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**Vendor:**EMC

**Exam Code:**DES-1D12

**Exam Name:**Specialist - Technology Architect  
Midrange Storage Solutions

**Version:**Demo

## QUESTION 1

Which QoS option is NOT supported by Dell EMC Unity XT?

- A. Attached Snapshot
- B. Individual or Group LUN
- C. VMFS Datastore
- D. iSCSI

Correct Answer: D

QoS – Rate limiting

Protect against “Noisy Neighbor”

- 

512 Limits

- 

More granular control

- 

Limit by IOPS, BW, or both

- 

Apply to:

- 

Individual LUNs

- 

Group of LUNs

- 

VMFS Datastores

- 

Attached Snapshots

- 

Can assign total limit to be shared among LUNs in Group

-

Can move LUN(s) to other QoS Policy

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## QUESTION 2

What occurs immediately before the write is acknowledged to the host in a Dell PowerStore 1000T?

- A. The peer node is updated
- B. Data is passed through the deduplication and compression logic
- C. I/O is saved within the node DRAM memory
- D. Information is stored on the nonvolatile media of the NVRAM drives

Correct Answer: C

Before the write is acknowledged to the host in a Dell PowerStore 1000T, I/O is saved within the node DRAM memory. This is done to ensure that the write operation is successful and so that the data is safely stored in the event of a power failure. The data is then passed through the deduplication and compression logic, and finally stored on the nonvolatile media of the NVRAM drives.

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## QUESTION 3

A customer is managing a Dell EMC SC7020 array running SCOS 7.2. The array is running out of capacity. The customer asks you to begin scoping the system for additional drives. What disk drive redundancy rule applies to 3.84 TB SSDs?

- A. Forced Dual Redundancy
- B. Default Dual Redundancy
- C. Default Single Redundancy
- D. Forced Non-Redundancy

Correct Answer: B

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## QUESTION 4

A Dell Unity XT 480F system ships with two embedded modules, one for each SP. What does the embedded module provide?

- A. A Fiber Channel connectivity
- B. Field service only
- C. CNA connectivity
- D. Management

Correct Answer: D

The embedded module in a Dell Unity XT 480F system provides management functionality for the system, such as control of the storage array, monitoring of system health and performance, and management of storage resources. This embedded module allows you to manage the system through an intuitive web-based interface or via command-line interface.

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#### QUESTION 5

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

Correct Answer: B

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#### QUESTION 6

A customer has implemented five new Dell PowerStore 1000T model arrays for remote office sites. The arrays are going to need more capacity than originally thought. What NVRAM considerations must be evaluated before adding the new capacity?

- A. Use the DSA ordering system to determine if more NVRAM is supported for the PowerStore model
- B. Another NVRAM is only needed if adding an expansion shelf
- C. The 1000T only supports two NVRAM modules
- D. Use the Dell PowerStore Manager UI to determine if more NVRAM is needed

Correct Answer: D

It's important to check if more NVRAM is needed before adding new capacity to ensure that the system has enough resources to handle the increased workload. The Dell PowerStore Manager UI can provide information on the current NVRAM usage and capacity, and can also be used to order additional NVRAM if needed.

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#### QUESTION 7

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

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

D. SCv3020

Correct Answer: B

<https://www.dell.com/support/manuals/en-us/storage-sc7020/sc7020-om/sc7020-series-storage-system-back-panel-view?guid=guid-ba3314b9-ddaf-4413-8a25-4bb66c2d421bandlang=en-us>

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/h17356-storage-config-sap-hana-tdi-sc-vg.pdf>

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### QUESTION 8

What is the maximum number of data drives that can be put in to a Dell PowerStore 1000T base enclosure?

A. 23

B. 21

C. 25

D. 24

Correct Answer: B

The maximum number of data drives that can be put in to a Dell PowerStore 1000T base enclosure is 21. The Dell PowerStore 1000T has a 2U form factor, and it supports a maximum of 21 drives in the base enclosure. The drives can be either SAS or NVMe, and it's important to keep in mind that the maximum capacity of the system depends on the type of drives that are used. It's important to note that the PowerStore 1000T supports up to 2 expansion shelves that can hold an additional 21 drives each, for a maximum of 63 drives in total. Also, the PowerStore 1000T supports up to 4 NVRAM modules that are used to cache metadata and improve performance.

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### QUESTION 9

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

Correct Answer: B

Reference: <https://www.dell.com/support/manuals/en-pk/powerstore/pwrstr-hwg/base-enclosure-component-overview?guid=guid-7914a554-6943-402e-bd38-3e893163657e&lang=en-us>

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#### QUESTION 10

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

Correct Answer: A

Reference: <https://www.delltechnologies.com/en-us/collaterals/unauth/white-papers/products/storage/h15093-dell-emc-unity-best-practices-guide.pdf>

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#### QUESTION 11

What is the minimum recommended amount of Flash capacity in a Dell EMC Unity 480 Hybrid pool?

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

Correct Answer: A

The minimum recommended Flash capacity is at least 5% of the pool capacity.

Reference:

<https://www.dell.com/support/kbdoc/en-pk/000010691/dell-emc-unity-difference-between-fast-cache-and-fast-vp-configurations-user-correctable>

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#### QUESTION 12

A company has a Dell Unity XT 880 at its Boston site providing file storage for a business production application. The company has a second remote site 8 km (5 mi) away in Cambridge. A third site is in New York (342 km (213 mi) from the Boston site).

How can the same production data be protected against system outage with a zero RPO and a maximum of 15 minutes RPO data recovery?

- A. Synchronous replicate from Boston to Cambridge. Asynchronous replicate from Boston to New York.

- B. Synchronous replicate from Boston to Cambridge Synchronous replicate from Boston to New York
- C. Asynchronous replicate from Boston to Cambridge Asynchronous replicate from Cambridge to New York
- D. Synchronous replicate from Boston to Cambridge Synchronous replicate from Cambridge to New York

Correct Answer: B

Synchronous replication will provide a zero RPO as all data is written to both the primary and secondary storage at the same time, which means any data written to the primary storage will be instantly available on the secondary storage. This configuration will ensure that the data is protected against system outage, and in case of any failure, the recovery time will be a maximum of 15 minutes as the data is already replicated to the secondary site.