

Exam Questions DES-1D12

Specialist - Technology Architect Midrange Storage Solutions Exam

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NEW QUESTION 1

What provides data analytics for Dell EMC Midrange storage?

- A. eLab Advisor
- B. Unisphere Central
- C. DSM
- D. CloudIQ

Answer: D

NEW QUESTION 2

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 3

Which features were introduced in SCOS 7.3?

- A. Distributed Sparing and Live Volume ALUA
- B. Data-in-Place upgrade for SC4020 and 4K HDD support
- C. Unisphere for SC and Live Volume Auto-failover
- D. CloudIQ support and Cross Platform Replication

Answer: A

Explanation:

https://dl.dell.com/topicspdf/sc-7-3_rn_en-us.pdf

NEW QUESTION 4

An ISP needs a data storage solution that allows them to set policies over resource usage. The solution needs to support network multi-tenancy while also providing full network failover protection.

What combination of Dell EMC SC Series features meets these requirements?

- A. Thin Replication and Storage Profiles
- B. VLAN Tagging and QoS
- C. Multi-protocol and Live Volume
- D. Replication and vVols

Answer: C

NEW QUESTION 5

At what granularity are blocks deduplicated on a Dell EMC PowerStore array?

- A. 4 KB
- B. 8 KB
- C. 32 KB
- D. 64 KB

Answer: A

Explanation:

<https://www.delltechnologies.com/resources/en-us/asset/white-papers/products/storage/h18151-dell-emc-powers> Deduplication uses algorithms to analyze, perform pattern detection, and attempts to store only a single instance of data. In general deduplication can work at the block, bit-level, or file level. In PowerStore, deduplication works at the block level at 4 KB granularity.

NEW QUESTION 6

What is the minimum recommended amount of Flash capacity in a Dell EMC Unity 880 Hybrid pool?

- A. 5%
- B. 8%
- C. 10%
- D. 15%

Answer: A

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

From which Dell EMC storage system can a Dell EMC PowerStore array natively import data?

- A. VNX
- B. PowerVault
- C. VMAX
- D. VNX2

Answer: D

NEW QUESTION 9

You plan to schedule a Live Optics sampling with your customer to size a Dell EMC SC Series array. However, the customer wants to postpone the run until the end of the quarter because there could be more activity on the current storage system. What course of action is recommended?

- A. Wait until the end of the quarter and collect a week-long sampling
- B. Take a single-day sampling on any given day because that is sufficient in most instances
- C. Wait until the end of the quarter and collect a single-day sampling
- D. Take a week-long sampling on any given week because that is sufficient in most instances

Answer: B

NEW QUESTION 10

Which Dell EMC Midrange storage platforms support NVMe SCM drives?

- A. PowerStore T and SC Series only
- B. PowerStore T and PowerStore X
- C. PowerStore T, Unity XT, and SC Series
- D. PowerStore X, Unity XT, and SC Series

Answer: B

NEW QUESTION 10

A customer asks you about the maximum load of their new Dell EMC SC Series array. Which term should you use in response?

- A. MB
- B. IOPS
- C. CPU Cycles
- D. Latency

Answer: B

NEW QUESTION 12

Which Dell EMC Unity feature provides network high availability with active-passive ports when provisioning File storage for a NAS client?

- A. Redundant Interfaces
- B. Preferred Interfaces
- C. Link Aggregation
- D. Fail-safe Networking

Answer: D

Explanation:

Document: docu71319_dell-emc-unity-high-availability-a-detailed-review.pdf

Page: 20 FAIL SAFE NETWORKING (FSN) Dell EMC Unity OE version 4.2.1 introduces Fail Safe Networking (FSN). FSN is a high availability feature that extends link failover into the network by providing switch-level redundancy. FSN appears as a single link with a single MAC address and potentially multiple IP addresses. FSN can consist of Ethernet ports, link aggregations, or any combination of the two. FSN adds an extra layer of availability to link aggregations alone as link aggregations provide availability in the event of a port failure while FSN provides availability in the event of a switch failure. Each port or Link aggregation is considered as a single connection and only the primary port or link aggregation in an FSN is active at a time. All ports in an FSN must have the same MTU size, but the speed and duplex settings can vary.

NEW QUESTION 17

Match each Dell EMC Unity feature with its destination.

Feature:

Definition:

Cascade replication	Moves hosts and attached file systems to a different SP
NAS server mobility	One-to-many asynchronous replication for a single file storage resource
MetroSync	Asynchronous replication of an already replicated resource to another tier
Fan-out replication	Native synchronous replication for the file resources

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Feature:

Definition:

Cascade replication	NAS server mobility
NAS server mobility	Fan-out replication
MetroSync	Cascade replication
Fan-out replication	MetroSync

NEW QUESTION 21

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 Sparring: eliminates the need for dedicated spares by giving customers the option to distribute sparing capacity across all drives in the array."

NEW QUESTION 24

Which Dell EMC Unity storage array models support NVMe?

- A. 380, 880, and 880F
- B. 680F, 880, and 880F only
- C. 680, 680F, 880, and 880F
- D. 380, 380F, and 480F

Answer: C

Explanation:

<https://delltechnologies.techdata.nl/app/uploads/2019/02/dell-emc-unity-xt-selling-guide.pdf>

NEW QUESTION 28

Match each term with its description.

<u>Term:</u>	<u>Description:</u>
Throughput	Time taken for an IO to be executed
Latency	IOs in buffer waiting to be executed
IOPS	Amount of IO generated by an application
Queue depth	Sized by type and number of ports to handle traffic

- 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 30

In Dell EMC PowerStore storage, if the remote cluster has multiple appliances, then what automatically chooses the destination appliance for the resource?

- A. Performance Policy
- B. Resource Balancer
- C. Master appliance
- D. Source array

Answer: B

Explanation:

From the POWERSTORE ADMINISTRATION PARTICIPANT GUIDE,
 " Resource balancer also considers the the following when placing volumes:
 Whether the appliance is offline Appliance failure status Capacity utilization

NEW QUESTION 35

A Dell EMC Unity storage administrator needs to build a NAS server configuration to support failover between SPs and NAS resources. What is a term for this configuration?

- A. Local Replication
- B. IP Multi-tenancy
- C. LACP
- D. Separate IP Switches

Answer: A

NEW QUESTION 37

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 38

A customer configures their Live Volume setup for synchronous replication with the High Availability option. They are designing a DR resiliency plan to ensure data integrity in the event of data corruption.

Which Dell EMC SC Series technology should you use?

- A. Live Volume with Non-Uniform Presentation
- B. Live Volume with Uniform Presentation
- C. Synchronous Replication with High Consistency
- D. Live Volume with Managed Replication

Answer: D

NEW QUESTION 40

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