



# DES-1D12<sup>Q&As</sup>

Specialist - Technology Architect Midrange Storage Solutions

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### QUESTION 1

What is the minimum RPO that can be configured on a Dell Unity XT block-asynchronous replication session?

- A. 5 minutes
- B. 60 minutes
- C. 1 minute
- D. 20 minutes

Correct Answer: A

The minimum RPO (Recovery Point Objective) that can be configured on a Dell Unity XT block-asynchronous replication session is 5 minutes. RPO is a measure of how much data can be lost in the event of a disaster, and it's typically measured in minutes. The lower the RPO, the less data can be lost. Block-asynchronous replication is a replication method that copies data blocks, rather than files, between the source and the target. The data is copied at regular intervals, and if a disaster occurs at any point in time, the data on the target will be no more than 5 minutes old. The shorter the RPO, the more frequently data is copied and the less data is at risk of being lost in case of a disaster. It's important to note that this is the minimum RPO for block-asynchronous replication, it can be set to a higher value if needed.

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### QUESTION 2

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.

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### QUESTION 3

What initiates an automatic NAS server failover to the peer SP?



- A. Network link failure
- B. Resource balancing algorithm
- C. Assisted internal migration
- D. SP hardware fault

Correct Answer: D

An SP hardware fault initiates an automatic NAS server failover to the peer SP in Dell Unity systems. This ensures that the NAS services remain available in case of hardware failure in one of the Storage Processors (SPs). The failover process is automatic and transparent to the hosts accessing the data, and it helps to maintain the high availability of the NAS services.

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#### QUESTION 4

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 5

What tabs are available on the Dell EMC PowerStore Manager Dashboard?

- A. Health. Overview. Performance, and Capacity
- B. Health, Efficiency. Performance, and Summary
- C. Performance. Efficiency, and Capacity only
- D. Performance. Overview, and Capacity only

Correct Answer: D

These categories are divided in tabs: Overview, Capacity, and Performance.

Reference: <https://volumes.blog/2020/05/07/what-is-powerstore-part-6-powerstore-user-interface/>

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### QUESTION 6

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

Correct Answer: B

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### QUESTION 7

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 8

What hardware is available on all Dell EMC Midrange storage?

- A. NVMe disks
- B. SEDs
- C. 1 GbE I/O modules
- D. 25 GbE I/O modules

Correct Answer: A

Dell is providing native support of NVMe to the midrange of the market, which improves performance. Reference:<https://www.datacenterknowledge.com/dell-emc/dell-launches-new-midrange-all-flash-enterprise-storage-arrays>

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#### QUESTION 9

Which optional I/O Module card type is supported for both Dell PowerStore T and Dell PowerStore X?

- A. 25GbE
- B. 8 Gb Fibre Channel
- C. 10GbEBaseT
- D. 32 Gb Fibre Channel

Correct Answer: C



Both Dell PowerStore T and Dell PowerStore X support the 10 GbE BaseT optional I/O module card type. This card provides 10 Gbps Ethernet connectivity and can be used to connect the storage array to a network. The other options are not supported by both models. 25 GbE and 32 Gb Fibre Channel are generally faster and used for high-performance systems, while 8 Gb Fibre Channel is an older standard, and not supported by Dell PowerStore T and Dell PowerStore X.

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#### QUESTION 10

A customer has a fully scaled-out Dell PowerStore T cluster and wants to ensure that PowerStore Manager is in a highly available configuration. How many instances of PowerStore Manager should be installed, and why?

- A. Four A customer should install one instance per appliance in the cluster
- B. Zero PowerStore Manager runs highly available by default
- C. Eight A customer should install one instance per node in the cluster
- D. Two PowerStore Manager needs at least two instances for a highly available configuration

Correct Answer: D

A fully scaled-out Dell PowerStore T cluster requires at least two instances of PowerStore Manager to ensure high availability. This is because the PowerStore Manager provides a centralized management and monitoring interface for the cluster, and having multiple instances of it allows for redundancy in case one instance becomes unavailable.

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#### QUESTION 11

A technical architect is helping a customer prepare for a data center maintenance window. All applications must failover to the disaster recovery site. The customer also wants to test their disaster recovery plan.

What PowerStore Manager replication option should be used to address the customer's need, and from which site should the option be run?

- A. Planned failover from target site
- B. Planned failover from source site
- C. Failover from target site
- D. Failover from source site

Correct Answer: B

In this scenario, the customer wants to test their disaster recovery plan and wants all applications to failover to the disaster recovery site. To accomplish this, the technical architect should use the planned failover option from the source site, the primary site. This will allow the customer to test their disaster recovery plan and ensure that all applications can be successfully failed over to the disaster recovery site. It's important to note that if the customer wants to failover to the disaster recovery site for maintenance and after that fail back to the primary site, the planned failover should be run from the target site.

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#### QUESTION 12



Which Dell EMC Midrange solution is configured for block storage with a built-in hypervisor?

- A. Unity XT
- B. PowerStore X
- C. SC 9000
- D. PowerStore T

Correct Answer: B

The PowerStore X model configuration provides a hypervisor layer in addition to block storage. Reference: <https://www.dell.com/support/manuals/en-pk/powerstore-9000/pwrstr-v12n/virtualization-architecture-and-configuration?guid=guid-cd3afd8a-aaba-43f5-b80c-c14b844b50b8&lang=en-us>

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### QUESTION 13

What is a best practice for host connectivity on Dell EMC PowerStore?

- A. HBAs must be attached to a dual fabric and multi-path software is required
- B. Requires multipath software and one HBA
- C. Host must be directly attached, but there is no requirement for multipath software
- D. Requires multipath software and iSCSI

Correct Answer: D

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### QUESTION 14

Which describes the Dell Unity XT MetroSync replication topology?

- A. A source block resource replicating synchronously from Site A to Site B and replicating synchronously from Site A to Site C
- B. A source file resource replicating synchronously from Site A to Site B and replicating asynchronously from Site A to Site C
- C. A source file resource replicating synchronously from Site A to Site B and replicating synchronously from Site A to Site C
- D. A source block resource replicating synchronously from Site A to Site B and replicating asynchronously from Site A to Site C

Correct Answer: C

Dell Unity XT MetroSync replication topology is a multi-site replication solution that allows you to replicate data synchronously between two or more Unity XT systems. In this topology, a source file resource is replicated synchronously from Site A to Site B, and also replicated synchronously from Site A to Site C. This means that data is written to the primary site and immediately replicated to the secondary site, ensuring that both sites have an exact copy of the data at all times. This type of topology is useful in cases where data loss is not acceptable and a zero RPO is



needed. This topology ensures that the data is fully protected and that the environment is highly available, as in case of a primary site failure, the secondary site can take over.

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#### QUESTION 15

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

Correct Answer: D

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-unity-data-at-rest-encryption.pdf>

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