



E10-001^{Q&As}

Information Storage and Management Exam Version 2

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QUESTION 1

What is a characteristic of target-based inline deduplication?

- A. Deduplication processing occurs on the client before backup data is sent to the backup device
- B. Backup data is stored on the backup device and then deduplication is performed
- C. Changes must be made in the backup software to implement deduplication
- D. Deduplication processing occurs at the backup device before it is stored on the backup device

Correct Answer: D

QUESTION 2

An application generates 4200 small random I/Os at peak workloads with a read/write ratio of 2:1.

What is the disk load at peak activity for a RAID 6 configuration?

- A.
2,800
- B.
5,600
- C.
8,400
- D.
11,200

Correct Answer: D

QUESTION 3

Which data deduplication method increases the chance of identifying duplicate data even when there is only a minor difference between two documents?

- A. Variable-length segment
- B. Single-instance
- C. File level



D. Fixed-block

Correct Answer: A

Data Deduplication Methods

File-level deduplication (also called single-instance storage) detects and removes redundant copies of identical files. It enables storing only one copy of the file; the subsequent copies are replaced with a pointer that points to the original file.

File-level deduplication is simple and fast but does not address the problem of duplicate content inside the files. For example, two 10-MB PowerPoint presentations with a difference in just the title page are not considered as duplicate files,

and each file will be stored separately.

Subfile deduplication breaks the file into smaller chunks and then uses specialized algorithm to detect redundant data within and across the file. As a result, subfile deduplication eliminates duplicate data across files. There are two forms of

subfile deduplication: fixedlength block and variable-length segment. The fixed-length block deduplication divides the files into fixed-length blocks and uses a hash algorithm to find the duplicate data. Although simple in design, fixed-length

blocks might miss many opportunities to discover redundant data because the block boundary of similar data might be different. Consider the addition of a person's name to a document's title page. This shifts the whole document, and all the

blocks appear to have changed, causing the failure of the deduplication method to detect equivalencies. In variable-length segment deduplication, if there is a change in the segment, the boundary for only that segment is adjusted, leaving the

remaining segments unchanged.

This method vastly improves the ability to find duplicate data segments compared to fixed-block.

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QUESTION 4

What accurately describes a VSAN?

- A. A logical fabric on an FC SAN that enables communication among a group of nodes
- B. A logical fabric on an FC SAN that has a 1-to-1 relationship with a zone in the FC SAN
- C. A logical fabric across FC SANs that aggregates the FC SANs to create a network pool
- D. A logical fabric across FC SANs that allows non-disruptive file mobility between the SANs

Correct Answer: A

QUESTION 5



What is a characteristic of EMC Atmos?

- A. Consolidates block, file, and object accesses in one solution
- B. Supports storage multitenancy
- C. Provides compute, storage, network, and virtualization products in one solution
- D. Provides source-based deduplication

Correct Answer: B

EMC Atmos supports object-based storage for unstructured data, such as pictures and videos. Atmos combines massive scalability with specialized intelligence to address the cost, distribution, and management challenges associated with vast amounts of unstructured data.

Atmos can be deployed in two ways: as a purpose-built hardware appliance or as software in VMware environments, where Atmos VE can leverage the existing servers and storage. The hardware appliance is comprised of servers (nodes)

connected to standard disk enclosures.

The rack includes a 24-port Gigabit Ethernet switch to provide internode communication.

The Atmos software is installed on each node.

Atmos VE enables users to exploit the power of Atmos in a virtualized environment. It can be deployed on a virtual machine in VMware ESXi hosts and configured with the VMware certified back-end storage.

Following are the key features offered by EMC Atmos:

-Policy-based management: EMC Atmos improves operational efficiency by automatically distributing content based on business policy. The administrator-defined policies dictate how, when, and where the information resides.

-Protection: Atmos offers two options to protect the objects, replication and Geo Parity:

Replication ensures that the content is available and accessible by creating redundant copies of an object at multiple designated locations.

Geo Parity ensures that the content is available and accessible by dividing objects into multiple segments plus parity segments and distributing them to one or more designated locations. -Data services: EMC Atmos includes the data services,

such as, compression, and deduplication. These features are native to Atmos and can be managed and accessed via a policy. -Web services and legacy protocols: EMC Atmos provides flexible web services access (REST/SOAP) for web-

scale applications and file access (CIFS/NFS/Installable File System/Centera API) for traditional applications.

-Automated system management: EMC Atmos provides auto-configuring, auto-managing, and auto-healing capabilities to reduce

administration and downtime.

-Multitenancy: EMC Atmos enables multiple applications to be served from the same infrastructure. Each application is securely partitioned and cannot access the other application's data. Multitenancy is ideal for service providers or large

enterprises that want to provide cloud computing services to multiple customers or departments allowing logical and secure separation within a single infrastructure. -Flexible administration: EMC Atmos can be managed via a graphical



user

interface (GUI) or command line interface (CLI).

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