

## 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

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 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

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 NMVe in the future."

#### 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 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 9

Which feature helps to enable file service High Availability on Dell EMC PowerStore?

- A. NAS Network Heartbeat
- B. RAID protected disk drives
- C. Multiple redundant network ports with system bond
- D. Redundant nodes with Live Volume enabled

**Answer:** A

#### 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 customer wants to provision a file system while creating a NAS server in a Dell EMC PowerStore T system. What information is needed to create the NAS server?

- A. FQDN
- B. Subnet
- C. DNS details
- D. WWPN

**Answer:** C

**Explanation:**

The NAS server DNS can be enabled on the next page. For Directory Services, DNS configuration is required. Add at least one DNS server for the domain.

#### NEW QUESTION 11

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 16

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 18

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 23

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 25**

Match each Dell EMC Unity feature with its destination.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**NEW QUESTION 27**

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 29**

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 32

How many PCI-E lanes are provided for Slot 0 and Slot 1 in Dell EMC Unity XT arrays?

- A. 8 for Slot 0; 8 for Slot 1
- B. 16 for Slot 0; 16 for Slot 1
- C. 8 for Slot 0; 16 for Slot 1
- D. 16 for Slot 0; 8 for Slot 1

**Answer:** D

#### NEW QUESTION 37

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 42

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 44

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 46

What is a consequence of using an 800 GB drive and five 400 GB drives in a Dell EMC Unity XT dynamic pool?

- A. Extents 9 – 14 are used to create a RAID Group
- B. Unisphere short strokes the 800 GB drive to 8 extents
- C. Extents 9 – 14 are marked unavailable until more 800 GB drives are added
- D. Extents 9 – 14 are marked unavailable and can never be recovered

**Answer:** C

#### Explanation:

The entire capacity of a particular drive size is only available when the drive count within the drive partnership group for the drive in question matches or exceeds the stripe width plus one drive. It is not recommended to mix different size drives of the same type for this reason, unless an adequate number of drives are available to meet or exceed the stripe width plus one drive requirement  
h16289-dell\_emc\_unity-dynamic\_pools.pdf - Page 18-19

#### NEW QUESTION 51

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 54**

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 57**

What storage resources are affected with a refresh option on a Dell EMC PowerStore array?

- A. Thin clones and volumes only
- B. Snapshots, thin clones, and volumes
- C. Thin clones, volumes, and replicas
- D. Thin clones and snapshots only

**Answer:** A

**NEW QUESTION 61**

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 62**

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