleting it.
- D. Remove the original alias from the zone before deleting it.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 404

In a redundant fabric configuration, which of the following is the MINIMUM number of single port HBAs that a server must have, to sustain a single fabric failure?

- A. 1
- B. 2
- C. 4
- D. 8

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 405

When implementing an HA fabric, which of the following is the MINIMAL requirement for running cables from each fabric to a storage unit?

- A. At least one connection to each array controller
- B. At least two connections to each controller port
- C. Attach fabrics to the same controller
- D. Separate protocols for each fabric are recommended

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Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 406

Which of the following cable types should be used to connect two storage arrays for replication if they are separated by a distance of 900 meters (2953 feet)?

- A. CAT6 Ethernet
- B. Multimode fiber
- C. Twin AX
- D. Single-mode fiber

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 407

Which of the following is used when interconnecting FC switches?

- A. HBA
- B. CAN

- C. ISL
- D. Trunking

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 408

Three phase power has been connected to a rack with a storage array. Which of the following would be best practice if each of the three phases were routed to independent Power Distribution Units (PDUs)? (Select TWO).

- A. Each PDU (Phase) should be consumed before moving to the next phase to preserve circuits.
- B. Three phase power is not supported with most Datacenter Class Equipment.
- C. To prevent phase imbalance, partnered power supplies should connect to the same PDU (Phase).
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- D. Each device should use two separate PDUs to ensure power redundancy.
- E. Each PDU (Phase) should be loaded equally where possible to balance the power.

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 409

In a storage array with four controller nodes and two PDUs per node, how many redundant circuits should be used at a MINIMUM?

- A. 2
- B. 4
- C. 8
- D. 16

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 410

When connecting a host from one fabric to a storage subsystem on another fabric, which of the following must be used to prevent the fabrics from merging?

- A. CNA
- B. Router
- C. VSAIMs
- D. Dual ports

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 411

Which of the following tools would be used to securely administer and configure various network devices?

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- A. Telnet
- B. HTTP
- C. SIMMFV1
- D. SSH

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 412

An administrator is adding replacement drives in a critical network operation center with a very low humidity reading of the following should the administrator do as

a precaution? (Select TWO).

- A. Wear an ESD strap
- B. Power the SAN off before replacing the new drives
- C. Lower the room temperature to compensate
- D. Ensure the SAN has proper power groundings
- E. Ensure the new drives are wrapped in antistatic bags

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

answer is valid.



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