

## DES-1D12 Dumps

# Specialist - Technology Architect Midrange Storage Solutions Exam

<https://www.certleader.com/DES-1D12-dumps.html>



**NEW QUESTION 1**

A customer requests a proposal for a new Dell EMC SC Series storage system with the following specifications:

- IO type: Random
- Existing data: 100 TB
- Rate of change: 2 TB per day
- Growth rate: 100 GB per day
- Snapshot retention: 1 week

What storage capacity should be specified to scope the system with Tier 1 RAID 10 protection?

- A. 2.5 TB
- B. 4.5 TB
- C. 6.5 TB
- D. 8.5 TB

**Answer: C**

**NEW QUESTION 2**

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

**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**

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 5**

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 6**

In vCenter, what is the correct order of steps to create a VM in a storage container provisioned on a Dell EMC PowerStore system?

Create vVol datastore	Step 1
Provision VMs based on vVol datastore	Step 2
Create VM Storage Policies	Step 3
Configure PowerStore connectivity	Step 4
Add PowerStore Cluster as VASA Storage Provider	Step 5

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

STEP1:VASA  
STEP2 :POWERSTORE CONNECTIVITY  
STEP3:Create vvol datastore STEP4:create vm storage policies  
STEP5:Provision VMs based on vvol datastore

**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**

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 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 are characteristics of D@RE on a Dell EMC Unity array?

- A. Impacts array only during implementation Has minimal impact on performance
- B. Does not impact array during implementation Has some impact on performance for a moment
- C. Impacts array for a moment after implementation Has no impact on performance
- D. Does not impact array during implementation Has minimal impact on performance

**Answer:** D

**Explanation:**

controller-based D@RE has minimal performance impact for typical mixed workloads, and no impact to other Dell EMC Unity data services due to the level at which the encryption is performed, which is after all data services have been applied.

<https://www.delltechnologies.com/en-us/collaterals/unauth/white-papers/products/storage/h15090-dell-emc-unit>

**NEW QUESTION 10**

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 14**

When sizing a Dell EMC Unity Hybrid array, what are considerations for performance?

- A. Workload and hardware bottlenecks
- B. Active data and load balancing
- C. Drive size and component redundancy
- D. General capacity and port utilization

**Answer: A**

**NEW QUESTION 18**

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 19**

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 22**

You are designing a Dell EMC PowerStore solution with a customer. They ask if they can populate Slots 0 to 10 with NVMe SSD drives. What should be your response?

- A. Any drive type can be populated in the remaining slots
- B. NVMe SSDs must be populated in the remaining empty slots
- C. NVMe SCM drives are required in Slots 0 through 10
- D. NVMe SCM drives must be populated in the remaining empty slots

**Answer: B**

**NEW QUESTION 24**

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 28**

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 29**

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 consists 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 33**

When sizing a Dell EMC Unity Hybrid array, what are considerations for growth?

- A. Port utilization and load balancing
- B. Cache utilization and hardware bottlenecks
- C. Latency and queue depth
- D. General capacity and active data

**Answer:** D

**Explanation:**

Considerations for capacity growth

(click) Overall growth vs active data growth

(click) Moving or expanding "hot blocks" of active data Longer term planning for growth

**NEW QUESTION 34**

Match each Dell EMC Unity feature with its destination.

<u>Feature:</u>	<u>Definition:</u>
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:**

<u>Feature:</u>	<u>Definition:</u>
Cascade replication	NAS server mobility
NAS server mobility	Fan-out replication
MetroSync	Cascade replication
Fan-out replication	MetroSync

**NEW QUESTION 39**

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 41**

What is a characteristic of tenant traffic on a Dell EMC Unity array?

- A. Separated by the associated VLANs at the Linux Kernel layer
- B. Separated by the associated subnet providing data separation with increasing security at the network layer
- C. Separated by one associated VLAN providing data separation with increasing security at the Linux Kernel layer
- D. Separated by the associated subnet at the Linux Kernel layer

**Answer:** A

**NEW QUESTION 46**

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 51**

When designing a Dell EMC SC Series system, which factors regarding general performance are important to understand?

- A. Write size and latency
- B. Block size and read size
- C. Latency and queue depth
- D. Transport and queue depth

**Answer:** C

**Explanation:**

"Whether gathering information or designing a system, it is important to understand two commonly used terms: Latency and queue depth"

**NEW QUESTION 55**

What is the purpose of the NVMe NVRAM drives in a Dell EMC PowerStore 9000 array?

- A. Read cache and vaulting
- B. Read cache and base OS
- C. Write cache and base OS
- D. Write cache and vaulting

Answer: D

**NEW QUESTION 59**

Match each term with its description.

Term:	Description:
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 61**

Recent legislation requires a government customer to enhance data security by utilizing D@RE with SED drivers and use Level 3 certified security. Which KMS product should be recommended for use with Dell EMC SC Series arrays?

- A. Dell EMC CloudLink
- B. StorSecure StorMagic
- C. Gemalto SafeNet K460
- D. Thales Vormetric VTE

Answer: C

**NEW QUESTION 62**

How are vVol datastores mounted in Dell EMC PowerStore storage during the creation of vVol datastores in the vSphere environment shared by ESXi hosts?

- A. Volume Groups
- B. Storage containers
- C. Storage Groups
- D. VMFS datastores

Answer: B

**Explanation:**

A storage container is used to present vVol storage from a PowerStore cluster to vSphere. vSphere mounts the storage container as a vVol datastore and makes it available for VM storage. When a PowerStore cluster is used to provide VM storage, user VMs should be provisioned on the vVol datastores. The default storage container is mounted automatically on the nodes of the cluster.

**NEW QUESTION 65**

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 70**

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