

## Exam Questions DES-1D12

Specialist - Technology Architect Midrange Storage Solutions Exam

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#### NEW QUESTION 1

For Dell EMC SC Series arrays, what is the minimum percentage of total system IOPS that should be applied to Tier 3 drives?

- A. 15%
- B. 20%
- C. 25%
- D. 100%

**Answer: B**

#### Explanation:

"As a standard, tier 3 drives should encompass a minimum of 20% system IOPS potential."

#### NEW QUESTION 2

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 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

A Dell EMC PowerStore customer wants to schedule snapshots daily at 6 AM. Which snapshot frequency interval (in minutes) is available?

- A. 5
- B. 10
- C. 20
- D. 45

**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

What component or feature is provided by both the Dell EMC PowerStore 1000T array and the Dell EMC Unity XT 380 Series array?

- A. Container Integration
- B. Configured Block with Hypervisor
- C. Unified System

D. NVMe disks

**Answer:** C

**Explanation:**

"When positioning the 380 and 380F, keep in mind that they are not NVMe-ready and will not be upgradeable to support NVMe in the future."

**NEW QUESTION 8**

Which QoS options are supported by Dell EMC Unity XT?

- A. VMFS Datastore and Storage Pool
- B. iSCSI and Attached Snapshot
- C. Individual LUN and iSCSI
- D. Individual LUN and Group LUN

**Answer:** D

**NEW QUESTION 9**

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 10**

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

**NEW QUESTION 10**

A storage administrator wants to do a tech refresh from a legacy EQL system to a new Dell EMC SC Series array. What is needed to correctly size the new array?

- A. Latency
- B. Peak IOPS information
- C. Storage tiers
- D. Contract support end date

**Answer:** B

**Explanation:**

<https://downloads.dell.com/manuals/common/sc-series-performance-availability-best-practices-dell-emc-4024-b>  
Sizing an SC Series array for performance requirements - pag.9)

**NEW QUESTION 15**

To which bus is the Dell EMC Unity 880F DPE connected?

- A. 49
- B. 89
- C. 99

**Answer:** D

**Explanation:**

The DPE on 480/F, 680/F, and 880/F systems is internally connected to Bus 99 which is a separate bus than the first SAS expansion port that is connected to Bus 0. Therefore, the DPE is recognized by the system as Bus 99 Enclosure 0 while the first DAE connected to the first SAS expansion port would be Bus 0 Enclosure 0. This is different than X00/F, X50F, and 380/F systems. Furthermore, this means that the twenty-five drives in front of the DPE for 480/F, 680/F, and 880/F systems are internally recognized as Bus 99 Enclosure 0 Drive 0 – Bus 99 Enclosure 0 Drive 24. In Unisphere, the drives are seen DPE Drive 0 –DPE Drive 24

**NEW QUESTION 16**

The last two drive slots in a Dell EMC PowerStore 3000 are reserved for which type of drive?

- A. SAS SSD
- B. NVMe NVRAM
- C. NVMe SSD
- D. NVMe SCM

**Answer:** B

**NEW QUESTION 20**

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 25**

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 30**

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 35**

A Dell EMC Unity storage administrator has 10 hosts. One of the hosts experiences occasional, huge IO bursts. What is a best practice for avoiding performance issues during these burst periods?

- A. Enabling Quality of Service (QoS) will limit the burst problem
- B. Quality of Service (QoS) is enabled by default, so one only needs to configure burst settings
- C. Enable Quality of Service (QoS) then limit I/O for the entire FC port
- D. Enable Quality of Service (QoS) then configure burst settings

**Answer:** D

**NEW QUESTION 38**

You are designing a Dell EMC Unity solution. You need to predict its expected performance based on workload, number 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 41**

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 42**

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