

EMC

Exam Questions DES-1D12

Specialist - Technology Architect Midrange Storage Solutions Exam



NEW QUESTION 1

A customer has invested much time using the Dell PS Series Host Integration Toolkit (HIT) to integrate SAN snapshot protection with Microsoft SQL Server native snapshot technology. The customer expresses concern about whether Dell EMC SC Series cross-platform replication supports that capability. What should be your response?

- A. Recreate integration on the SC Series array and use only SC-to-SC replication for those volumes.
- B. Leverage the integration investment and use only PS-to-PS replication on those volumes.
- C. Cross-platform replication works with SC Series HIT integrations.
- D. Cross-platform replication works with PS Series HIT integrations.

Answer: B

NEW QUESTION 2

What is a key feature of the Dell EMC Future-Proof Storage Loyalty Program for Dell EMC SC Series arrays?

- A. 4:1 Performance Guarantee
- B. 4 Year Satisfaction Guarantee
- C. 4:1 Reduction Guarantee
- D. 4:1 Efficiency Guarantee

Answer: D

Explanation:

Dell EMC Flash Storage Efficiency Guarantee Dell EMC promises our flash arrays will provide a logical usable capacity at least four times the usable physical capacity of your purchased drives —or we'll give you more drives at no charge. <https://www.delltechnologies.com/en-us/blog/dell-emc-flash-storage-efficiency/>

NEW QUESTION 3

What is a characteristic of single-tier Flash on Dell EMC SC Series arrays?

- A. Supports both write-intensive and read-intensive SSDs in the same tier
- B. Snapshot data is kept on Tier1 in RAID 10 to optimize performance
- C. Read only data is migrated to lower tiers when a snapshot is taken
- D. Supports either write-intensive or read-intensive SSDs in the same tier

Answer: D

NEW QUESTION 4

What is a benefit of restoring data from a Dell EMC Unity snapshot?

- A. Can select which Consistency Group members have data restored
- B. Supports replication to up to 32 remote systems
- C. Enables efficient storage usage with 8 KB block granularity
- D. Does not require additional pool storage

Answer: D

NEW QUESTION 5

What is a benefit of cross-platform replication between Dell EMC SC Series and Dell PS Series arrays?

- A. Leverages existing interfaces
- B. Enables replication of volume collections
- C. Supports cascade mode for the PS Group
- D. Provides active snapshot replication

Answer: A

NEW QUESTION 6

You are designing a two-tiered Dell EMC SC Series solution that will be optimized for performance. You gather the necessary data from Live Optics and find that the read/write ratio is 80:20.

What approach is recommended?

- A. Size Tier 1 for 100% of the adjusted IOPS
- B. Use distributed adjusted IOPS for all tiers
- C. Use distributed adjusted IOPS for Tiers 1 and 2 only
- D. Size Tier 2 for 100% of the adjusted IOPS

Answer: A

Explanation:

"The engineer should design a system to handle all, or nearly all, IOPS in one particular tier"

NEW QUESTION 7

A customer site has four NAS servers participating in MetroSync replication. Which Dell EMC Unity feature could reduce failover times?

- A. QoS Failover Policy
- B. Cabinet Failover
- C. SRDF Metro
- D. Consistency Groups

Answer: B

NEW QUESTION 8

What is a feature of Dell EMC Unity unified snapshots?

- A. Delta set extension
- B. Copy on First Access
- C. Redirect on Write
- D. Copy on First Write

Answer: C

Explanation:

Reference; https://www.delltechnologies.com/en-ba/collaterals/unauth/white-papers/products/storage/h15089-dell_emc_unity-snapshots_and_thin_clones.pdf (7)

NEW QUESTION 9

What are the two biggest factors that determine IOPS when using SSDs in a Dell EMC SC Series array?

- A. Current latency and queue depth
- B. Application block size and overall throughput
- C. Multi-tenant arrays and tier configuration
- D. Read/write percentage and peak workload

Answer: B

Explanation:

The reason there is such a large range in the number of IOPS delivered by SSDs is the IOPS are truly dependent on the type of traffic the SC Series was designed to handle. The two biggest factors that will determine IOPS in an SSD environment are block size of the application and overall throughput.

NEW QUESTION 10

Match each Dell EMC Unity feature with its destination.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 10

Which file resources are supported with Dell EMC Unity asynchronous replication?

- A. File systems and LUNs
- B. LUNs and VMFS datastores
- C. NAS servers and NFS datastores
- D. Consistency Groups and file systems

Answer: C

NEW QUESTION 12

You are designing a Dell EMC Unity solution. You need to predict its expected performance based on workload, number o and type of drives, and RAID protection. Which design path on the Midrange Sizer should you take?

- A. System Designer path
- B. Application Oriented path
- C. Quick Configuration path
- D. Performance Data Input path

Answer: A

NEW QUESTION 13

You are upgrading a Dell EMC Unity array to a Dell EMC PowerStore 1000 T array. The customer asks what they need to do so they can map PowerStore snapshots from the new PowerStore array to a host. What should be your response?

- A. Create a volume group of the snapshot.
- B. Create a read/write snapshot of the snapshot
- C. Create a copy of the snapshot
- D. Create a thin clone of the snapshot

Answer: D

Explanation:

"Volume and Volume Group Snapshots: Snapshots cannot be mapped to a host. To view the contents of a snapshot, you must first clone the snapshot then map the clone to a host."

NEW QUESTION 17

A customer has a Dell EMC SC9000 array with six SC420 enclosures running SCOS 7.3. The enclosure configuration is as follows:

Two enclosures have write-intensive SSDs
Four enclosures have read-intensive SSDs
What is recommended as a general guideline for making spare drive assignments?

- A. 2 spare drives per shell
- B. Dedicated spares are not required
- C. 2 spares per drive type per array
- D. 1 spare per drive type per shell

Answer: B

Explanation:

"SCOS 7.3, Distributed Sparing: eliminates the need for dedicated spares by giving customers the option to distribute sparing capacity across all drives in the array."

NEW QUESTION 21

Match each term with its description.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Throughput = Sized by type and number of ports to handle traffic Latency = Time taken for an IO to be executed
IOPS = Amount IO generated by application Queue depth = IOS in buffer waiting to be executed

NEW QUESTION 22

Which Dell EMC SC Series array allows for back-end expansion cards?

- A. SCv3000
- B. SC7020
- C. SC5020
- D. SCv3020

Answer: B

Explanation:

<https://www.dell.com/support/manuals/en-us/storage-sc7020/sc7020-om/sc7020-series-storage-system-back-pan> Here we clearly have Each storage controller contains:[...] Expansion slots for I/O cards: Slots for optional front-end connectivity – Fibre Channel and iSCSI I/O cards Slots for optional back-end connectivity – SAS I/O cards [...] SCv3000, SCv3000 and SC5020 owner manual say: One expansion slot for a front-end I/O card:
<https://www.delltechnologies.com/de-at/collaterals/unauth/technical-guides-support-information/services/h1735>

NEW QUESTION 25

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